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OF

INTERNATIONAL METEOROLOGY

FOR THE MONTH OF JULY and August 1882.

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WASHINGTON, D. C.:
AUGUST, 1883.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 1, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.97	761.3	77.0	25.0	76	sw.			4		2			0	0	fair	Bouvier.
Algiers			29.99	761.8	76.6	24.8	80	ne.			2		2			0	0	fair	Nicolas.
La Calle			29.98	761.5	83.8	28.8	73	nnw.			1		0			0	0	clear	Fonfrède.
Tunis			29.98	761.6															Jacques.
Saida			30.07	763.7	88.5	31.4	31	ne.			1		1			0.008	0.2	very fair	Perès.
Tebessa			30.05	763.2	82.8	28.2	33	ssw.			1		3			inap.	inap.	pretty fair	Derché.
Geriville					93.2	34.0	10	sw.			2		1			0.075	1.9	very fair	Lonchamp.
Laghouat			30.08	763.9	96.8	36.0	38	w.			8		7			0	0	cloudy	Abraham.
Biskra			30.06	763.5	97.5	36.4	21	se.			1		7			0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	29.95	760.7	30.04	763.0	50.1	10.1	85	n.	14	6.3			9			0.01	0.3	squally	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.26	743.1	29.79	756.6	68.0	20.0	84	w.			2		10			1.748	44.4	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.15	740.4	29.89	759.3	67.6	19.8	61	ene.	6.3	2.8			10			0.024	0.6		Dr. Wierzbiski.
Eperies	29.02	737.0	29.86	758.4	70.9	21.6	64	calm			0		10 s			0.197	5.0		Julius Mikolik.
Gratz	28.60	726.5	29.81	757.1	68.0	20.0	87	se.			2		10			1.244	31.6	thunder	Andreas Rospini.
Hermannstadt	28.41	721.6	29.73	755.2	85.3	29.6	50	s.			2		5			0.323	8.2		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.54	725.0	29.87	758.6	58.3	14.6	96	ne.			1		10			1.894	48.1	raining.	The Staff.
Lemberg	28.87	733.4	29.82	757.4	71.2	21.8	58	n.			2		8			0.268	6.8		Dr. T. Stanecki.
Pola	29.71	754.5	29.81	757 2	73.8	23.2	72	wnw.			1		10			0	0		I. R. Hydrographic Office.
Szathmar	29.35	745.4	29.79	756.6	80.6	27.0	43	sw.			1		4			0.217	5.5		Joseph Midlinszay, S. J.
Szegedin	29.50	749.3	29.76	756.0	81.5	27.5	55	s.			1		5			1.079	27.4		Karl Staucel.
Trieste	29.73	755.1	29.83	757.7	79.9	26.6	55	calm			0		10			0.890	22.6		Royal Academy.
Vienna	29.17	749.9	29.87	758.8	61.7	16.5	94	n.			1		10			1.350	34.3		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.00	762.0	30.10	764.5	56.1	13.4	74	sse.	17	7.6			1			0	0	blue sky	W. Boswell
Armagh, Observatory	29.91	759.7	30.13	765.3	65.4	18.6	79	sw.	6	2.7			10					misty	S. Oall.
Bidston, Liverpool Obs'y			30.09	764.3	63.3	17.4	76	w.	7	3.1			7					misty	John Hartnup.
Bolton, Sharples	29.60	751.8	30.12	765.0	69.6	20.9	54	sw.					8					misty	Thomas Mackereth, ton.
Bradford, Yorkshire	29.70	754.4	30.10	764.5	63.8	17.7	59	ne.			2		1			0.29	7.4	blue sky	McLandsborough & Pres
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	83.0	28.3	70	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			30.08	764.0	66.0	18.9	66	ne.			0.6		1					blue sky	John McLaren.
Chatham, School M. E.	29.99	761.7	30.12	765.0	59.8	15.4	87	ne.			1		5					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.91	759.7	30.14	765.5	67.1	19.5	71	nw.			1		9					misty	The Staff.
Fort Napier, Natal	27.86	707.6	30.08	764.0	69.0	20.6	47	e.			2		0					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.71	754.6	29.94	760.5	84.0	28.9	79	nw.			1		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.97	761.2	30.02	762.5	79.5	26.4	73	e.			2		5					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	29.87	758.7	30.07	763.8	67.0	19.4	56	n.			1		0					misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.93	760.2	30.09	764.3	68.9	20.5	57	nne.			1		0					blue sky	The Staff.
Guernsey	29.86	758.4	30.15	765.8	63.0	17.2	83	nne.			1		10					foggy	A. Collenette, F. M. S.
Kew, Observatory	30.07	763.8	30.11	764.8	67.3	19.6	52	ne.	8	3.6			2					blue sky	The Staff.
Leicester, Museum	29.85	758.2	30.10	764.5	61.6	16.4	80	ne.			1		0					blue sky	J. C. Smith.
Malta, Mediterranean	29.93	760.2	30.00	762.0	87.0	30.6	49	se.			2		0						I. H. Whysall.
Nassau, Bahamas	30.15	765.8	30.20	767.1	86.5	30.3	70	s.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.60	751.8	30.12	765.0	66.2	19.0	48	ene.			2		1					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.89	759.2	30.12	765.0	65.2	18.4	73	nne.			1		1					blue sky	The Staff.
Plymouth	30.04	763.0	30.11	764.8	65.2	18.4	81	ssw.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			30.09	764.3	56.8	13.8	77						0					blue sky	Rev. C. Clouston, L. L.D
Scutari Cemetery, Turkey	29.81	757.2	29.87	758.7	86.8	30.4	47	ne.			1		0					blue sky	W. H. Lyne.
Sheffield	29.84	757.9	30.12	765.0	66.9	19.4	77	e.			1		1			0.01	0.3	blue sky	W. F. Cooper.
Silloth Rectory	30.05	763.3	30.08	764.0	70.8	21.6	59	wnw.			1		3			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.10	764.5	70.9	21.6	47	ene.	3	1.3			0					blue sky	Rev. S. J. Perry.
Straitfield Turgiss	29.90	759.4	30.12	765.0	69.8	21.0	60	ne.			1-2		6					d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.12	765.0	30.13	765.3	71	21.7	57	nw.			4		6					d. clouds	W. Newcombe.
Valencia, Observatory	30.12	765.0	30.14	765.5	61.3	16.3	85	wsw.	9	4.0			10					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.90	759.4	29.94	760.5	49	9.4	85	n.	6	2.7			10 n			0.470	11.9	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.95	760.7	30.01	762.2	52	11.1	86	n.	10	4.5		0	5 ks		n.	0.08	2.0	fair	G. A. Blair.
Father Point, Quebec*	29.95	760.7	29.97	761.2	55	12.8	83	se.	7	3.1			10 s		se.	0.03	0.8	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.23	742.4	30.06	763.5	47	8.3	93	n.	3	1.3		0	0			0.09	2 3	clear	James Stewart.
Halifax, N. S*	29.83	757.7	29.96	761.0	52	11.1	86	w.	8	3.6			10 n		n.	0.053	1.4	cloudy	A. Allison.
Kingston, Ontario*	29.24	742.7	29.57	751.1	55	12.8	96	ne.	6	2.7			10 n		ne.	0.13	3.3	light rain	A. P. Knight, M. A.
Montreal, Quebec*	29.53	750.0	29.73	755.1	53	11.7	96	e.	11	4.9			10 n			0.23	5.8	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	28.89	733.8	29.50	750.8	54	12.2	93	e.	9	4.0			10 n		se.	0.68	17.3	light rain	Rev. R. Mosley.
Port Dover, Ontario	28.92	734.6	29.59	751.6	63	17.2	94	w.	7	3.1		5 c	0	w.		0.72	18.3	fair	H. Morgan.
Port Stanley, Ontario	28.99	736.3	29.60	751.8	67	19.4	93	w.	12	5.4		0	5 k		nw.	1.19	30.2	fair	M. Payne.
Quebec, Quebec*	29.57	751.1	29.88	758.9	53	11.7	86	e.			1		8 n		ne.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.18	741.2	29.63	752.6	53	11.7	83	e.	6	2.7			10 s		se.	0.21	5.3	light rain	W. H. McIntyre.
Saugeen, Ontario*	28.88	733.5	29.59	751.6	49	9.4	90	w.	15	6.7			10 s			0.51	13.0	light rain	
St. Andrews, N. B	29.91	759.7	29.96	761.0	54	12.2	79	n.	6	2.7			10 n			0	0	cloudy	
Sydney, C. B*	29.75	755.6	29.82	757.4	49	9.4	93	n.	17	7.6			10 s			1.66	42.2	clearing	T. C. Hill, C. E
Toronto, Ontario*	29.21	741.9	29.58	751.3	58	14.4	96	calm	0	0			10 n		w.	0.47	11.9	threatening	Magnetic Observatory.
Yarmouth, N. S*	29.91	759 7	29.98	761.5	56	13.3	86	e.	2	0.9		3 ck	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.24	717.3	29.67	753.6	57.0	13.9	97	wnw.			7		10			0.060	1.5	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.95?	760.7?	30.20?	767.1?	53	11.7	93	nw.	2	0.9		0	0			2.40	61.0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.28	769.1	30.31	769.9	65.0	18.3	78	se.	11.0	4.9		0	1 k			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y.	30.13	765.3	30.17	766.3	57.2	14.0	87	nw.	9	4.0		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.77	756.1	29.79	756.7	70.3	21.3	95	e.	8.3	3.7			10 n			0.315	8.0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.04	762.9	30.08	764.1	59.7	15.4	45	sw.	9	4			0						Oversergent Fischer.
Fanöe	30.06	763.5	30.08	764.0	66.2	19.0	52	sse.			4		5						Overloerer Lauridsen
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.75	755.6	29.79	756.7	51.4	10.8	84	se.			4		8						A. O. Thorlacius.
Thorshavn	30.04	763.0	30.08	763.9	54.3	12.4	85	se.	7	3			10						Overloerer Bergh.
Vestervig	30.00	762.0	30.09	764.3	62.8	17.1	66	nw.			2		1						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.41	747.1	30.04	763.1	71.2	21.8	61	nnw.			1		k;kn		n.	0	0		M. Labroue, Director.
Alençon, Normal School	29.53	750.1	30.08	764.1	65.1	18.4	71	ne.			1		kn		e.	0	0		M. Nicot, Director.
Arras, Engineer School	29.82	757.4	30.08	763.9	60.6	15.9	80	ne.			2		8		ne.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.78	756.3	29.85	758.3	80.2	26.8	41	nnw.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.50	749.2	30.05	763.2	60.1	15.6	87	ene.			1		10			0.650	16.5	covered	M. Saillard, Director.
Beauvais, Normal School	29.83	757.6	30.05	763.3	63.7	17.6	59	nne.			1		2		nne.	0.012	0.3	slightly cld'y	M. Frère Eugène Marié.
Besançon, Normal School	29.04	737.5	29.99	761.8	71.4	21.9	72	nne.			1	0	2 kn			0.28	7.	slightly cl'dy.	M. Gobin, Director.
Bordeaux, Observatory	29.79	756.7	30.04	763.1	73.9	23.3	44	nnw.			1	0	5 k			0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.50	749.2	30.04	763.0	63.5	17.5	80	n.			1		n		n.	0.402	10.2		M. Malet, Director.
Brest, Naval Observatory	29.91	759.8	30.16	766.0	73.0	22.8	76	n.			1		8		n.	0	0	stormy	M. de Kermaree, Dir.
Caen, Normal School	30.13	765.4	30.21	767.3	66.7	19.3	60						10		n.	0	0	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.69	754.0	30.00	762.0	61.5	16.4	79	w.			2		10			0.102	2.6	covered	M. Jadot, Director.
Charleville, Normal School	29.50	749.2	30.00	761.9	69.1	20.6	41	n.			2					0	0		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.66	728.0	29.98	761.5	66.9	19.4	70	n.			2		8		nw.	0.681	17.3	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.15	740.4	29.98	761.4	65.5	18.6	75	nw.			2		4	n.		0.067	1.7		M. de Villemontée, Dir.
Commercy, Normal School	29.17	740.8	30.01	762.3	64.2	17.9	76	wnw.			3		10 kn	wnw.	wnw.	0.130	3.3	covered	Dr. Coulet, Director.
Gap, Normal School	27.30	693.3	29.71	754.6	77.0	25.	37	ne.			2	3	6 kn		w.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.74	730.0	29.81	757.2	78.4	25.8	31	nw.			4		2		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.14	740.1	29.89	759.2	64.8	18.2	80	wnw.			2		10 kn			0.059	1.5	raining	M. Ablard, Director.
Guéret, Normal School	28.45	722.5	29.98	761.6	64.4	18.	71	ne.			2	0	5 kn		sw.	0	0	cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.82	757.4	30.09	764.3	56.3	13.5	94	n.			1		5		n.	0	0	misty	M. Ollitrault, Director.
Lescar, Normal School	29.49	749.0	30.04	763.0	68.9	20.5	55	wnw.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.02	762.4	30.12	765.0	76.6	24.8	61	calm			0		8		calm	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.93	734.7	29.96	761.0	63.0	17.2	78	nnw.			2		8	nne.	n.	0.063	1.6	very cloudy	M. André, Director.
Mans, Normal School	29.83	757.6	30.12	765.1	79.7	26.5	54	e.			1		2		e.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.58	751.4	29.85	758.1	79.5	26.4	33	nw.			4		1		wnw.	0	0		M. Stephan, Director.
Montlouis	24.88	631.9	29.72	754.9	57.6	14.2	51	nw.	16.8	7.5			4	n.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.74	755.4	29.87	758.6	81.3	27.4	44	nw.			3		5		nw.	0	0	cloudy	M. Galzin, Director.
Nancy, Normal School	29.22	742.1	29.98	761.4	65.8	18.8	70	wnw.			1		kn			0.024	0.6		M. Hasse, Director
Nantes, Observatory	29.98	761.5	30.14	765.6	68.7	20.4	68	nne.			1–2	0	9 k;kn		nne.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.86	758.5	29.97	761.2	77.2	25.1	44	nw.	16.8	7.5			3		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.34	541.9			37.4	3.0		ne.			1		10		ne.	0.276	7.0	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.86	733.0	29.89	759.2	70.5	21.4	58	n.			3		2			0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.20	640.0			47.1	8.4	100	n.			3		10			1.028	26.1	covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.05	763.2	30.08	764.0	75.2	24.0	100	w.			1		8		w.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.93	760.1	30.13	765.4	67.1	19.5	77	nw.			1		10			0	0	covered	M. Mouillot, Director.
Rodez, Normal School	27.88	708.2	29.97	761.2	67.3	19.6	68	nw.			2		10		se.	0.094	2.4	covered	M. Seger, Director.
Rouen, Normal School	30.04	763.1	30.09	764.3	67.6	19.8	61	ne.			3		0			0	0	clear	M. Brotier.
Saint Maur, Observatory	29.90	759.5	30.07	763.7	68.7	20.4	49	n.			2		1		n.	0	0		M. Renou, Director.
Toulouse, Observatory	29.37	745.9	30.09	764.3	70.5	21.4	61	w.			2		8		nw.	0.051	1.3	very cloudy	M. Baillaud, Director.
Tours	29.91	759.0	30.08	764.1	67.6	19.8	72	n.			1		5		nne.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.59	751.5	30.08	764.0	66.6	19.2	51	ne.			2					0.039	1.0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.79	756.7	30.08	764.1	65.8	18.8	54	nnw.			2		0			0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.11	739.4	29.97	761.1	61.7	16.5	77	calm			0	0	5 k;s			0.532	13.5	heavy rain	Prof. Dr. Hoh.
Berlin	29.89	759.2	30.06	763.6	69.1	20.6	47	n.			2		8			0	0		Prof. Dr. Arndt.
Breslau	29.48	748.8	30.01	762.3	64.4	18.0	63	ene.			1		10			0	0		Royal University Obs'y.
Carlsruhe	29.54	750.2	29.97	761.1	63.7	17.6	88	ne.			1		10	ne.		0.374	9.5		Albert Senz.
Cassel	29.23	742.5	29.95	760.6	66.9	19.4	55	nw.			2		3	w.		0.087	2.2		Dr. H. Möhl.
Frankfort-on-the-Main	29.60	751.7	29.95	760.7	70.7	21.5	68	nw.			1		8			0.012	0.3		Physical Society.
Friedrichshafen	28.45	722.6	29.86	758.4	60.3	15.7	94	nne.			3		10	ne		0.209	5.3		Wilhelm, Chief Tel.
Hamburg	29.90	760.9	30.05	763.3	58.5	14.7	84	sse.			1		10			0.028	0.7		E. Preller.
Kiel	30.03	762.8	30.05	763.2	62.2	16.8	46	e.			2		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.52	749.9	29.93	760.3	69.4	20.8	62	ne.			2		7	ne.		0	0		H. Leppig, Asst.
Magdeburg	29.76	756.0	29.95	760.7	68.2	20.1	57	ene.			2	0	5 k;ks		ne.	0.004	0.1		Dr. Assmann.
Memel	30.04	763.0	30.09	764.2	60.4	15.8	46	nnw.			4	2 cs	0						Issermann.
Munich	28.13	714.4	29.98	761.6	61.3	16.3	79	e.			3		9	e.	e.	0.630	16.0		Dr. C. Lang.
Neufahrwasser	30.08	763.9	30.09	764.3	60.1	15.6	50	n.			2		2			0.016	0.4		A. Lothes.
Neustadt, Palatinate	29.43	747.8	29.96	760.9	67.8	19.9	70	wnw.			2		10	w.		0.138	3.5		Dicknether.
Stuttgart	29.01	736.8	29.88	759.0	63.5	17.5	80	n.			1		10			0.563	14.3		Prof. Dr. Schoder.
Wustrow	30.08	764.0	30.10	764.6	62.6	17.0	90	ne.			4		1 8			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.54	750.2			91.9	33.3		sw.			1.5		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.56	750.9	29.61	752.2	87.8	31.0	73	wsw.	27.0	12.1			5		w.	0	0	d. clouds	
Deesa	29.07	738.4	29.53	750.0	96.0	35.6	36	sw.	14.0	6.3			4	se.	sw.	0	0	d. clouds	
Bombay	29.69	754.2	29.73	755.1	77.5	25.3	94	wnw.	8.0	3.6			10		w.	1.41	35.8	overcast	
Poona, Yarrowda	27.86	707.7	29.71	754.7	79.1	26.2	66	w.	21.0	9.4			9		w.	0	0	d. clouds	
Trichinopoly	29.48	748.6	29.75	755.7	88.3	31.3	46	nw.	2.0	0.9			10			0	0	overcast	
Bellary	28.21	716.6	29.65	753.0	90.0	32.2	45	w.	16.9	7.6			7	sw.		0	0	d. clouds	
Belgaum	27.24	692.0	29.81	757.1	69.2	20.7	88	wsw.	13.0	5.8			8	se.	sw.	0.06	1.5	showery	
Lahore	28.67	728.3	29.36	745.9	108.8	42.7	25	calm	1.3	0.6			5			0	0	d. clouds	
Roorkee	28.64	727.4	29.52	749.7	86.2	30.1	77	s.	2.3	1.0			5			1.94	49.3		
Agra	28.96	735.6	29.51	749.0	86.3	30.2	72	n.	6.0	2.7			3		n.	1.04	26.4	d. clouds	
Nagpur	28.55	725.2	29.59	751.5	80.7	27.1	77	nne.	3.1	1.4			8		n.	0	0	gloomy	
Jubbulpore	28.25	717.5	29.58	751.4	84.6	29.2	74	n.	3.5	1.6			10			0.02	0.5	overcast	
Lucknow	29.17	740.9	29.54	750.3	87.1	30.6	78	calm	2.3	1.0			10	ese.		0	0	overcast	
Allahabad	29.26	743.1	29.56	750.9	80.8	27.1	91	ene.	1.9	0.8			10			0.43	10.9	overcast	
Patna	29.42	747.2	29.60	751.9	80.4	26.9	77	n.	3.2	1.4			10	n.	n.	0.41	10.4	overcast	
Hazaribagh	27.60	701.0	29.59	751.7	78.0	25.6	89	calm	4.8	2.2			10		nw.	0.27	6.9	showery	
Cuttack	29.50	749.2	29.58	751.2	85.0	29.4	81	sse.	1.0	0.4			4			0.28	7.1	d. clouds	
Calcutta, Alipore	29.54	750.4	29.56	750.9	86.5	30.3	74	ssw.	7.0	3.1			7	se.		0	0	d. clouds	
Dhubri	29.48	748.8	29.60	751.8	84.2	29.0	79	calm	1.1	0.5			7		se.	0.38	9.6	d. clouds	
Chittagong	29.52	749.9	29.61	752.2	84.9	29.4	81	sw.	2.5	1.1			8			0	0	d. clouds	
Sibsagar	29.28	743.6	29.60	752.0	85.2	29.6	83	sw.	1.1	0.5			10	w.	w.	0.11	2.8	d. clouds	
Jeypore	28.15	715.1	29.58	751.2	83.2	28.4	78	wsw.	8.4	3.8			8		w.	0.44	11.2	d. clouds	
Zanzibar, Africa	30.09	764.3			81.0	27.2	69	se.	6.7	3.0			6		se.	0.10	2.5	d. clouds	
ITALIAN.																			
Udine	29.44	747.7	29.84	757.8	71.6	22.0	70	se.	1.8	0.8			10			0.756	19.2		Prof. Giovanni Clodig.
Milan	29.29	743.9	29.78	750.5	75.7	24.3	57	se.	3.1	1.4			8	sw.		0.031	0.8		Prof. Schiaparelli.
Padua	29.71	754.6	29.82	757.3	73.6	23.1	62	n.	5.6	2.5			10	s.		0.051	1.3		Prof. Dott. Lorenzoni.
Moncalieri	28.89	733.9	29.76	750.0	73.0	22.8	74	e.	6.3	2.8			8	nw.		0.087	2.2		Prof. P. F. Denza.
Genoa	29.62	752.3	29.80	757.0	73.9	23.3	68	se.	8.1	3.6			8	nw.		0.594	15.1		Prof. G. M. Garibaldi.
Mondovi	27.91	708.9	29.76	755.8	73.2	22.9	57	se.			2		6			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.79	756.7	29.84	757.9	70.3	21.3	80	sw.	13.6	6.1			10			0	0		Prof. Luigi Guidi.
Florence	29.62	752.3	29.86	758.5	65.8	18.8	91	e.			2		10	w.		0.374	9.5		Prof. Costantino Pitter
Leghorn	29.69	754.2	29.78	756.3	78.1	25.6	55	wsw.	4.9	2.2			5			0.039	1.0		Prof. P. Monte.
Rome	29.70	754.4	29.87	758.7	71.4	21.9	80	s.	3.1	1.4			10			0.500	12.7		Prof. P. S. Ferrari.
Lecce	29.64	752.9	29.88	759.0	89.1	31.7	25	sw.	15.0	6.7			1			0	0		Prof. C. de Giorgi.
Cosenza	29.07	738.3	29.91	759.8	87.3	30.7	74	wsw.	3.8	1.7			5	sw.		0	0		Prof. D. Conti.
Cagliari	29.68	753.9	29.87	758.7	81.7	27.6	41	nw.			2		3	w.		0.051	1.3		Prof. A. Pacinotti.
Palermo	29.71	754.7	29.95	760.7	86.0	30.0	33	sw.	15.0	6.7			10	sw.		0	0		Prof. G. Ciacciatore.
Syracuse	29.86	758.5	29.91	759.6	88.9	31.6	53	s.	6.3	2.8			7	sw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.33	744.9	29.83	757.7	75.2	24.0	75	nw.	4.9	2.2			10	sw.		0	0		Prof. T. Brioschi.
Stelvio	22.09	561.1			46.4	8.0	70	e.			2		10			0.350	8.9	covered	Prof. P. F. Denza.
Valdobbia	22.18	563.3			45.9	7.7	75	e.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.65	753.1	29.66	753.3	59.0	15.0	87	ese.	12.0	5.4			10			1.040	26.4	covered	
Hiroshima, I. M. Obs'y					75.2	24.0	80	wsw.	0	0			10 cks			0.030	0.8	overcast	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.60	751.8	29.77	756.1	70.8	21.6	81	n.	3.1	1.3		0	0			0	0	clear	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.56	750.7	29.75	755.7	74.1	23.4	87	calm	0	0		8 ck	2 s			0.330	8.4	cloudy	S. Takehayashi.
Nemuro	29.89	759.2	29.94	760.5	55.5	13.1	100	calm	0	0		10	0			0	0	foggy	
Niigata	29.73	755.1	29.76	755.9	71.8	22.1	81	se.	6.8	3.0		0	2 ck;s			0	0	fair	M. Morita.
Nobiru	29.74	755.4	29.76	755.8	67.1	19.5	88	sse.	9.2	4.1		1 ck	9 s;ks			0	0	overcast	H. Midzushina.
Osaka	29.76	755.9	29.78	756.4	73.9	23.3	69	wsw.	3.1	1.4		0	0			0	0	clear	
Sapporo					60.0	15.6	93	se.	2.4	1.1			10			inap.	inap.	covered	
Tokei Obs'y, Yeddo	29.72	754.9	29.79	756.6	67.1	19.5	64	ssw.	6.3	2.8		0	0			0	0	clear	The Staff.
Wakayama	29.72	754.9	29.77	756.1	71.1	21.7	81	calm	0	0		0	0			0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	30.11	764.8	30.30	769.6	71.9	22.2	60	ese.	25.0	11.2		1 cs	2 k		ese.	0.26	6.6	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.68	601.4	29.90	759.4	58.6	14.8	85	n.				2 ck	1 ks		ene.	0.079?	2.5?	clear	Prof. Vicente Fernandez.
Leon	24.38	619.2	30.07	763.8	57.9	14.4	88	ssw.			1	5 c	0	w.		0.029	0.7	½ cloudy	Prof. M. Leal.
Mazatlan	29.62	752.3	29.87	758.8	78.5	25.8	93	nnw.	0	0		6 cs	1 ks	e.	e.	c.236	6.0	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	586.9	30.13	765.2	55.0	12.8	87	calm	0	0		1 c	8 ks			0.083?	0.3?	very cloudy	The Staff.
Morelia	24.17	614.0	30.23	767.7	59.5	15.3	42	se.			2	3	3	s.	s.	0.107	2.7	cloudy	M. Tena, M. D.
Orizaba	26.14	666.9	30.10	764.6	63.3	17.4	86	s.	0.9	0.4		0	0			0	0	clear	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.95	608.2	29.92	759.9	59.5	15.3	91	w.			1	0	6 ks		se.	0	0	½ cloudy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.45	595.6	30.17	766.2	56.7	13.7	94	ne.	1.7	0.8		0	9		ene.	0.134	3.4	covered	Prof. P. Spina.
San Luis Potosi	24.26	616.3	30.27?	767.8?	63.0	17.2	60	e.				2	1	w.	e.	0	0	foggy	G. Barroeta, M. D.
Zacatecas	22.60	573 7	30.14	765.6	52.2?	11.5?	85	ene.	7.7	3.4		0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.08	763.9	30.08	763.9	60.3	15.7		wnw.			3					0	0		
Groningen	29.95	760.8	30.01	762.2	61.3	16.3		ene.			2					0.051	1.3		
Helder	30.02	762.4	30.02	762.4	60.3	15.7		n.			3					0	0		
Hellevoetsluis	30.04	763.0	30.04	763.0	58.8	14.9	89	nw.			2					0	0		
Utrecht	29.97	761.3	30.02	762.5	63.5	17.5	86	wnw.					8			0.004	0.1	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.02	762.6	30.09	764.2	63.0	17.2	66	wnw.	16	7			2			0	0		
Brono	30.02	762.5	30.06	763.5	53.6	12.0	74	wnw.	9	4			8			0	0		
Christiania	29.81	757.2	29.95	760.8	73.4	23.0	38	wsw.	13	6			1			0	0		
Gjæsvær	29.59	751.6	29.61	752.2	39.9	4.4		nw.			6		10					raining	
Lodingen	29.82	757.5	29.87	758.7	50.9	10.5	57	wsw.			4-6		10			0	0		
PORTUGUESE.																			
Angra, Azores					75.2	24.0	85	n.	9.8	4.4			2			0	0		Dr. J. A. Sampaio.
Campo Major	28.97	735.8	29.90	759.5	91.4	33.0	16	n.	3.8	1.7			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.08	763.9	30.16	766.1	71.1	21.7	69	sw.	7.4	3.3			8			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.67	753.6	30.02	762.4	79.7	26.5	52	nnw.	13.6	6.1			1	nw.		0	0		The Staff.
Ponta Delgada, Azores	30.40	772.2	30.47	774.0	73.4	23.0	80	nne.	4.9	2.2			10			0	0		
Saint Paul de Loando	29.88	758.9	30.08	764.1	66.6	19.2	83	wsw.	0.7	0.3			10			0	0		
Serra da Estrella	25.36	644.0	29.89	759.3	68.4	20.2	51	se.	8.7	3.9			0			0	0		
RUSSIAN.																			
Akmolinski					45.1	7.3	88	wnw.	13	6			10			0.098	2.5		Major K. Lasarew.
Archangel	29.48	748.9	29.50	749.4	82.9	28.3	36	ne.	4	2		0	2 ks			0	0		Capt. Sselilwerstow.
Astrakhan	29.99	761.7	29.91	759.6	70.5	21.4	54	wsw.	2	1			9			0.016	0.4		Capt. Wisganow.
Barnaul	29.35	745.4	29.82	757.5	67.6	19.8	41	wsw.	9	4		0	6 k			0.079	2.0		Meteorological Obs'y.
Dorpat	29.64	752.9	29.87	758.8	47.8	8.8	74	w.	31	14			10			0.012	0.3	light rain	Observatory.
Ekaterinburg	28.45	722.7	29.40	746.7	68.5	20.3	74	n.	2	1		0	1			0	0		Meteorological Obs'y.
Irkutsk	28.23	717.0	29.80	757.0	58.3	14.6	51	wsw.	20	9		0	7 k			0.004	0.1		
Kasan	29.48	748.7	29.74	755.4	78.3	25.7	65	s.	9	4		0	2 k			0	0		Observatory.
Kertch	29.89	759.1	29.91	759.6	72.5	22.5	70	sse.	2	1		ck	8 ks;n			0.705	17.9		Lagorio & Sastyrez.
Kieff	29.17	741.0	29.78	756.4	81.3	27.4	39	ssw.	4	2			7			0	0		Observatory.
Lugan	29.66	753.3	29.85	758.3	58.8	14.9	48	ssw.	7.8	3.5			10 s						Meteorological Obs'y
Moscow	29.32	744.6	29.78	756.4	82.0	27.8	43	s.	22	10		0	0			0	0		Meteorological Obs'y.
Nikolaiev	29.85	758.2	29.92	760.0															Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.50	749.2	29.64	752.8	89.1	31.7	33	nw.	11	5		0	6 k			0	0		Physical Observatory
St. Petersburg	29.74	755.5	29.76	755.9	62.8	17.1	45	nw.	20	9		cs	4 s			0	0	light clouds	Central Physical Obs'y
Semipalatinsk	29.12	739 7	29.73	755.2	81.7	27.6	43	w.	18	8			9			inap.	inap.		Major Lasarew.
Tashkend, Laboratory	28.39	721.0	29.85	758.2	88.2	31.2	37	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.51	724.2	29.84	758.0	85.1	29.5	44	calm	0	0			10			0	0		Physical Observatory
Vladivostock	29.69	754.1			58.3	14.6	97	se.	4	2		0	4 k						
Warsaw	29.55	750.6	29.97	761.1	62.4	16.9	53	e.	7	3			10 ks						Astronomical Obs'y
Wilna	29.56	750.9	29.97	761.3	62.6	17.0	43	ene.	2	1			5			0	0		Berg, Assistant.
Yeniseisk	29.39	746.6	29.68	753.8	50.7	10.4	91	w.	7	3			4			0.437	11.1	raining	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.85	758.2	29.95	760.7	75.2	24	68	se.	3.1	1.4			6 k						Antonio Rave, Director.
Bilbao, Met. Obs'y	30.09	764.3	30.15	765.8	72.0	22.2	74	nw.	3.1	1.4		2	7	n.		0.394	10.0	almost cov.	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.19	690.6	30.06	763.4	72.3	22.4	47	ne.	6.0	2.7			4			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.81	706.3	29.91	759.6	85.5	29.7	40	s.	4.3	1.9		0	1			0	0	almost clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director.
Santiago, Met. Obs'y	29.15	740.3	30.01	762.3	73.9	23.3	58	ne.	7.4	3.3			3			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.																			Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.6	29.88	759.0	83.4	28.6	78	sse.	9.9	4.4		1 c	4 ck		e.	0.122	3.1	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.88	759.0	29.98	761.4	81.5	27.5	56	sw.	11.7	5.3		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.05	763.2	30.14	765.5	83.1	28.4	77	e.	11.2	5.0		2 c	5 kn	e.	e.	0.047	1.2	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.73	755.1	29.86	758.4	85.0	29.4	81	nnw.	4.0	1.8		5 cs	1 k	e.	nne.	0	0	cloudy	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.66	753.4	29.70	754.4	58.6	14.8	87	n.			4		10			0	0		
Umea	29.51?	749.5?	29.56?	750.8?	72.3	22.4	38	nw.			6		2			0	0		
Hernosand	29.76	755.8	29.81	757.1	69.1	20.6	32	nw.			6		0			0	0		
Stockholm	29.74	755.3	29.91	759.8	71.6	22.0	32	w.			6		1			0	0		
Wisby	29.95	760.8	30.01	762.3	59.7	15.4	75	w.			4		0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Sub-series.																			
Upsala	29.78	756.4	29.87	758.6	71.2	21.8	29	wnw.	10.3	4.6			1		nw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.54	724.9	29.93	760.2	66.4	19.1	64	n.			4					0	0	covered	The Observatory
SCOTTISH.																			
Monach Lt			30.05	763.3	61	16.1	94	sw.			4		fg.			0	0		J. Youngclause.
North Unst			30.18	766.6				se.			2		7					foggy	
TURKISH.																			
Constantinople			29.93	760.3	81.3	27.4	48	ne.	6	2.5			0			0	0		The Observatory.
Valona			30.07	763.7	90.0	32.2		s.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.85	758.1	83.8	28.8	62	sw.			3	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.61	752.1	29.69	754.1	61.5	16.4	84	s.	8	3.6			10 n		se.	0.27	6.9	light rain	J. O. Barnes.
Alpena, Michigan	29.02	737.1	29.66	753.4	53	11.7	93	nw.	10	4.5			10 s			1.12	28.4	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.05	636.3	29.79	756.7	59	15.0	78	e.	4	1.8		0	6 s		calm	0.14	3.6	fair	W. C. Barnes.
Assinnaboine, Ft., Montana	27.08	687.8	29.81	757.2	56	13.3	80	ne.	5	2.2		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.85	732.8	30.00	762.0	74.0	23.3	85	w.	8	3.6		6 k	4 s			0.03	0.8	cloudy	H. Hall.
Atlantic City, New Jersey	29.67	753.6	29.68	753.9	69	20.6	97	sw.	9	4.0			10s;fg		sw;c	0.03	0.8	cloudy	Jas. M. Watson.
Augusta, Georgia	29.80	756.9	29.99	761.7	78.0	25.6	76	sw.	6	2.7		1 c	0			inap.	inap.	clear	John Healy.
Baltimore, Maryland	29.65	753.1	29.70	754.4	72	22.2	97	sw.	7	3.1			10s;fg		sw.	0.13	3.3	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.63	752.6	29.65	753.1	69.0	20.6	93	s.	12	5.4			10 s			0.02	0.5	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.38	720 8	29.92	760.0	65	18.3	90	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.11	688.6	29.82	757.4	60	15.6	67	calm	0	0		0	1 s			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	29.90	759.4	29.92	760.0	75.0	23.9		s.	3	1.3			fg.			0.21	5.3	dense fog	Dr. L. Stejneger.
Bismarck, Dakota	28.24	717.3	29.96	761.0	62	16.7	78	n.	2	0.9		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.77	756.1	29.80	756.9	59.2	15.1	100	se.	24	10.7			10 n		se.	0.93	23.6	light rain	J. T. Elker.
Boise City, Idaho	27.13	689.1	29.85	758.2	64	17.8	42	calm	0	0		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.67	753.6	29.82	757.4	53.0	11.7	96	se.	16	7.2			10 n		se.	0.19	4.8	light rain	O. B. Cole.
Brownsville, Texas	29.91	759.7	29.95	760.7	77.6	25.3	88	se.	1	0.4		5 cs	3 ks	e.	e.	0	0	cloudy	M. McCarty.
Buffalo, New York	28.85	732.8	29.58	751.3	62	16.7	96	calm	0	0			10n;fog			0.39	9.9	light rain	Wm. Finn.
Buford, Fort, Dakota	28.06	712.7	30.00	762.0	58	14.4	77	e.	1	0.4		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.40	746.7	29.68	753.9	56.3	13.5	92	calm	0	0			10 n		s.	0.20	5.1	light rain	G. C. Schaeffer.
Cairo, Illinois	29.52	749.8	29.91	759.7	79.9	26.6	88	w.	12	5.4		3 c	5 ks	w.	w.	1.31	33.3	cloudy	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.22	691.4	29.81	757.2	73	22.8	79	s.			1		9 ks		sw.	0.03	0.8	cloudy	J. T. Fitzgerald.
Cape Henry, Virginia	29.76	755.9	29.78	756.4	78	25.6	88	sw.	12	5.4		3 ck	3 s	w.	w.	0.03	0.8	fair	A. K. Alderson.
Cape May, New Jersey	29.66	753.4	29.69	754.1	70.0	21.1	84	s.	11	4.9			10 ks			0	0	cloudy	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	80	26.7	74	w.	9	4.0		6 c	0			2.31	58.7	fair	F. W. Mixer.
Champaign, Illinois	29.04	737.6	29.82	757.4	73.8	23.2	77	w.	5	2.2		4 c	0	w.		0.03	0.8	fair	L. A. Welsh.
Charleston, S. Carolina	29.89	759.2	29.94	760.5	79	26.1	82	w.	12	5.4		0	0			0.23	5.8	clear	J. H. Smith.
Charlotte, N. Carolina	29.02	737.1	29.86	758.4	82.0	27.8	62	sw.	4	1.8		4 c	0	w.		0.06	1.5	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.17	740.9	29.97	761.2	76.0	24.4	85	sw.	9	4.0			10 ks		w.	0.01	0.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.19	614.4	29.88	758.9	55.2	12.9	83	nw.	3	1.3		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.09	738.9	29.78	756.4	69.0	20.6	78	nw.	3	1.3		0	0			0.17	4.3	clear	J. Mitchell.
Chincoteague, Virginia	29.71	754.6	29.73	755.1	74	23.3	97	s.	10	4.5		3 k	6 s	sw.	sw.	0.01	0.3	cloudy	V. P. Temple.
Cincinnati, Ohio	29.15	740.4	29.79	756.7	78	25.6	82	w.	8	3.6			10 s		w.	0.33	8.4	cloudy	J. F. Harrold.
Cleveland, Ohio	28.97	735.8	29.69	754.1	71.1	21.7	91	w.	14	6.3			10 k		w.	0.75	19.0	cloudy	J. B. Newlin.
Coleman City, Texas	28.23	717.0	29.99	761.7	74	23.3	76	sw.	2	0.9		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	28.91	734.3	29.74	755.4	73	22.8	82	w.	10	4.5			10 ks		w.	0.24	6.1	cloudy	D. Cuthbertson.
Concho, Texas	28.09	713.5	29.97	761.2	77	25.0	66	s.	8	3.6		0	0			0	0	clear	W. W. McConihe.
Custer, Fort, Montana	26.79	680.5	29.81	757.2	65	18.3	65	s.	2	0.9		8 k	0	calm		0	0	cloudy	V. Verge.
Davenport, Iowa	29.19	741.4	29.82	757.4	73	22.8	82	nw.	4	1.8		5 ck	0	nw.		0.01	0.3	fair	R. R. Martin.
Davis, Fort, Texas	25.19	639.8	29.83	757.7	68	20.0	63	sw.	2	0.9		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.18	715.8	29.89	759.2	56.0	13.3	80	sw.	2	0.9		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.47	646.9	29.89	759.2	59.0	15.0	78	calm	0	0		5 k	0	w.		0	0	fair	G. W. Scott.
Decatur, Texas					82	27.8	44	sw.	10	4.5		0	2 s			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.68	753.9	29.70	754.4	72	22.2	90	sw.	16	7.2		0	9 s		sw.	0	0	cloudy	A. Schneider.
Denison, Texas	29.17	740.9	29.95	760.7	78.3	25.7	74	sw.	12	5.4		6 cs	0			0	0	fair	J. McGlone.
Denver, Colorado	24.85	631.2	29.86	758.4	63.0	17.2	75	n.	3	1.3		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.98	736.1	29.86	758.4	72	22.2	84	nw.	5	2.2		7 ck	0	w.		0	0	fair	F. W. Conrad.
Detroit, Michigan	29.00	736.6	29.69	754.1	67.0	19.4	78	nw.	14	6.3		3 c;k	0	w.		0.98	24.9	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.31	693.7	29.81	757.2	70.0	21.1	97	ne.	2	0.9		0	fg.			0.25	6.3	light fog	W. M. Mattingly.
Dubuque, Iowa	29.11	739.4	29.80	756.9	70.3	21.3	79	w.	1	0.4		9 k	0	w.		0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.20	741.7	29.92	760.0	52	11.1	86	sw.	6	2.7		0	7 s		nw.	0.11	2.8	fair	N. B. Conger.
Eagle Pass, Texas	29.21	741.9	30.00	762.0	77.0	25.0	76	se.	5	2.2		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.32	643.1	29.87	758.7	58	14.4	58	s.	1	0.4		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.90	759.4	29.96	761.0	52.0	11.1	80	ne.	9	4.0			10 s		ne.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.19	690.6	29.83	757.7	66	18.9	65	n.	4	1.8		4 k	0	n.		0	0	fair	W. J. Cundall.
El Paso, Texas	26.26	667.0	29.86	758.4	72	22.2	64	nw.	2	0.9		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	28.92	734.6	29.63	752.6	67	19.4	93	w.	12	5.4			fg.			0.79	20.1	dense fog	Peter Wood.
Escanaba, Michigan	29.14	740.1	29.78	756.4	52	11.1	86	nw.	12	5.4			10 s		nw.	0.04	1.0	cloudy	C. Dill.
Fredericksburg, Texas	28.29	718.6	29.99	761.7	70	21.1	90	calm	0	0		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	29.99	761.7	30.04	763.0	83	28.3	74	s.	10	4.5		0	5 ks		sw.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.10	739.1	29.75	755.6	63.5	17.5	87	nw.	6	2.7			10 s		nw.	0.75	19.0	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.26	641.6	29.83	757.7	66.4	19.1	76	e.	4	1.8		0	9 s			0.17	4.3	cloudy	Robert C. Lord.
Hatteras, North Carolina	29.85	758.2	29.87	758.7	78.0	25.6	90	sw.	18	8.0		6 k	0	w.		0.28	7.1	fair	R. M. Crawford.
Helena, Montana	25.77	654.5	29.83	757.7	65	18.3	54	s.	2	0.9		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	28.91	734.3	29.89	759.2	84.0	28.9	57	s.	4	1.8		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.62	726.9	29.94	760.5	61.7	16.5	84	n.	6	2.7			10 s			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.04	737.6	29.81	757.2	76.5	24.7	75	w.	4	1.8		2 c	0	w.		0.61	15.5	clear	O. Schutze
Indianola, Texas	30.00	762.0	30.02	762.5	79.2	26.2	82	se.	7	3.1		hz.	3 k		s.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.80	731.5	29.92	760.0	79	26.1	65	sw.	10	4.5		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.02	762.5	30.06	763.5	82	27.8	80	sw.	12	5.4		2 cs	2 k		sw.	0.99	25.1	fair	J. W. Smith.
Keogh, Fort, Montana	27.45	697.2	29.86	758.4	66	18.9	70	e.	13	5.8		0	0			0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.18	741.2	29.82	757.4	77.0	25.0	76	calm	0	0		2 k	0	w.		0.06	1.5	clear	F. Z. Gosewisch
Key West, Florida	30.10	764.5	30.12	765.0	83.0	28.3	74	se.	5	2.2		2 c	4 k		se.	0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	29.82	757.4	29.84	757.9	79.0	26.1	89	w.	14	6.3		3 c	0	n.		inap.	inap.	clear	E. A. Beals.
Knoxville, Tennessee	28.94	735.1	29.94	760.5	72.3	22.4	95	sw.	8	3.6			10 s		w.	0.10	2.5	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.07	738.4	29.82	757.4	69	20.6	76	n.	8	3.6		6 k	0	nw.		0	0	fair	S. C. Emery.
La Mesilla, New Mexico	26.10	662.9	29.84	757.9	69.0	20.6	63	calm	0	0		0	1 s			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.05	737.9	29.91	759.7	76	24.4	76	n.	2	0.9		3 k	sk.			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.04	737.6	29.85	758.2	65.0	18.3	65	ne.	2	0.9		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.68	753.9	29.99	761.7	79	26.1	82	w	3	1.3		0	9 s		sw.	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.60	751.8	29.99	761.7	59.0	15.0	87	sw.	2	0.9			10 s			0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.25	742.9	29.80	756.9	76	24.4	90	sw.	8	3.6			10 s		w.	0.33	8.4	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.12	739.6	29.79	756.7	74.0	23.3	76	sw.	4	1.8		0	9 s		nw.	inap.	inap.	cloudy	W. R. Bushby.
Macon, Fort, North Carolina	29.85	758.2	29.86	758.4	80	26.7	79	sw.	16	7.2		4 cs	2 ks;hz		sw.	0	0	fair	F. P. Chaffee.
Madison, Wisconsin	28.81	731.8	29.79	756.7	67	19.4	90	sw.	8	3.6		3 cs	0	nw.		0.02	0.5	fair	C. A. Shaw.
Maginnis, Fort, Montana																			H. W. Dodge.
McKavett, Fort, Texas	27.80	706.1	30.00	762.0	72	22.2	76	s.	8	3.6		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.11	739.4	29.82	757.4	48	8.9	93	nw.	12	5.4			10 s		nw.	inap.	inap.	cloudy	J. Gilligan.
Memphis, Tennessee	29.61	752.1	29.94	760.5	82	27.8	80	sw.	12	5.4		8 cs	0	sw.		0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.03	737.3	29.76	755.9	65	18.3	90	n.	4	1.8		3 ck	2 ks	n.	n.	0.01	0.3	fair	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES,—Cont'd.																			
Missoula, Fort, Montana	26.70	678.2	29.89	759.2	64	17.8	70	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.04	763.0	30.08	764.0	79	26.1	82	w.	1	0.4	.....	1 c	0	sw.	.....	0	0	clear	C. A. Read.
Montgomery, Alabama	29.81	757.2	30.03	762.7	80.0	26.7	82	sw.	6	2.7	.....	3 cs	0	.....	.....	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.01	736.8	29.97	761.2	54.3	12.4	93	n.	12	5.4	.....	.....	9 s	.....	n.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	28.76	730.5	29.76	755.9	72.5	22.5	89	calm	0	0	.....	.....	10 s	.....	sw.	1.27	32.3	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.64	600 4	29.71	754.6	37.0	2.8	96	s.	49	21.9	.....	.....	10n;fg	.....	s.	0.07	1.8	light rain	J. G. Linsley.
Nashville, Tennessee	29.40	746.7	29.92	760.0	74.0	23.3	84	sw.	12	5.4	.....	.....	10 n	.....	w.	0.26	6.6	thund'r st'm	L. N. Jesunofsky.
New Haven, Connecticut	29.60	751.8	29.71	754.6	60	15.6	96	se.	16	7.2	.....	.....	10 n	.....	se.	0.82	20.8	light rain	J. H. Sherman.
New London, Connecticut	29.72	754.9	29.76	755.9	59	15.0	93	e.	21	9.4	.....	.....	10 n	.....	.....	0.73	18.5	light rain	J. G. Lynch.
New Orleans, Louisiana	30.01	762.2	30.06	763.5	82.2	27.9	74	s.	3	1.3	.....	0	4 ks	.....	s.	0	0	fair	L. Dunne.
Newport, Rhode Island	29.76	755.9	29.80	756.9	57.8	14.3	81	se.	17	7.6	.....	.....	10 s	.....	e.	0.50	12.7	cloudy	W. McGillivray.
New York, New York	29.51	749.5	29.68	753.9	66	18.9	100	s.	5	2.2	.....	.....	10 s	.....	.....	1.22	31.0	cloudy	J. B. Merrill.
Norfolk, Virginia	29.76	755.9	29.80	756.9	79	26.1	88	sw.	10	4.5	.....	4 cs	0	w.	.....	0.47	11.9	fair	H. L. Kemp.
North Platte, Nebraska	27.12	688.8	29.92	760.0	66.6	19.2	88	nw.	3	1.3	.....	0	1 s	.....	.....	0.88	22.4	clear	E. F. Brady.
Olympia, Washington T'y	29.96	761.0	30.00	762.0	53.5	11.9	86	n.	1	0.4	.....	9 k	0	w.	.....	0	0	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.82	757.4	29.84	757.9	38.5	3.6	86	ese.	5	2.2	.....	0	3 s	.....	w.	0	0	clear	P. H. Ray.
Omaha, Nebraska	28.76	730.5	29.90	759.4	77.2	25.1	74	w.	6	2.7	.....	0	0	.....	.....	0.02	0.5	clear	A. Pollak.
Oswego, New York	29.23	742.4	29.55	750.6	61.7	16.5	89	s.	6	2.7	.....	5 cs	5 k	w.	w.	0.16	4.1	cloudy	S. W. Beall.
Palestine, Texas	29.51	749.5	30.05	763.3	77.0	25.0	85	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.06	763.5	30.08	764.0	79.3	26.3	88	sw.	4	1.8	.....	2 c	0	.....	.....	0.09	2.3	clear	M. McGauran.
Philadelphia, Pa	29.57	751.1	29.67	753.6	74	23.3	90	sw.	5	2.2	.....	.....	10 s	.....	sw.	0.05	1.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.09	459.5	29.87	758.7	36.5	2.5	85	w.	8	3.6	.....	0	0	.....	.....	0.74	18.8	clear	L. M. Dey.
Pioche, Nevada	24.15	613.4	29.88	758.9	58.5	14.7	67	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	28.89	733.8	29.68	753.9	73.7	23.2	85	sw.	8	3.6	.....	.....	10 ks	.....	sw.	0.29	7.4	cloudy	J. H. Bryce.
Poplar River, Montana	27.88	708.1	.....	.....	.....	.....	.....	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.12	765.0	30.13	765.3	81.0	27.2	82	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. Hermann.
Port Huron, Michigan	28.99	736.3	29.65	753.1	63.2	17.3	84	w.	12	5.4	.....	0	8 ks	.....	w.	0.62	15.7	cloudy	W. O. Bailey.
Portland, Maine	29.80	756.9	29.85	758.2	62	16.7	78	s.	10	4.5	.....	.....	10 n	.....	s.	0.02	0.5	light rain	W. W. Eichelberger.
Portland, Oregon	29.93	760.2	30.00	762.0	55.0	12.8	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.85	631.2	29.84	757.9	61	16.1	70	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass	29.81	757.2	29.84	757.9	56.0	13.3	93	se.	25	11.2	.....	.....	10 n	.....	se.	0.28	7.1	light rain	P. T. Jenkins.
Punta Rassa, Florida	30.10	764.5	30.12	765.0	81	27.2	67	sw.	4	1.8	.....	9c;ck	0	c; ne	.....	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.46	748.3	29.82	757.4	73.2	22.9	44	calm	0	0	.....	1 k	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.76	755.9	30.00	762.0	80	26.7	79	se.	4	1.8	.....	.....	0 s	.....	se.	0	0	cloudy	P. M. Wilson.
Rochester, New York	28.91	734.3	29.56	750.8	61	16.1	100	w.	4	1.8	.....	.....	fg.	.....	.....	0.44	11.2	dense fog	E. W. McGann.
Roseburg, Oregon	29.40	746.7	29.94	760.5	54	12.2	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Naury.
Sacramento, California	29.74	755.4	29.81	757.2	63.2	17.3	73	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.30	744.2	29.88	758.9	78.0	25.6	82	nw.	6	2.7	.....	2 c	0	w.	.....	inap.	inap.	clear	J. H. Webber.
St. Paul, Minnesota	29.02	737.1	29.86	758.4	63	17.2	84	n.	8	3.6	.....	6 k	0	n.	.....	0	0	fair	P. F. Lyons
St. Vincent, Minnesota	29.18	741.2	30.02	762.5	52	11.1	86	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.68	652.3	29.86	758.4	66	18.9	39	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.32	744 7	30.00	762.0	76.0	24.4	85	calm	0	0	.....	0	2 k	.....	s.	0	0	clear	T. J. Kenan.
San Diego, California	29.87	758.7	29.94	760.5	62.3	16.8	80	w.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.04	737.6	29.70	754.4	71.0	21.7	82	nw.	22	9.8	.....	0	0	.....	.....	0.68	17.3	clear	M. H. Perry.
Sandy Hook, New Jersey	29.63	752.6	29.65	753.4	71.5	21.9	84	sw.	8	3.6	.....	.....	10 n	.....	sw.	0.67	17.0	light rain	B. A. Blundon.
San Francisco, California	29.80	756.9	29.87	758.7	55	12.8	93	sw.	8	3.6	.....	0	4s;fg	.....	s6; sw.	0	0	fair	N. Gorom.
Santa Fé, New Mexico	23 38	593.8	29.88	758.9	61	16.1	65	ne.	4	1.8	.....	5 c	0	w.	.....	0	0	fair	H. U. Jones.
Savannah, Georgia	29.91	759.7	30.00	762.0	81	27.2	74	w.	9	4.0	.....	5 cs	0	w.	.....	1.89	48.0	fair	H. W. Ford.
Shaw, Fort, Montana	26.32	668.5	29.83	757.7	54	12.2	74	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.80	756.9	30.03	762.7	78	25.6	82	sw.	4	1.8	.....	2 c;hz	0	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.71	729 2	29.91	759.7	81.3	27.4	52	s.	8	3.6	.....	4 ck	0	sw.	.....	0	0	fair	T. Cleary.
Silver City, New Mexico	24.33	618.0	29.79	756.7	61	16.1	46	nw.	6	2.7	.....	0	0	.....	.....	0.04	1.0	clear	J. B. Wallace.
Sitka, Alaska	29.93	760.2	29.99	761.7	47.1	8.4	83	ne.	6	2.7	.....	.....	10 ks	.....	nw.	0.04	1.0	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.51	749.5	29.97	761.2	78.6	25.9	88	se.	5	2.2	.....	.....	10 s	.....	se.	inap.	inap.	cloudy	J. B. Campbell.
Smithville, North Carolina	29.86	758.4	29.89	759.2	80	26.7	79	w.	12	5.4	.....	2 c	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.88	708.1	29.86	758.4	59	15.0	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.20	741.7	29.86	758.4	76	24.4	81	w.	2	0.9	.....	3 c	0	w.	.....	inap.	inap.	clear	T. B. Jennings.
Springfield, Massachusetts	29.64	752.8	29.77	756.1	58.0	14.4	87	se.	4	1.8	.....	.....	10 n	.....	se.	0.62	15.7	light rain	T. S. Outram.
Springfield, Mo	28.53	724.6	29.92	760.0	77	25.0	88	w.	7	3.1	.....	7 c	2 s	w.	.....	0.04	1.0	cloudy	J. B. Marbury.
Starkville, Miss	29.54	750.3	30.02	762.5	82	27.8	72	sw.	12	5.4	.....	4 ck	4 s	.....	sw.	.c	0	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.22	716.8	30.00	762.0	56	13.3	100	ne.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	W. Burrows
Stockton, Fort, Texas	26.99	685.5	29.93	760.2	69.0	20.6	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.80	756.9	29.86	758.4	56.0	13.3	100	se.	22	9.8	.....	.....	10 n	.....	.....	0.51	13.0	light rain	G. Liebmann.
Toledo, Ohio	29.04	737.6	29.71	754.6	74	23.3	69	w.	9	4.0	.....	2 c	0	w.	.....	1.17	29.7	clear	A. Buell.
Tucson, Arizona	27.50	698.5	29.82	757.4	73	22.8	76	calm	0	0	.....	0	4 ks	.....	.....	0.07	1.8	fair	J. L. Whiteside.
Umatilla, Oregon	29.56	750.8	29.92	760.0	63.5	17.5	55	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.04	737.6	29.98	761.5	76	24.4	85	calm	0	0	.....	.....	10 s	.....	s.	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	73.8	23.2	53	nw.	.....	.....	1	2 cs	3 s	sw.	w.	0	0	fair	D. Brooks.
Vicksburg, Mississippi	29.80	756.9	30.04	763.0	81	27.2	79	sw.	1	0.4	.....	2 ck	0	.....	.....	0	0	clear	H. P. Brisbane.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.62	625.3	29.94	760.5	63.2	17.3	60	ne.	3	1.3	.....	1 k	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	29.60	751.8	29.71	754.6	72.9	22.7	91	sw.	5	2.2	.....	4 cs	6 s	sw.	sw.	0.12	3.0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.14	663.9	29.90	759.4	70.8	21.6	82	e.	8	3.6	.....	0	5 s	.....	e.	0	0	fair	F. W. Brandenburg.
Williamsport, Pa	29.06	738.1	29.64	752.8	69	20.6	90	calm	0	0	.....	.....	10 k	.....	w.	1.19	30.2	threatening	B. F. Hough.
Wilmington, N. Carolina	29.84	757.9	29.89	759.2	78	25.6	82	sw.	8	3.6	.....	0	hz.	.....	.....	0.06	1.5	clear	A. T. Sherwood.
Winnemucca, Nevada	25.63	651.0	29.85	758.2	58	14.4	44	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.67	728.2	29.94	760.5	70	21.1	76	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.66	753.4	29.80	756.9	74.7	23.7	61	calm	0	0	.....	5 cs	0	.....	.....	0	0	fair	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1	.....	.....	53.5	11.9	73	sw.	2	0.9	.....	2 c;ck	4 ks	w.	ne.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.05	763.3	30.06	763.5	82	27.8	95	ne.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.05	763.3	30.08	764.0	77	25.0	95	n	4	1.8	.....	.....	10 n	.....	n.	0.70	17.8	heavy rain	J. I. Plume.
Kingston, Jamaica, W. I.	30.09	764.3	30.10	764.5	79.8	26.6	78	calm	0	0	.....	3 cs	0	.....	.....	0	0	fair	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	74	23.3	.....	e.	.....	.....	5	0	5 ck	.....	se.	0	0	.....	S. M. Pike.
Navassa	30.00	762.0	30.08	764.0	81	27.2	74	e.	9	4.0	.....	2 ck	0	ne.	.....	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.10	764.5	30.10	764.5	79	26.1	87	se.	.....	.....	2	4 c	5 k	e.	.....	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.43	747.5	29.99	761.7	76	24.4	89	n.	.....	.....	1	.....	10 ks	.....	calm	0.10	2.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	97	e.	.....	.....	1	1 cs	3 ks	.....	e.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.08	764.0	30.10	764.5	79	26.1	74	calm	0	0	.....	4 c	0	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A.	30.20	767.1	30.26	768.6	60.0	15.6	82	ne.	7	3.1	.....	2 c	0	ne.	.....	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, S. 33° 21′, E. 16° 05′	30.19	766.8	62.5	16.9	76	ssw.			1		3							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.93	760.2	77	25.0	82	wnw.			3		0					1	wnw	blue sky.
H. M. S. Amethyst, Montevideo, Uruguay	30.16	766.1	51.2	10.7	91	sse.			3		8					2	s.	d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.96	761.0	75	23.9		nnw.			2–3									blue sky.
H. M. S. Bacchante, Cagliari Bay, Sardinia	29.90	759.4	82	27.8	62	n.			3		3	wnw.						d. clouds
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.28	769.1	61	16.1		ese.			1–2		0							blue sky.
H. M. S. Champion, N. 20° 10′, E. 169° 30′			80	26.7	95	ene.			4–5		6	ne.				4	ene.	d. clouds.
H. M. S. Comus, Yokohama, Japan	29.78	756.4	75	23.9	72	ssw.			2		4							d. clouds.
H. M. S. Diamond, S. 9° 02′, E. 159° 40′	29.91	759.7	81	27.2	87	se.			2–3		4							d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.09	764.3	79	26.1		e.			3–4		2	e.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.09	764.3	78	25.6	95	ssw.			1–2		4	ssw.						d. clouds.
H. M. S. Druid, N. 17° 53′, W. 76° 40′	30.08	764.0	81	27.2	89	n.			1–2		2	ne.				2	e.	d. clouds.
H. M. S. Dwarf, S. 30° 00′, W. 59° 28′	30.07	763.8	48.5	9.2	85	ese.			2		5					2	e.	d. clouds.
H. M. S. Eclipse, S 4° 17′, E. 52° 40′	29.99	761.7	80	26.7		s.			2		3					3	ese.	d. clouds.
H. M. S. Emerald, S. 28° 20′, W. 22° 20′	30.18	766.6	70	21.1	100	nnw.			3–4		5	nnw.				2	nnw.	d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.66	753.4	82.5	28.1	76	sw.			3		10	calm						overcast.
H. M. S. Espiegle, S. 17° 35′, E. 168° 16′	30.05	763.3	73	22.8	90	ese.			2									blue sky.
H. M. S. Fawn, S. 25° 59′ E. 32° 48′	30.19	766.8	71.5	21.9	75	ne.			2		0							blue sky.
H. M. S. Gannet, S. 22° 55′, W. 70° 25′	30.12	765.0	56.5	13.6	71	s.			1		10					4	ssw.	d. clouds.
H. M. S. Garnet, S. 25° 43′, W. 28° 30′	30.07	763.8	74	23.3	85	n.			3		5					2	nne.	d. clouds.
H. M. S. Griffon, N. 50° 06′ W. 56° 08′	29.92	760.0	50	10.0	86	ne.			3		10							raining.
H. M. S. Iris, N. 34° 40′, E. 18° 50′	30.27?	768.8?	80	26.7	95	sw.			2		0					1	wsw.	blue sky.
H. M. S. Iron Duke, N. 35° 27′, E. 139° 38′	29.83	757.7	71	21 7	95	sw.			1		3	ssw.						d. clouds.
H. M. S. Kingfisher, N. 25° 00′, W. 111° 40′	29.90	759.4	64	17.8		nw.			3		4					2	nw.	d. clouds.
H. M. S. Lark, S. 10° 40′, E. 162° 22′	29.93	760.2	82.3	27.9	94	se.			3		10					2	e.	raining.
H. M. S. Liffey, Coquimbo, Chili	30.10	764.5	52.5	11.4		ne.			1		10							d. clouds.
H. M. S. Magpie, N. 35° 19′, E. 140° 27′	29.78	756.4	70.7	21.5	90	w.			1		0					4	se.	blue sky.
H. M. S. Minotaur, Malta, Mediterranean	30.01	762.2	80	26.7	74	wsw.			1		0							blue sky.
H. M. S. Nelson, S. 36° 50′ E. 174° 49′	29.34	745.2	57	13.9	?	nne.			7–9		8	sw						showery.
H. M. S. Northampton, Halifax, Nova Scotia	29.87	758.7	52	11.1	86	nnw.			3		10	nnw.						overcast.
H. M. S. Pegasus, N. 1° 17′. E. 103° 51′	29.84	757.9	83.5	28.6	83	se.			1		9							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Is'd	30.14	765.5	69	20.6	90	se.			2		4	ese.						d. clouds.
H. M. S. Rocket, Vancouver Island, B. C.	29.94	760.5	55	12.8	100	wsw.			1		1							blue sky.
H. M. S. Sappho, S. 25° 05′ W. 130° 00′	30.25	768.3	71.5	21.9		w.			2–3		2	calm				2	nw.	d. clouds.
H. M. S. Swiftsure, S. 18° 39′, W. 36° 34	30.05	763.5	74.5	23.6	95	sse.			4–5		8	ssw.				7	ssw.	showery.
H. M. S. Sylvia, Montevideo, Uruguay	30.19	766.8	50.:	10.1	91	s.			1–2		8	calm						d. clouds.
H. M. S. Tenedos, N. 46° 08′ W. 60° 09′	29.80	756.9	50	10.0	93	nnw.			3–4		10							squally.
H. M. S. Triumph, Valparaiso, Chili	30.15	765.8	51	10.6	93	calm			0		9	nw.						d. clouds.
H. M. S. Woodlark, Off Bassorah, Asiatic Turkey	29.52	749.8	100.5	38.1	39	nw.			3–4		0							blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.10	764.5	77.0	25.0	83	ne.			2		2					2	se.	d. clouds.
Tamega, Macao, China	29.85	758.1	84.2	29.0	89	s.			3		3							d. clouds.
Swedish Naval.																		
Saga, N. 56° 26′, W. 9° 33′	29.99	761.7	60.8	16.0	91	w.			2		10							misty.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.00	762.0	80	26.7	87	sw.	8	3.6			2		sw.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.67	753.6	55	12.8	87	se.	10	4.5			10		se.	0.1	3.			raining.
Naval Hospital, Yokohama, Japan*	29.69	754.1	68.5	20.3	92	s.			1		0			0	0			clear.
Adams, Mare Island, Cal.	29.86	758.4	59	15.0	94	sw.			2		8			0	0	sm'h		cloudy.
Alaska, Callao, Peru	30.01	762.2	59	15.0	88	calm			0		8			0	0	sm'h		cloudy.
Alert, N. 43° 11′, E. 177° 45′*	30.06	763.5	56	13.3	87	se.			1		10		calm	0	0	long	s.	cloudy.
Alliance, Boston, Mass.	29.85	758.2	60	15.6	82	sse.			3		10		light	light				drizzling.
Ashuelot, Yokohama, Japan*	29.71	754.6	70	21.1	85	sw.			2		2		calm					fair.
Brooklyn, Rio de Janeiro, Brazil	30.06	763.5	67	19.4	95	nw.	4	1.8			10		calm	0.05	1.3	sm'h		cloudy.
Colorado, New York, N. Y.	29.66	753.4	68	20.0	70	sw.	6	2.7			10		calm					raining.
Constellation, N. 37° 50′, W. 73° 25′*	29.78	756.4	69	20.6	100	s.			3		10		calm			sm'h		foggy.
Enterprise, Norfolk, Va*	29.78	756.4	77	25.0	95	sw.			3		5		sw.					fair.
Essex, St. Nicholas Bay, Patagonia	29.78	756.4	43	6.1	51	nw.			4		8?		nw.			sm'h	nw.	clear.?
Franklin, Norfolk, Va.	29.81	757.2	77	25.0	95	sw.	14	6.3			2		sw.	0.60	15.2			fair.
Galena, Alexandria, Egypt	29.93	760.2	76	24.4	100	nw.			2		0					sm'h		clear.
Independence, Mare Island, Cal.	29.92	760.0	57	13.9	87	sw.			2		8		sw.	0	0			clearing.
Iroquois, San Francisco, Cal.	29.93	760.2	56	13.3	87	wsw.			2		10			0	0			cloudy.
Kearsage, Norfolk, Va.	29.77	756.1	77	25.0	95	ssw.			2		8		ssw.					cloudy.
Lackawanna, Callao, Peru*	30.02	762.5	62	16.7	83	calm			0		10							cloudy.
Lancaster, Alexandria, Egypt*	29.89	759.2	82	27.8	83	nw.			3		0			0	0	sm'h		clear.
Marion, S. 34° 56′, W. 56° 13′	30.14	765.5	51	10.6	100	sse.			2		1		s.	0	0	sm'h		cloudy.
Michigan, Detroit, Michigan	29.62	752.3	70	21.1	75	w.			2		2		w.					fair.
Minnesota, Newport, R. I.	29.83	757.7	59	15.0	82	sse.	12	5.4			10		ssw.					squally.
Monocacy, Port Hamilton, Corea	29.80	756.9	74	23.3	70	calm			0		5		calm			sm'h		fair.
New Hampshire, Newport, R. I.	29.85	758.2	60	15.6	76	se.	4	1.8			10		s;e			sm'h	s;e.	cloudy.
Nipsic, Corfu, Ionian Islands*	29.92	760.0	82	27.8	58	se.			2		0					sm'h		clear.
Onward. Callao, Peru†	30.15	765.8	59	15.0	100	calm			0		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.68	753.9	76	24.4	73	ssw.			1		5		calm					fair.
Passaic, Washington, D. C.	29.75	755.6	74	23.3	100	sw.			2		10							cloudy.
Pensacola, S. 6° 37′, W. 81° 55′*	29.94	760.5	63	17.2	89	sse.			4		10		sse.	0	0	long	sse.	cloudy.
Portsmouth, N. 46° 30′, W. 7° 22′*	30.15	765.8	65	18.3	84	ne.			3		5					sm'h		fair.
Powhatan, N. 26° 31′, W. 80° 01′	30.14	765.5	81	27.2	83	ssw.			1–2		2					sm'h		clear.
Quinnebaug, N. 31° 33′ E. 29° 14′	29.92	760.0	80	26.7	74	nw.			2		0					sm'h		clear.
Ranger, Mare Island, Cal.	29.88	758.9	59	15.0	88	sw.			1		8		calm	0	0			cloudy.
Richmond, Yokohama, Japan*	29.72	754.9	73	22.8	85	ssw.			1		0			0	0			clear.
Saratoga, N. 46° 30′, W. 7° 24′	30.14	765.5	65	18.3	73	ne.			2		8		ne.	0	0	long	ne.	cloudy.
St. Louis, League Island, Pa.	29.90	759.4	74	23.3	90	s.	12	5.4			10			0.3	8.			cloudy.
Swatara, Yokohama, Japan*	29.64	752.8	73	22.8	81	ssw.			2		0					sm'h		clear.
Tennessee, New York, N. Y.	29.72	754.9	70	21.1	?	s.	4	1.8			10			1.92	48.8			rainy.
Vandalia, Portsmouth, N. H*	29.85	758.2	57	13.9	94	se.			2		10		calm					cloudy.
Wabash, Boston, Mass.	29.84	757.9	55	12.8	100	se.	14	6.3			10		se.	0.41	10.4			raining.
Wachusetts, N. 56° 21′, W 134° 20′	29.99	761.7	50	10.0	86	s.			1		8		calm	0	0	sm'h		cloudy.
Wyoming, Port Royal, S. C*	29.96	761.0	76	24.4	82	wsw.	10	4.5			2		calm	0.194	4.9			clear.
Yantic, N. 43° 23′ W. 69° 24′	29.93	760.2	62	16.7	88	nne.			2		10					sm'h		rainy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, Montreal, Canada*	29.71	754.6	69	20.6	.....	ene.	.....	.....	4	.....	10	.....	ene.	6 h'r	6 h'r	.....	.....	raining.
S. S. Nova Scotian, Halifax, N. S.	29.85	758.2	62	16.7	.....	nnw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
S. S. Scandinavian, Shannon river, Ireland*	30.00	762.0	62	16.7	.....	sw.	.....	.....	3	.....	10	.....	sw.	0	0	.....	.....	
S. S. Waldensian, N. 44° 19′, W. 45° 49′*	29.85	758.2	70	21.1	.....	wsw.	.....	.....	6	.....	5?	.....	sw.	0	0	mod.	sw.	cloudy.?
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, N. 40° 26′, W. 57° 47′*†	29.92	760.0	.....	.....	.....	wnw.	.....	.....	6	.....	8	.....	wnw.	0	0	mod.	wnw.	cloudy.
ANCHOR LINE.																		
S. S. Bolivia, N. 41° 13′, W. 49° 05′	.....	.....	69	20.6	.....	wsw.	.....	.....	3	.....	8	.....	w.	4 h'r	4 h'r	r'gh	s.	cloudy.
S. S. Ethiopia, N. 47° 35′, W. 36° 20′	30.05	763.3	64	17.8	89	s.	.....	.....	4	.....	9	.....	s.	0	0	slight	sw.	overcast.
S. S. Utopia, N. 41° 57′ W. 42° 26′†	30.30	769.6	72	22.2	85	s.	.....	.....	6	.....	10	.....	w.	8 h'r	8 h'r	.....	sw.	heavy rain.
ATLAS LINE.																		
S. S. Ailsa, N. 13° 35′, W. 77° 26′†	30.02	762.5	79	26.1	90	ne.	.....	.....	6	.....	8	.....	ne.	12 h'r	12 h'r	r'gh	ne.	squally.
S. S. Alvena, Port Antonio, Jamaica, W. I †	29.98	761.5	82	27.8	83	calm	.....	.....	0	.....	0	.....	.....	2 h'r	2 h'r	.....	.....	fine.
S. S. Alvo, N. 27° 40′, W. 74° 15′	30.18	766.6	.....	.....	.....	sw.	.....	.....	4	.....	2	.....	ssw.	0	0	mod.	sw.	fair.
S. S. Antillas, Mayaguez, Porto Rico, W. I.	30.20	767.1	.....	.....	.....	var.	.....	.....	1-2	.....	.....	.....	.....	.....	.....	.....	.....	squally.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Halifax, N. S.†	29.91	759.7	60	15.6	.....	nnw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	cloudy.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S 18° 17′, W. 80° 06′	30.10	764.5	72.3	22.4	85	sse.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	showery.
S. S. Auckland, S. 26° 54′, W. 22° 16′	30.18	766.6	73	22.8	67	ne.	.....	.....	4	.....	6	.....	.....	.....	.....	.....	.....	blue sky.
S. Baroda, S. 21° 30′, E. 57° 50′	30.31	769.9	73	22.8	67	sse.	.....	.....	5	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, N. 46° 05′, W. 16° 50′	30.26	768.6	60.5	15.8	97	n to nw	.....	.....	2	.....	9	.....	.....	.....	.....	.....	.....	drizzling.
S. S. City of Agra, N. 28° 18′, W. 20° 45′	30.21	767.3	70.5	21.4	88	ne.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	.....	overcast.
S. S. Glencairn, N. 9° 57′, W. 28° 30′	30.17	766.3	80	26.7	91	ne.	.....	.....	5	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Gordon Castle, N. 28° 35′, E. 33° 03′	29.77	756.1	87	30.6	52	nw.	.....	.....	6	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Markland, S. 23° 15′, W. 131° 12′	30.24	768.1	71.2	21.8	93	e.	.....	.....	2	.....	1	.....	.....	.....	.....	4	ese.	blue sky.
May Hulse, S. 29° 53′, W. 27° 45′	30.04	763.0	68	20.0	94	ene.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
S. Oamaru, S. 23° 28′, E. 54° 30′	30.40	772.1	69.5	20.8	71	ese.	.....	.....	6	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
Pole Star, N. 5° 13′ W. 29° 50′	30.07	763.8	80.5	26.9	91	ese.	.....	.....	3	.....	5	.....	.....	.....	.....	.....	.....	showery.
S. S. Rosette, N. 3° 02′, W. 105° 24′	29.85	758.2	84	28.9	79	sse.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
CROMWELL LINE.																		
S. S. Hudson, N. 28° 55′, W. 79° 40′†	30.13	765.3	80	26.7	.....	sw.	.....	.....	5	.....	4	.....	sw.	0	0	mod.	sw.	fair.
CUNARD LINE.																		
S. S. Marathon, N. 50° 50′, W. 21° 15′	30.20	767.1	58	14.4	.....	wsw.	.....	.....	3	.....	5	.....	w.	4 h'r	4 h'r	sm'h	w.	fine.
S. S. Scythia, N. 40° 53′, W. 56° 04′	29.93	760.2	67	19.4	79	w.	.....	.....	6	.....	7	.....	wsw.	0	0	long	w.	cloudy.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Ville de Marseilles, Marseilles, France*†	29.85	758.2	80	26.7	.....	nnw.	.....	.....	6	.....	3	.....	.....	0	0	sm'h	.....	clear.
GUION LINE.																		
S. S. Wisconsin, N. 41° 42′, W. 49° 34′†	29.84	757.9	71	21.7	90	w.	.....	.....	2	.....	8	.....	w.	6 h'r	6 h'r	mod.	wnw.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 47° 25′, W. 29° 50′†	30.18	766.6	.....	.....	.....	calm	.....	.....	0	.....	9	.....	w.	light	light	long	ssw.	raining.
S. S. Cimbria, N. 47° 38′, W. 31° 52′	30.18	766.6	63	17.2	.....	nne.	.....	.....	3	.....	10	.....	w.	4 h'r	4 h'r	mod.	wnw.	foggy.
S. S. Herder, N. 40° 56′, W. 51° 22*†	29.90	759.4	76	24.4	.....	wsw.	.....	.....	6	.....	4	.....	wnw.	2 h'r	2 h'r	high	w.	cloudy.
S. S. Silesia, Hamburg, Germany†	30.11	764.8	.....	.....	.....	se.	.....	.....	1	.....	10	.....	.....	2 h'r	2 h'r	.....	.....	overcast.
S. S. Wieland, N. 49° 20′, W. 14° 15′	30.26	768.6	62	16.7	.....	nnw.	.....	.....	2	.....	10	.....	nnw.	0	0	2	wsw.	cloudy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 40° 44′ W. 64° 00′	29.99	761.7	.....	.....	.....	w.	.....	.....	2	.....	5	.....	w.	0	0	.....	.....	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Liverpool, Eng*†	30.29	769.4	64	17.8	.....	wsw.	.....	.....	4	.....	5?	.....	w.	0	0	.....	.....	cloudy.?
MALLORY LINE.																		
S. S. Colorado, New York, N. Y †.	29.70	754.4	63	17.2	.....	sse.	.....	.....	2	.....	10	.....	sse.	12 h'r	12 h'r	.....	.....	cloudy.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, Santos, Brazil	29.64	752.8	.....	.....	.....	wsw.	.....	.....	4	.....	.....	.....	sw.	2 h'r	2 h'r	.....	.....	fine.
S. S. Glenapp, N. 10° 42′, W. 52° 58′†	30.05	763.3	.....	.....	.....	ene.	.....	.....	3	.....	2	.....	ne.	0	0	mod.	ne.	fine.
NATIONAL LINE.																		
S. S. Canada, N. 44° 01′, W. 37° 53′†	30.04	763.0	69	20.6	.....	ssw.	.....	.....	3	.....	9	.....	wsw.	0	0	high	cross	misty.
S. S. Denmark, London, Eng	30.10	764.5	62	16.7	.....	nw.	.....	.....	4	.....	2	.....	wnw.	0	0	.....	.....	clear.
S. S. Erin, N. 50° 40′, W. 15° 39′	30.17	766.3	59	15.0	.....	wsw.	.....	.....	3	.....	10	.....	w	0	0	sm'h	.....	foggy.
S. S. Greece, N. 41° 00′ W 57° 52′	29.91	759.7	.....	.....	.....	nw.	.....	.....	4	.....	2	.....	nw.	0	0	mod.	nw.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Saratoga, N. 36° 20′, W. 74° 00′†	30.00	762.0	78	25.6	86	sw.	.....	.....	5	.....	5	.....	.....	0	0	mod.	s.	hazy
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Frontera Roads, Mexico†	30.09	764.3	80	26.7	95	ne.	.....	.....	2	.....	2	.....	ene.	0	0	small	ene.	clear.
S. S. City of Washington, N. 33° 53′ W. 75° 44′*†	30.05	763.3	85	29.4	.....	sw.	.....	.....	4	.....	2	.....	sw.	0	0	light	sw.	fine.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 40° 48′, W. 66° 55′*†	30.00	762.0	56	13.3	.....	ese.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	rainy.
NORTH GERMAN LLOYD																		
S. S. America, N. 48° 23′, W. 25° 00′*	30.28	769.1	67.1	19.5	.....	ese.	.....	.....	1-2	.....	5	.....	se.	0	0	sm'h	.....	foggy.
S. S. Elbe, Bremerhaven, Germany	30.02	762.4	60.8	16.0	90	calm	.....	.....	0	.....	8	.....	.....	0	0	.....	.....	cloudy.
S. S. Habsburg, N. 49° 49′, W. 12° 16′	30.21	767.3	62.6	17.0	.....	nnw.	.....	.....	1-2	.....	10	.....	nnw.	4 h'r	4 h'r	long	wsw.	cloudy.
S. S. Hermann, N. 49° 51′, W. 11° 28′	30.18	766.6	63.5	17.5	.....	w.	.....	.....	4	.....	2	.....	w.	0	0	high	w.	fair.
S. S. Leipzig, N. 38° 04′, W. 70° 12′	29.85	758.2	77.0	25.0	?	se.	.....	.....	4	.....	10	.....	s.	1 h'r	1 h'r	mod.	s.	squally.
S. S. Oder, N. 40° 50′, W. 71° 36′	29.82	757.4	60.8	16.0	.....	ese.	.....	.....	5	.....	10	.....	e.	6 h'r	6 h'r	sm'h	s.	rainy.
S. S. Ohio, Bremerhaven, Germany	.....	.....	.....	.....	.....	e.	.....	.....	4	.....	2	.....	ne.	0	0	.....	.....	fair.
S. S. Salier, N. 40° 54′, W. 50° 41′	29.96	761.0	63.5	17.5	.....	w.	.....	.....	5	.....	8	.....	w.	4 h'r	4 h'r	h'vy	w.	cloudy.
OCCIDENTAL AND ORIENTA. STEAMSHIP COMPANY.																		
S. S. Belgic San Francisco, Cal†	30.15	765.8	60	15.6	89	sw.	.....	.....	5	.....	8	.....	sw.	.....	.....	.....	.....	foggy.
S. S. Coptic, N. 41° 38′, E. 161° 44′	30.14	765.5	49.0	9.4	96	w.	.....	.....	1	.....	10	.....	w.	0	0	.....	.....	foggy.
S. S. Gaelic, N. 47° 37′, W. 176° 58′†	30.22	767.6	51	10.6	59	var.	.....	.....	1	.....	10	.....	n.	.....	.....	light	nw.	overcast.
S. S. Oceanic, N. 27° 27′, E. 123° 32′*	29.75	755.6	81	27.2	91	sw.	.....	.....	3	.....	8	.....	sw.	.....	.....	2	sw.	showery.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	29.69	754.1	.....	.....	.....	ssw.	.....	.....	1	.....	10	.....	.....	rain	rain	.....	.....	smoky.
S. S. Seminole, N. 35° 05′, W. 75° 25′	.....	.....	85	29.4	87	sw.	.....	.....	3	.....	2	.....	w.	0	0	cross	wsw.	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 38° 54′, W. 122° 52′†	29.85	758.2	52	11.1	100	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	.....	dense fog.
S. S. Oregon, Portland, Oregon†	30.01	762.2	60	15.6	82	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 37° 07′, W. 122° 24′†	29.80	756.9	56	13.3	93	nw.	.....	.....	3	.....	10	.....	w.	.....	.....	mod.	nw.	rainy.
S. S. Dakota, N. 45° 08′, W. 127° 56′*†	30.02	762.5	58	14.4	87	nw.	.....	.....	4	.....	2	.....	nw.	.....	.....	light	nw.	clear.
S. S. State of California, San Francisco, Cal.†	29.86	758.4	54	12.2	?	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	foggy.
S. S. Victoria, Nanaimo, Vancouver's I'd.†	29.90	759.5	57	13.9	93	calm	.....	.....	0	.....	.....	.....	.....	0	0	sm'h	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	30.16	766.1	70	21.1	95	w.	.....	.....	4	.....	5	.....	w.	0	0	.....	.....	clear.
S. S. City of Pekin, N. 28° 52′, E. 132° 34′†	29.73	755.1	78	25.6	82	ne.	.....	.....	4	.....	5	.....	ne.	0	0	sm'h	.....	fair.
S. S. City of Sydney, Sydney, N. S. W.†	30.01	762.2	50	10.0	65	w.	.....	.....	4	.....	5	.....	w.	0	0	sm'h	.....	fair.
S. S. City of Tokio, N. 37° 34′, W. 124° 38′†	29.98	761.5	55	12.8	74	w.	.....	.....	2	.....	10	.....	.....	0	0	light	nw.	hazy.
S. S. Colima, Acapulco, Mexico†	29.93	760.2	75	23.9	95	calm	.....	.....	0	.....	9	.....	calm	0.75	19.0	.....	.....	cloudy.
S. S. Granada, Panama, Panama†	29.93	760.2	78	25.6	100	ne.	.....	.....	1	.....	8	.....	n.	3 h'r	3 h'r	.....	.....	rainy.
S. S. Zealandia, N. 14° 40′, W. 160° 53′	30.01	762.2	79	26.1	91	ne.	.....	.....	2	.....	8	.....	n.	.....	.....	mod.	ne.	cloudy.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, Antigua, W. I.	29.95	760.7	82	27.8	.....	ene.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	.....	fair.
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	30.09	764.3	67	19.4	64	w.	.....	.....	2	.....	fg.	.....	.....	0	0	.....	.....	overcast.
S. S. Nederland, N. 40° 41′, W. 71° 23′†	29.94	760.5	60	15.6	.....	e.	.....	.....	2	.....	10	.....	.....	12 h'r	11 h'r	sm'h	.....	rainy.
S. S. Rhynland, Antwerp, Belgium	30.12	765.0	62	16.7	83	wnw.	.....	.....	4	.....	10	.....	wnw.	0	0	.....	.....	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE—Continued.																		
S. S. Switzerland, N. 39° 16′ W. 59° 15′†	30.10	764.5				wnw.			3		10		wnw.	0	0	mod	wnw.	cloudy.
S. S. Vaderland, N. 44° 35′ W. 35° 00′	29.97	761.2	72	22.2	95	ssw.			3		0			3 h'r	3 h'r	sm'h		foggy.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 40° 32′, W. 61° 24′*	30.02	762.5	69.8	21.0	81	n.			4		6		nw.	0	0	r'gh	nw.	fair.
STATE LINE.																		
S. S. State of Florida, N. 40° 18′, W. 64° 16′	29.95	760.7	67	19.4		ene.			3		9		e.	0	0	sm'h		fair.
S. S. State of Indiana, N. 43° 24′, W. 47° 00′†	30.08	764.0	60.0	15.6		wsw.			4		3		wsw.	3 h'r	3 h'r	mod.	wsw.	clear.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 47° 27′, W. 41° 45′†	30.11	764.8	66.2	19.0		sse.			3		10		sse.	3 h'r	3 h'r	mod.	sse.	raining.
WARREN LINE.																		
S. S. Iowa, N. 41° 30′, W. 55° 04′*†	30.01	762.2	65	18.3		w.			6		7		w.	1 h'r	1 h'r	mod.	wsw.	cloudy.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 50° 45′. E. 0° 45′	30.10	764.5									0					sm'h		fine.
WHITE STAR LINE.																		
S. S. Baltic, Off Sandy Hook, N. J.†	29.74	755.4	66	18.9	94	ssw.			2		10		sw.	2 h'r	2 h'r	light	sw.	drizzling.
S. S. Britannic, N. 51° 17′, W. 15° 32′†	30.21	767.3	57	13.9	94	w.			4		10		w.			mod.	w.	overcast.
S. S. Celtic, New York, N. Y†	29.71	754.6	68	20.0	70	ese.			2		10			8 h'r	8 h'r			hazy.
S. S. Germanic, N. 49° 46′, W. 23° 33′†	30.30	769.6	56	13.3		sse.			1		10		se.			mod	w.	foggy.
S. S. Republic, N. 40° 44′ W. 62° 51′†	30.16	766.1	65	18.3	73	nnw.			4		7		nw.	0	0	mod.	nw.	d. clouds.
WILSON LINE.																		
S. S. Otranto, N. 40° 34′, W. 72° 56′†	29.79	756.7	67	19.4		sse.			6		10		sse.			cross		hazy.
S. S. Romano, N. 39° 52′, W. 69° 00′	29.76	755.9	64	17.8		se.			3		10		se.	12 h'r	12 h'r	sm'h		overcast.
MISCELLANEOUS.																		
Schr. Addie Fuller, Bath, Me†	29.96	761.0	58	14.4	100	sse.					10 n							drizzling.
Schr. Ajax, Indianola, Texas						calm			0		8		sse	0	0			cloudy.
Bk. Alpha, New York, N. Y†	29.71	754.6	69	20.6		s.			2		10			10 h'r	10 h'r			light rain.
Schr. Annie Lewis, N. 28° 40′, W. 89° 42′†	30.26	768.6	85	29.4		s.			3		5?		s.	0	0	long	s.	cloudy.†
Bk. Anna Thorman, S. 32° 52′, W. 21° 41′	30.06	763.5	65.8	18.8	94	wnw.			5		10 n		wnw.	6 h'r	6 h'r	mod.	sw.	rainy.
S. S. Antonio Lopez, Barcelona, Spain	29.95	760.7	77	25.0	65	sw.			5		4			0	0			fair.
Schr. Asa Eldridge, N. 25° 27′, W. 81° 45′†	30.20	767.1				se.			3		1		e.	0	0	sm'h		fair.
Bk. Aureola, S. 23° 04 W. 40° 55′†*	30.15	765.8	70	24.4		sw.			2		9		sw.	2 h'r	2 h'r	long	ne.	overcast.
Bk. Bergenseren, N. 40° 13′ W. 69° 30′†	29.75	755.7				se.			3				s.	0	0	sm'h		hazy.
Bk. Cato, N. 39° 55′, W. 48° 33′*†	30.37	771.4				wsw.			3		3		wnw.	0	0	long	sw.	fair.
Schr. C. R. Flint, Cedar Keys, Florida†	30.32	770.1	83	28.3		sw.			3		5		wsw.	4 h'r	4 h'r			cloudy.†
Schr. Edith R. Seward, N. 24° 25′, W. 64° 20′*†	30.29	769.4	86	30.0		sse.			1		2		calm	0	0	sm'h	sse.	clear.
S. E. J. Spicer, N. 41° 36′, W. 61° 52′†	30.05	763.3				nw.			2		2		wsw.	0	0	mod.	wsw.	
Bk. Essex, S. 22° 34, W. 29° 21′*†	30.12	765.0	75	23.9		n.			4		5?		nne.	3 h'r	3 h'r	long	ese.	cloudy?
Bk. Freya, N. 41° 23′, W. 56° 27′			64	17.8		w.			7		10		wnw.	2 h'r	2 h'r	high	w.	cloudy.
S. Grecian, Hong Kong, China*†	29.85	758.2	84	28.9		calm			0		2		sw.	0	0			clear.
Bk Hattie G. McFarland, Portland, Me*†	29.90	759.4	59	15.0		sse.			1		10		se.	16 h'r	16 h'r			stormy.
S. Hedwig, N. 36° 02′, W. 7° 14′	29.93	760.3	74.8	23.8	91	ese.			1		0			0	0	2	nw.	fair.
S. Ismir, S. 44° 25′ E. 9° 00′†	30.02	762.5				wnw.			6		9		wnw.	3 h'r	3 h'r	long	wnw.	dense mist.
S. Ivy, N. 28° 45′ W. 126° 30′†	30.16	766.1	61	16.1		n.			1		10		n.	0	0	mod	n.	cloudy.
Schr. Jennie N. Huddell, Camden, N. J†	29.85	758.2	74	23.3	95	ssw.			1		10			light	light			light rain.
Schr. John L. Thomas, Vivorilla Cays, Mosquito Coast*†	30.06	763.5				e.			6		3		ese.	1 h'r	1 h'r			fair.
Bg. John Wesley, N. 35° 47′ W. 74° 53′†	29.72	754.9				nw.			3		1			1 h'r	1 h'r	cross	s.	clear.
Bk. Joseph A. Ropes, N. 23° 35′, W. 36° 43′*†	30.34	770.6	80	26.7	74	ene.			4		8		ene.	0	0	mod.	ene.	cloudy.
S. S. Lamperts, N. 14° 09′, E. 42° 40′*	29.72	754.9	90.0	32.2	73	se.			5		4 k							d. clouds.
Light House Tender, Laurel, Carysfort Reef, Fla†	30.19	766.8	86	30.0		s.			1		2		s.	0	0			clear.
S. S. Malabar, N. 43° 43′, E. 155° 11′*†	29.94	760.5				se.			2		10		se.	0	0	sm'h		foggy.
S. S. Nebo, Frith of Clyde, Scotland*†	30.20	767.1				s.			2		10		sse.	0	0			cloudy.
Bk. Orpheus, N. 44° 47′. W. 25° 25′	30.36	771.1	70	21.1		wsw.			3		10 k		w.			sm'h	w.	hazy.
S. Paramita, S. 37° 07′, W. 99° 50′†	29.70	754.4	59	15.0		nw.			1–7		6		wsw.	2 h'r	2 h'r	long	wnw.	raining.
S. S. Ponca, S. 0° 41′, W. 45° 30′†	29.95	760.7	88	31.1		e.			2		1		ese.	0	0	light	ese.	clear.
Bk. Rosebud, S. 34° 02′, E. 7° 24′*†	30.10	764.5	60	15.6	88	e.			3		8		nw.	4 h'r	4 h'r	long	w.	gloomy.
S. S. Sunbeam, N. 37° 14′, E. 9° 03′	29.99	761.7	74	23.3	81	nne.			1		8		ne.					misty.
S. Sovereign of the Sea, N. 22° 20′, W. 39° 10′*†	30.18	766.6	78	25.6	86	e.			2–5		9			sh'rs	sh'rs	chop	ese.	overcast.
Bg. Teneriffe, Cardenas, Cuba, W. I	30.10	764.5				ne.			1									
Bk. Truro, N. 50° 18′, W. 16° 45′*†	30.15	765.8				wsw.			3		10		w.	0	0	sm'h		cloudy.
U. S. F. C. S. S. FishHawk, Washington, D. C†	29.94	760.5	76	24.4	100	wsw.			3		8		wsw.	0.09	2.3			cloudy.
S. S. Victoria J. Peed, Savanilla, U. S. C						se.			2		8							
Schr. Viola Reppard, N 35° 53′ W. 74° 41′†	29.85	758.2	84	28.9		wsw.			4		8		wsw.	0	0	short	wsw.	
Bk Wm. Wilcox, S. 16° 55′, W. 35° 20′*†	30.25	768.3	80	26.7		nne.			3		2		nne.	0	0	sm'h		fair.
S. Wm. Woodbury, N. 41° 09′, W. 36° 38′*	30.33	770.4	74	23.3	72	sw.			6		5?		sw.	0	0	long	wsw.	clear.?

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 2, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.95	760.7	77.0	25.0	64	se.			2		1			0	0	fair	Bouvier.
Algiers			30.00	762.0	79.2	26.2	64	ne.			1		0			0	0	clear	Nicolas.
La Calle			29.95	760.8	79.2	26.2	95	nne.			2		0			0	0	clear	Fonfrède.
Tunis			29.96	760.9															Jacques.
Saida			30.03	762.7	89.2	31.8	32	n.			1		2			0	0	fair	Perès.
Tebessa			30.03	762.7	87.4	30.8	37	n.			1		2			0.394	10.0	fair	Derché.
Geriville					95.0	35.0	3	w.			3		2			0.020	0.5	fair	Lonchamp.
Laghouat			30.06	763.5	98.6	37.0	37	w.			1		2			0	0	fair	Abraham.
Biskra			30.04	763.1	99.3	37.4	20	se.			1		2			0	0	fair	Malau.
Australian.																			
Melbourne, Victoria	29.81	757.2	29.90	759.4	51.6	10.9	63	n.	26	11.6			6					fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.31	744.4	29.84	757.9	67.6	19.8	81	sw.			3		8			0.118	3.0	raining.	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.16	740.6	29.92	760.0	55.8	13.2	78	ne.	9.8	4.4			10			0.437	11.1		Dr. Wierzbiski.
Eperies	28.91	734.2	29.77	756.2	56.8	13.8	82	n.			2		10 ns		s.	0.937	23.8		Julius Mikolik.
Gratz	28.62	727.0	29.83	757.6	68.5	20.3	76	n.			4		5			0.606	15.4		Andreas Rospini.
Hermannstadt	28.27	718.1	29.65	753.0	67.1	19.5	89	nnw.			2		10			0.134	3.4	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.63	727.2	29.96	760.9	56.8	13.8	94	calm			0		10			1.122	28.5	raining.	The Staff.
Lemberg	28.84	732.6	29.82	757.5	52.9	11.6	95	ne.			2		10			2.051	52.1		Dr. T. Stanecki.
Pola	29.75	755.6	29.85	758.3	74.8	23.8	48	e.			4		3			0.020	0.5		I. R. Hydrographic Office.
Szathmar	29.18	741.1	29.62	752.3	68.7	20.4	84	s.			2		9			0.618	15.7	thnd'r st'rm	Joseph Midlinszky, S. J.
Szegedin	29.42	747.3	29.69	754.1	68.4	20.2	78	sw.			3		10			0.287	7.3		Karl Stancel.
Trieste	29.78	756.3	29.88	758.9	75.7	24.3	67	calm			0		10			0.106	2.7		Royal Academy.
Vienna	29.21	741.8	29.90	759.5	64.4	18.0	58	nw.			2		10			0.024	0.6		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.93	760.2	30.03	762.7	60.1	15.6	82	sse.	11	4.9			2			0.365	9.3	foggy	W. Boswell
Armagh, Observatory					64.2	17.9	76	w.	3	1.3									S. Call.
Bidston, Liverpool Obs'y			30.09	764.3	67.4	19.7	73	nw.	10	4.5			0					blue sky	John Hartnup.
Bolton, Sharples	29.54	750.3	30.07	763.8	67.7	19.8	66	nnw.	3	1.3			5					d. clouds	Thomas Mackereth, Jton.
Bradford, Yorkshire																0.01	0.3		McLandsborough & Pres-
Bridgetown, Barbadoes	30.06	763.5	30.09	764.3	84.0	28.9	71	ne.			1		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			30.10	764.5	67.6	19.8	72	e.			0.4		8					overcast	John McLaren.
Chatham, School M. E.	30.00	762.0	30.13	765.3	69.5	20.8	64	ne.			1		3					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.92	760.0	30.15	765.8	66.7	19.3	66	nw.			1		7						The Staff.
Fort Napier, Natal	27.81	706.4	30.03	762.7	74.0	23.3	31	ne.			1		1					blue sky	Pvt. Lane, A. H. C.
Free Town, Sierra Leone	29.67	753.6	29.90	759.4	80.0	26.7	86	w.			1		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.99	761.7	30.04	763.0	80.1	26.7	74	w.			2		2					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.75	755.0	29.96	761.0	67.7	19.8	66	sw.			2		5					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.94	760.5	30.11	764.8	70.2	21.2	52	nne.			1		1					blue sky	The Staff.
Guernsey	29.85	758.2	30.14	765.5	61.0	16.1	91	n.			1		10					foggy	A. Collenette, F. M. S.
Kew, Observatory	30.08	764.0	30.12	765.0	67.2	19.6	60	ne.	6	2.7			8					misty	The Staff.
Leicester, Museum	29.82	757.4	30.07	763.8	66.5	19.2	70	sw.			1		10					overcast	J. O. Smith.
Malta, Mediterranean	29.83	757.7	29.90	759.4	83.4	28.6	58	nw.			2		2					blue sky	I. H. Whysall.
Nassau, Bahamas	30.10	760.1	30.21	767.3	88.0	31.1	68	sw.			1		8					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.58	751.3	30.08	764.0	69.4	20.8	65	sse.			1		4					d. clouds.	Warren Middleton.
Oxford, Radcliffe Obs'y	29.88	758.9	30.11	764.8	68.5	20.3	62	e.			1		6					misty	The Staff.
Plymouth	30.04	763.0	30.12	765.0	70.2	21.2	71	sw.			3		3					blue sky	John Merrifield.
Sandwick Manse, Orkneys			30.02	762.5	56.9	13.8	99						10					raining	Rev. C. Clouston, L. L.D
Scutari Cemetery, Turkey	29.69	754.1	29.76	755.9	83.6	28.7	47	s.			1		0			blank	blank	blue sky	W. H. Lyne.
Sheffield	29.81	757.2	30.08	764.0	71.3	21.8	67	s.			1		10			0.10	2.5	overcast	W. F. Cooper.
Silloth Rectory	30.04	763.0	30.07	763.8	70.7	21.5	69	w.			2		3			0.015	0.4	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.11	764.8	69.0	20.6	88	wsw.	9	4.0			10					misty	Rev. S. J. Perry.
Strathfield Turgiss	29.90	759.4	30.11	764.8	70.4	21.3	65	e.			0-1		9					d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.14	765.5	30.15	765.8	71	21.7	61	nw.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.17	766.3	30.19	766.8	62.1	16.7	83	wnw.	11	4.9			10			blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.67	753.6	29.71	754.6	49	9.4	94	e.	12	5.4			10 n		calm	0.866	22.0	light rain	H. J. Cundall, C. E.
Chatham, N. B*	29.68	753.9	29.74	755.4	51	10.6	93	ne.	5	2.2			10 n		ne.	0.41	10.4	light rain	G. A. Blair.
Father Point, Quebec*	29.70	754.4	29.73	755.1	45	7.2	100	ne.	27	12.1			10 n		ne.	0.25	6.3	light rain	J. McWilliams.
Fort Garry, Manitoba*	29.21	741.9	30.02	762.5	55	12.8	93	se.	10	4.5			10 n		se.	0.084	2.1	raining	James Stewart.
Halifax, N. S*	29.47	748.5	29.60	751.8	51	10.6	96	ne.	11	4.9			fg			0.596	15.1	light rain	A. Allison.
Kingston, Ontario*	29.43	747.5	29.76	755.9	57	13.9	80	n.	12	5.4			8 k		nw.	0.10	2.5	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.38	746.2	29.58	751.3	55	12.8	80	nw.	14	6.3			10 ks		n.	0.80	20.3	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.21	741.9	29.89	759.2	53	11.7	90	nw.	7	3.1		2 k	0	nw.		0.17	4.3	fair	Rev. R. Mosley.
Port Dover, Ontario	29.27	743.4	29.96	761.0	54	12.2	93	nw.	7	3.1		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.34	745.2	29.98	761.5	54	12.2	86	w.	6	2.7		0	5 k		nw.	inap.	inap.	fair	M. Payne.
Quebec, Quebec*	29.25	742.9	29.57	751.1	49	9.4	100	e.			7		10 n		e.	0.85	21.6	heavy rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.33	745.0	29.78	756.4	54	12.2	80	nw.	8	3.6			8 ks		nw.	0.40	10.3	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.25	742.9	29.96	761.0	51	10.6	86	nw.	18	8.0		0	0			inap.	inap.	clear	
St. Andrews, N. B	29.51	749.5	29.56	750.8	50	10.0	98	e.	3	1.3			fg.			0.32	8.1	foggy	
Sydney, C. B*	29.75	755.6	29.81	757.2	48	8.9	89	e.	12	5.4			10 n		e.	0.05	1.3	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.56	750.8	29.94	760.5	56	13.3	72	nw.	14	6.3		0	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.39	746.5	29.46	748.3	55	12.8	100	se.	7	3.1			fg.			0.22	5.6	dense fog	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.56	725.4	30.03	762.7	49.0	9.4	96	nw.			6	5 s	5 s	nw.		0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.97	761.2	30.23	767.8	45	7.2	100	n.	3	1.3			10			0	0	misty	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.98	761.5	30.01	762.2	69.0	20.6	64	calm	8.7	3.9		8 ck	0			0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.01	762.2	30.05	763.3	61.4	16.3	86	nnw.	19	8.5		1	6			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.74	755.3	29.76	755.9	68.2	20.1	95	e.	8.9	4.0			10 n			1.189	30.2	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.01	762.2	30.06	763.4	66.6	19.2	50	ssw.	11	5			1						Oversergent Fischer.
Fanöe	30.05	763.2	30.07	763.7	60.6	15.9	75	nw.			4		10						Overloerer Lauridsen
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.66	753.4	29.71	754.5	45.0	7.2	90	se.			4		10						A. O. Thorlacius.
Thorshavn	29.85	758.3	29.89	759.2	57.4	14.1	78	ssw.	18	8			10						Overloerer Bergh.
Vestervig	29.95	760.8	30.04	763.1	62.1	16.7	80	nw.			4		0						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.47	748.4	30.10	764.5	72.0	22.2	64	nw.			1		kn		n.	0	0		M. Labroue, Director.
Alençon, Normal School	29.57	751.0	30.12	765.0	68.4	20.2	80	sw.			2		n			0	0		M. Nicot, Director.
Arras, Engineer School	29.75	755.6	30.00	762.0	66.4	19.1	89	w.			3	ck	0	w.		0	0		M. Fénéon, Command't.
Avignon, Normal School	29.85	758.2	29.93	760.2	76.3	24.6	49	nnw.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.54	750.3	30.08	764.1	65.3	18.5	73	e.			1		5		n.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.87	758.7	30.13	765.3	66.6	19.2	60	nnw.			1		10		n.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.13	739.9	30.00	762.0	67.3	19.6	77	w.			1	0	2 kn		sw.	0.43	11.	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.85	758.1	30.10	764.6	68.5	20.3	76	nw.			1		10		nw.	0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.60	751.7	30.13	765.4	68.0	20	55	nnw.			2		k		nnw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.93	760.2	30.17	766.4	64.8	18.2	81	nw.			1		10		nw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.13	765.4	30.21	767.3	68.4	20.2	62	w.			1		5		s.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.71	754.7	30.02	762.0	73.4	23.0	54	w.			2		10		w.	0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.52	749.7	30.02	762.4	66.9	19.4	51	n.			1					0	0		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.73	729.7	30.04	763.1	69.8	21.0	44	n.			2		5			0.020	0.5	½ covered	M. Allnard, Director.
Cluny, Normal School	29.22	742.2	30.04	763.1	69.4	20.8	57	nw.			1		2		nw.	0.098	2.5		M. de Villemontée, Dir.
Commercy, Normal School	29.22	742.1	30.06	763.6	67.1	19.5	65	wnw.			2		5 kn	wnw.	wnw.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.41	696.3	29.82	757.3	78.8	26	28	ne.			4	3	6 ks		ne.	0	0		M. Jeanginard, Director.
Gréasque, du Rhone	28.82	732.0	29.88	758.9	81.7	27.6	35	w.			1		2		sw.	0	0		M. Kinn, Director.
Grenoble, Normal School	29.23	742.4	29.97	761.2	70.9	21.6	53	nw.			2	ck	0			0.047	1.2		M. Ablard, Director.
Guéret, Normal School	28.52	724.4	30.06	763.4	68.9	20.5	51	nw.			2	0	2 k		ne.	0	0	slightly cld'y	M. Rivoire, Director.
Lamballe, Normal School	29.90	759.5	30.18	766.5	52.9	11.6	95	nw.			1		1		nw.	0	0	light fog	M. Olliffrault, Director.
Lescar, Normal School	29.57	751.1	30.13	765.2	68.0	20.0	67	w.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.03	762.8	30.13	765.4	77.0	25.0	50	calm			0		2		calm	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.00	736.7	30.03	762.8	70.2	21.2	41	nnw.			2		k		nw.	0.016	0.4		M. André, Director.
Mans, Normal School	29.85	758.3	30.16	766.0	67.1	19.5	71	n.			1		5		n.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.64	752.9	29.90	759.5	79.5	26.4	37	wnw.			3		4			0	0		M. Stephan, Director.
Montlouis	24.93	633.2	29.77	750.2	62.2	16.8	55	sw.	11.2	5.0			7	w.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.81	757.2	29.94	760.4	86.0	30	33	wnw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.27	743.4	30.04	762.9	66.9	19.4	66	ssw.			1		k		sw.	0.335	8.5		M. Hasse, Director
Nantes, Observatory	30.00	762.1	30.17	766.2	73.9	23.3	52	ene.			0–2		9			0	0		M. Larocque, Director.
Perpignan, Observatory	29.90	759.5	30.01	762.2	79.9	26.6	40	nw.	20.6	9.2			3	w.	wnw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.36	542.6			45.0	7.2		sw.			1		10		sw.	0.024	0.6	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.95	735.4	29.97	761.2	77.0	25.0	36	n.			1					0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.26	641.7			50.0	10.0	81	nnw.			3	0	5 k			0.079	2.0	½ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.08	764.0	30.11	764.8	77.2	25.1	93	w.			1		1		w.	0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.89	759.1	30.10	764.4	74.5	23.6	58	nne.			1		5			0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.95	709.8	30.02	762.6	72.3	22.4	44	nw.			2	0	5 k		se.	0.012	0.3	fair	M. Seger, Director.
Rouen, Normal School	30.09	764.2	30.13	765.4	67.3	19.6	58	n.			2		5	n.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.97	761.2	30.13	765.4	63.9	17.7	65	nnw.			1		10		n.	0	0		M. Renou, Director.
Toulouse, Observatory	29.42	747.2	30.14	765.6	75.2	24.0	66	w.			1		2			0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.95	760.7	30.13	765.2	68.7	20.4	69	n.			1		10		sw.	0	0	covered	M. de Tastes.
Versailles, Observatory	29.64	752.8	30.13	765.3	65.5	18.6	59	ne.			2					0	0		Dr. A. Berigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.85	758.1	30.14	765.5	62.6	17.0	67	n.			1		10		nnw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.17	740.8	30.02	762.5	64.0	17.8	80	w.			2	0	8 k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.94	760.5	30.11	764.9	70.9	21.6	41	ne.			2		7			0	0		Prof. Dr. Arndt.
Breslau	29.48	748.7	30.01	762.2	66.0	18.9	30	ne.			2		0			0	0		Royal University Obs'y.
Carlsruhe	29.56	750.7	29.99	761.7	62.6	17.0	94	se.			1		9	nw.		0.177	4.5	raining	Albert Senz.
Cassel	29.26	743.2	29.97	761.3	63.0	17.2	79	s.			1		10	s.		0.122	3.1	thund'r st'm	Dr. H. Möhl.
Frankfort-on-the-Main	29.60	751.7	29.95	760.7	68.0	20.0	65	ne.			1		6			0.689	17.5		Physical Society.
Friedrichshafen	28.58	725.9	29.97	761.3	67.6	19.8	75	ssw.			2		0	sw.		0.150	3.8		Wilhelm, Chief Tel.
Hamburg	29.97	761.2	30.06	763.0	65.1	18.4	51	ene.			2		4			0	0		E. Preller.
Kiel	30.05	763.3	30.07	763.7	63.3	17.4	37	ne.			2		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.61	752.0	30.02	762.5	65.1	18.4	62	ne.			1		9			0	0		H. Leppig, Asst.
Magdeburg	29.82	757.5	30.01	762.3	70.0	21.1	45	ene.			1	0	8 ks		ne.	0	0		Dr. Assmann.
Memel	30.02	762.5	30.07	763.7	63.5	17.5	64	wnw.			4		0					clear	Issermann.
Munich	28.19	715.9	30.05	763.2	61.0	16.1	75	w.			4		10	w.		0.171	1.8	lightning	Dr. C. Lang.
Neufahrwasser	30.03	762.7	30.04	763.1	62.1	16.7	41	nne.			1		1			0	0		A. Lothes.
Neustadt, Palatinate	29.43	747.6	29.96	761.0	69.8	21.0	51	calm			0		5			0	0		Dicknether.
Stuttgart	29.03	737.4	29.90	759.4	67.1	19.5	65	n.			1		4	w.		0.091	2.3		Prof. Dr. Schoder.
Wustrow	30.08	763.9	30.10	764.5	61.2	16.2	93	nne.			3	0	3 k			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.48	748.8			90.0	32.2		sw.			2.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.55	750.6	29.60	751.8	87.3	30.7	78	wsw.	23.0	10.3			6		w.	0	0	d. clouds	
Deesa	29.05	737.8	29.50	749.3	97.8	36.6	36	ssw.	16.0	7.2			4		sw.	0	0	d. clouds	
Bombay	29.64	752.9	29.68	753.8	79.1	26.2	91	sw.	5.0	2.2			10		sw.	2.30	58.4	overcast	
Poona, Yarrowda	27.83	706.9	29.68	753.9	76.9	24.9	70	wnw.	20.0	8.9			10		w.	0.01	0.3	overcast	
Trichinopoly	29.46	748.3	29.74	755.3	87.3	30.7	48	w.	5.0	2.2			10			0	0	overcast	
Bellary	28.18	715.7	29.61	752.2	88.0	31.1	47	w.	18.4	8.2			10	w.		0	0	gloomy	
Belgaum	27.20	690.8	29.75	755.7	70.1	21.2	90	sw.	11.0	4.9			8	e.	sw.	0.03	0.8	d. cloudy	
Lahore	28.72	729.4	29.42	747.2	103.8	39.9	34	calm	5.5	2.5			0			0	0	hazy	
Roörkee	28.62	720.9	29.50	749.2	86.8	30.4	72	sw.	1.4	0.6			4			0.42	10.7		
Agra	28.94	734.9	29.48	748.8	91.3	32.9	62	e.	2.8	1.2			0		e.	0	0	d. clouds	
Nagpur	28.50	724.0	29.52	749.9	85.5	29.7	65	nw.	3.3	1.5			10		w.	0.05	1.3	overcast	
Jubbulpore	28.24	717.2	29.58	751.3	80.8	27.1	77	ne.	2.5	1.1			10			0.39	9.9	overcast	
Lucknow	29.16	740.7	29.53	750.0	85.1	29.5	78	calm	1.3	0.6			10	ese.		0.05	1.3	overcast	
Allahabad	29.23	742.5	29.54	750.3	81.0	27.2	91	calm	1.3	0.6			10			0.05	1.3	drizzling	
Patna	29.38	746.1	29.56	750.7	90.0	32.2	68	ene.	3.7	1.6			5	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.59	700.7	29.58	751.3	77.8	25.4	88	e.	5.9	2.6			10		e.	0.16	4.1	thnd'r str'm	
Cuttack	29.48	748.7	29.56	750.7	88.9	31.6	61	se.	1.0	0.4			6			0	0	d. clouds	
Calcutta, Alipore	29.54	750.2	29.56	750.8	83.5	28.6	83	ssw.	3.0	1.3			9		ssw.	0	0	overcast	
Dhubri	29.49	748.9	29.60	751.9	78.4	25.8	93	e.	1.8	0.8			10			0.05	1.3	gloomy	
Chittagong	29.54	750.4	29.63	752.6	82.7	28.2	86	sse.	2.9	1.3			8			0	0	d. clouds	
Sibsagar	29.30	744.3	29.63	752.7	84.4	29.1	80	ne.	1.3	0.6			10	w.	w.	0	0	d. clouds	
Jeypore	28.15	714.9	29.58	751.3	79.4	26.3	92	w.	5.2	2.3			10	e.	w.	0.55	14.0	overcast	
Zanzibar, Africa	30.11	764.8			82.6	28.1	48	se.	7.3	3.3			6			0	0	d. clouds	
ITALIAN.																			
Udine	29.51	749.5	29.91	759.6	65.1	18.4	88	s.	4.3	1.9			10			0.638	16.2		Prof. Giovanni Clodig.
Milan	29.35	745.6	29.85	758.2	77.5	25.3	51	nne.	3.8	1.7			1			0.205	5.2		Prof. Schiaparelli.
Padua	29.75	755.6	29.85	758.3	77.4	25.2	55	sse.	10.5	4.7			6	se.		0.114	2.9		Prof. Dott. Lorenzoni.
Moncalieri	28.95	735.2	29.82	757.3	79.2	26.2	33	s.	3.1	1.4			3			0.157	4.0		Prof. P. F. Denza.
Genoa	29.70	754.4	29.89	759.1	73.8	23.2	61	sw.	4.9	2.2			0			0.051	1.3		Prof. G. M. Garibaldi.
Mondovi	27.99	710.9	29.84	757.8	74.1	23.4	38	w.			4		0			0.224	5.7		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.84	757.8	29.88	759.0	69.8	21.0	70	ne.	3.1	1.4			8	nw.		0.039	1.0		Prof. Luigi Guidi.
Florence	29.62	752.4	29.87	758.6	77.5	25.3	58	w.			2		5	w.		0.020	0.5		Prof. Costantino Pitter
Leghorn	29.75	755.6	29.83	757.7	76.5	24.7	65	w.	9.4	4.2			3			0.157	4.0		Prof. P. Monte.
Rome	29.73	755.1	29.90	759.4	78.3	25.7	57	sw.	8.1	3.6			3			0.465	11.8		Prof. P. S. Ferrari.
Lecce	29.64	752.8	29.88	758.9	82.8	28.2	41	e.	14.3	6.4			2			0.012	0.3		Prof. C. de Giorgi.
Cosenza	29.08	738.6	29.93	760.1	80.2	26.8	71	wnw.	4.3	1.9			4	w.		0.185	4.7		Prof. D. Conti.
Cagliari	29.73	755.2	29.92	760.0	82.6	28.1	32	nw.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.73	755.2	29.97	761.2	79.9	26.6	46	nnw.	15.4	6.9			1	nw.		0.031	0.8		Prof. G. Ciacciatore.
Syracuse	29.85	758.2	29.89	759.3	81.7	27.6	59	nne.	9.8	4.4			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.41	747.1	29.93	760.1	68.9	20.5	87	e.	0.7	0.3			9	w.		0.472	12.0		Prof. T. Brioschi.
Stelvio	22.19	563.5			46.2	7.9	56	e.			2		1			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.24	565.0			51.3	10.7	71	ne.			2		5			0.130	3.3	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.84	757.9	29.85	758.2	57.5	14.2	79	nw.	12.0	5.4			1			0	0	clear	
Hiroshima, I. M. Obs'y					74.3	23.5	82	wsw.	2.5	1.1		8cs;ck	0			0	0	overcast	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.61	752.1	29.77	756.1	73.1	22.8	68	n.	1.1	0.4		0	0			0	0	clear	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.58	751.4	29.78	756.4	73.6	23.1	90	calm	0	0			10 s			0	0	overcast	S. Takehayashi.
Nemuro	29.85	758.2	29.92	759.9	56.0	13.3	100	sw.	12.0	5.4		10	0	nnw.		1.330	33.8	cloudy	
Niigata	29.82	757.4	29.86	758.4	64.7	18.2	87	ne.	7.6	3.4		1 ck	1 s;ck	s.	s.	0	0	fair	M. Morita.
Nohiru	29.80	757.0	29.82	757.4	71.0	21.7	65	nne.	10.7	4.7		5 ck	4 k;s			0	0	cloudy	H. Midaushina.
Osaka	29.78	756.4	29.80	756.9	75.1	23.9	83	wsw.	6.6	2.9		0	5cs;ck			0	0	fair	
Sapporo					55.5	13.1	96	n.	1.8	0.8			10			0.181	4.6	covered	
Tokei Obs'y, Yeddo	29.72	754.9	29.80	756.9	70.5	21.4	81	ssw.	6.8	3.0		4ck;cs	0	w.		0	0	fair	The Staff.
Wakayama	29.73	755.1	29.78	756.4	73.4	23.0	77	ssw.	7.0	3.1		10	0	w.		0	0	cloudy	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	30.08	764.0	30.27	768.8	73.0	22.8	67	ese.	21.0	9.4		0	2 k		ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	602.9	29.96	760.9	59.7	15.4	84	ene.				2 c	1 kn		ne.	1.496?	45.6?	clear	Prof. Vicente Fernandez.
Leon	24.38	619.2	30.03	762.7	60.8	16.0	92	wsw.			1	5 c	0	sw.		0.635	16.1	½ cloudy	Prof. M. Leal.
Mazatlan	29.71	754.6	29.96	761.1	79.5	26.4	84	n.	5.3	2.3			9 n		ese.	0	0		F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.5	30.19	766.9	50.5	13.6	87	calm	0	0		3 c	3 k			0.012	0.3		The Staff.
Morelia	24.18	614.2	30.23	767.8	59.9	15.5	58	se.			3	2	2	e.	e.	0.256	6.5	½ cloudy	M. Tena, M. D.
Orizaba	26.15	664.2	30.12	765.1	62.1	16.7	89	calm	0	0		0	2	s.	s.	0	0	cloudy	Prof. M. M. Cházaro.
Pabellon, Aguascallentes	24.01	609.9	30.00	762.0	61.3	16.3	84	wsw.			1	1 c	6 k	se.	se.	0.150	3.7	½ cloudy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.48	596.0	30.25	768.4	52.7	11.5	88	calm				0	5		sse.	0.091	2.3	½ cloudy	Prof. P. Spina.
San Luis Potosi	24.32	617.8	30.24	768.0	66.7	19.3	65	s.					10		se.	0	0	covered	G. Barroeta, M. D.
Zacatecas	22.60	573.8	30.20	767.0	57.0?	13.0?	90	e.	7.5	3.3		5 s	0			0	0	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.10	764.6	30.10	764.6	66.9	19.4		nnw.			3					0.012	0.3		
Groningen	30.03	762.8	30.09	764.2	65.8	18.8		ene.			2					0	0		
Helder	30.09	764.3	30.09	764.3	62.2	16.8		ne.			4					0	0		
Hellevoetsluis	30.08	764.1	30.08	764.1	69.1	20.6	58	nnw.			2					0	0		
Utrecht	30.03	762.7	30.08	763.9	67.1	19.5	60	nne.			2		8			0	0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.00	761.9	30.06	763.5	60.4	15.8	63	wnw.	9	4			1			0	0		
Brono	29.97	761.2	30.01	762.2	52.2	11.2	77	ssw.	4	2			10			0	0		
Christiania	29.80	756.8	29.93	760.3	80.6	27.0	37	sw.	9	4			3			0	0		
Gjæsvær	29.73	755.2	29.76	755.8	42.8	6.0		n.			4		9						
Lodingen	29.82	757.5	29.87	758.7	50.2	10.1	73	sw.			2		10			0	0		
PORTUGUESE.																			
Angra, Azores					73.0	22.8	62	wsw.	4.9	2.2			4			0	0		Dr. J. A. Sampaio.
Campo Major	28.95	735.3	29.88	759.0	91.8	33.2	27	calm	0	0			2			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.10	764.5	30.19	766.7	71.6	22.0	78	sw.	4.9	2.2			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.67	753.5	30.02	762.4	74.3	23.5	57	nnw.	13.0	5.8			1			0	0		The Staff.
Ponta Delgada, Azores	30.36	771.1	30.43	772.9	72.3	22.4	74	ne.	11.9	5.3			3			0	0		
Saint Paul de Loando	29.91	759.7	30.11	764.9	69.8	21.0	76	wnw.	0.7	0.3			8			0	0		
Serra da Estrella	25.40	645.1	29.91	759.6	72.1	22.3	42	n.	9.8	4.4			8			0	0		
RUSSIAN.																			
Akmolinski																			Major K. Lasarew.
Archangel	29.56	750.9	29.58	751.4	50.9	10.5	64	wnw.	18	8		0	5 ks			0	0		Capt. Sselilwerstow.
Astrakhan	29.93	760.1	29.84	758.0	86.5	30.3	52	ssw.	18	8		0	6 s			0.012	0.3		Capt. Wisganow.
Barnaul	29.11	739.3	29.58	751.4	69.1	20.6	60	w.	22	10			10			0.035	0.9		Meteorological Obs'y.
Dorpat	29.60	751.8	29.83	757.7	70.5	21.4	46	w.	11	5		0	8 k			0	0		Observatory.
Ekaterinburg	28.66	728.0	29.00	751.8	57.2	14.0	52	wsw.	18	8		ck	5 k;s			0.028	0.7		Meteorological Obs'y.
Irkutsk	28.24	717.2	29.80	756.8	73.4	23.0	73	calm	0	0		0	7 s			0	0		
Kasan	29.46	748.3	29.72	755.0	57.4	14.1	70	s.	4	2			10 n			0.016	0.4	raining	Observatory.
Kertch	29.84	757.8	29.85	758.3	75.0	23.9	74	se.	18	8		0	3 ks			0	0		Lagorio & Sastyrez.
Kieff	29.23	742.4	29.85	758.2	61.9	16.6	65	nne.	7	3			10ks;n			5.858	21.8		Observatory.
Lugan	29.63	752.5	29.82	757.5	78.1	25.6	55	ene.	22	10			7			0.008	0.2		Meteorological Obs'y
Moscow	29.28	743.6	29.73	755.1	66.7	19.3	53	ese.	7.8	3.5			6 ks						Meteorological Obs'y.
Nikolaiev	29.76	756.0	29.84	757.8	84.6	29.2	47	s.	18	8		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.48	748.9	29.03	752.5	85.6	29.8	34	nw.	4	2		0	4 k			0	0		Physical Observatory
St. Petersburg	29.74	755.3	29.75	755.7	64.2	17.9	51	wnw.	10	7		0	8 kn			0	0		Central Physical Obs'y
Semipalatinsk	29.07	738.4	29.69	754.2	73.0	22.8	68	nw.	11	5			10			0.004	0.1		Major Lasarew.
Tashkend, Laboratory	28.26	717.7	29.71	754.7	88.9	31.6	38	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.47	723.1	29.79	756.7	90.3	32.4	38	se.	4	2		0	3 k			inap.	inap.		Physical Observatory
Vladivostock	29.76	756.0			58.6	14.8	92	calm	0	0		0	2 s						
Warsaw	29.54	750.3	29.95	760.8	65.3	18.5	42	e.	9	4			10 ks						Astronomical Obs'y
Wilna	29.58	751.2	29.98	761.5	67.1	19.5	44	wsw.	2	1			1			0	0		Berg, Assistant.
Yeniseisk	29.39	746.6	29.67	753.7	58.8	14.9	88	ssw.	4	2			3			0.008	0.2		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.87	758.7	29.97	761.2	77.5	25.3	67	s.	4.3	1.9			1 k						Antonio Rave, Director.
Bilbao, Met. Obs'y	30.13	765.3	30.19	766.8	73.4	23.0	62	n.	2.0	0.9			10			0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.17	690.1	30.06	763.4	69.4	20.8	49	ne.	8.1	3.6			1			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.81	706.3	29.93	760.2	87.8	31.0	32	ne.	2.9	1.3		0	5			0	0	cloudy	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director
Santiago, Met. Obs'y	29.18	741.1	30.05	763.2	71.6	22.0	58	ne.	15.0	6.7			7			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.																			Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.1	29.90	759.5	81.3	27.4	90	ene.	2.2	1.0		0	8 ck		sw.	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.95	760.6	30.04	763.1	76.6	24.8	67	s.	9.8	4.4		1	1	s.	s.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.05	763.2	30.14	765.5	82.4	28.0	86	e.	7.2	3.2		1 k	5 kn	e.	e.	0.039	1.0	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.75	755.6	29.89	759.2	82.0	27.8	79	nnw.	4.7	2.1		1 cs	2 k	ene.	n.	inap.	inap.	fair	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.72	754.8	29.76	755.8	60.1	15.6	87	n.			2		10			0	0		
Umea	29.74	755.5	29.80	756.8	68.4	20.2	51	n.			4		6			0	0		
Hernosand	29.80	756.8	29.85	758.1	70.5	21.4	33	nnw.			4		5			0	0		
Stockholm	29.76	756.0	29.94	760.5	72.3	22.4	44	w.			2		2			0	0		
Wisby	29.90	759.5	29.96	761.0	61.5	16.4	71	n.			2		0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Swedish—Continued.																			
Sub-series.																			
Upsala	29.82	757.5	29.91	759.7	72.1	22.3	42	nnw.	6.9	3.1			1			0	0		S. G. Fineman.
Swiss.																			
Geneva	28.61	726.6	29.98	761.4	72.7	22.6	46	sw.			2					0	0	clouds	The Observatory
Scottish.																			
Monach Lt			30.00	762.0	60	15.6	94	wsw.			4		10			0	0	overcast	J. Youngelause.
North Unst			29.97	761.2				s.			2	3	6	se.					
Turkish.																			
Constantinople			29.77	756.1	86.7	30.4	40	s.	2	1.0			0			0	0		The Observatory.
Valona			30.04	762.9	80.1	26.7		s.			1		5			blank	blank	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.82	757.4	82.9	28.3	62	wsw.			2	0	0			0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.62	752.3	29.70	754.4	63	17.2	68	nw.	8	3.6			10 ks		nw.	0.30	7.6	cloudy	J. O. Barnes.
Alpena, Michigan	29.35	745.5	29.99	761.7	54	12.2	80	w.	12	5.4		0	0			0.07	1.8	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.10	637.5	29.84	757.9	64	17.8	93	e.	5	2.2			10 s		calm	0.17	4.3	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.14	689.3	29.87	758.7	68	20.0	44	sw.	10	4.5		2 c	0	sw.		0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.88	733.5	30.04	763.0	76.0	24.4	85	nw.	11	4.9		9 k	0	nw.		0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.76	755.9	29.77	756.1	70.3	21.3	53	nw.	16	7.2		0	2 s		calm	0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.82	757.4	30.02	762.5	79.0	26.1	79	w.	4	1.8		1 k	0	nw.		0.08	2.0	clear	John Healy.
Baltimore, Maryland	29.81	757.2	29.86	758.4	69	20.6	57	nw.	14	6.3		7 c	0	w.		0.49	12.4	fair	Robert Seyboth.
Barnegat, New Jersey	29.74	755.4	29.76	755.9	70.0	21.1	51	nw.	20	8.9		0	3 k		nw.	0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.31	719.1	29.85	758.2	67	19.4	90	se.	11	4.9		0	0			inap.	inap.	clear	A. Pritchard.
Benton, Fort, Montana	27.17	690.1	29.88	758.9	64	17.8	58	calm	0	0		0	2 k			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	30.02	762.5	30.04	763.0	45.0	7.2		e.	2	0.9			fg.			0.01	0.3	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.13	714.5	29.85	758.2	63	17.2	90	s.	6	2.7		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.63	752.6	29.66	753.4	62.1	16.7	93	w.	12	5.4			fg.			0.86	21.8	dense fog	J. T. Elker.
Boise City, Idaho	27.21	691.1	29.93	760.2	67	19.4	40	w.	4	1.8		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.48	748.8	29.63	752.6	55.0	12.8	80	sw.	4	1.8			10s; fg			0.38	9.7	cloudy	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.03	762.7	78.4	25.8	90	s.	6	2.7		2 c	3 ks	calm	s.	0.41	10.4	fair	M. McCarty.
Buffalo, New York	29.20	741.7	29.93	760.2	57	13.9	72	nw.	10	4.5		2 k	0	nw.		0.01	0.3	clear	Wm. Finn.
Buford, Fort, Dakota	27.91	708.9	29.85	758.2	65	18.3	78	calm	0	0		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.31	744.5	29.59	751.6	54.0	12.2	96	n.	11	4.9			10 n		n.	0.22	5.6	light rain	G. C. Schaeffer.
Cairo, Illinois	29.63	752.6	30.02	762.5	77.8	25.4	77	ne.	4	1.8		5 c	0	w.		inap.	inap.	fair	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	29.21	741.9	29.80	756.9	76	24.4	50	calm			6	1 cs	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.82	757.4	29.84	757.9	76	24.4	76	nw.	15	6.7		3 k	3 s	w.	w.	0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.78	756.4	29.81	757.2	69.0	20.6	70	nw.	10	4.5		4 k	0	nw.		0.38	9.7	fair	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.14	765.5	30.16	766.1	82	27.8	72	w.	9	4.0		8 ck	1 k	w.		0	0	cloudy	F. W. Mixer.
Champaign, Illinois	29.28	743.7	30.07	763.8	58.0	14.4	70	ne.	13	5.8		0	0			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	29.91	759.7	29.96	761.0	80	26.7	79	w.	10	4.5		0	0			0.85	21.6	clear	J. H. Smith.
Charlotte, N. Carolina	29.07	738.4	29.90	759.4	84.0	28.9	57	w.	2	0.9		3 c	hz.	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.23	742.4	30.03	762.7	78.5	25.8	78	sw.	7	3.1			10 ks		w.	0.05	1.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.20	614.7	29.89	759.2	58.4	14.7	72	w.	4	1.8		0	0			0.03	0.8	clear	E. McGovern.
Chicago, Illinois	29.42	747.3	30.11	764.8	59.7	15.4	73	ne.	5	2.2		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	29.79	756.7	29.81	757.2	74	23.3	71	n.	13	5.8		3 c	0			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.39	746.5	30.03	762.7	64.5	18.1	67	n.	8	3.6		3 c	0	w.		0.01	0.3	clear	J. F. Harrold.
Cleveland, Ohio	29.32	744.7	30.04	763.0	58.6	14.8	67	n.	9	4.0		0	5 k		n.	0	0	fair	J. B. Newlin.
Coleman City, Texas	28.30	718.8	30.06	763.5	74	23.3	87	s.	3	1.3		3 cs	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.21	741.9	30.04	763.0	60	15.6	65	n.	9	4.0		5 cs	0	w.		0	0	fair	D. Cuthbertson.
Concho, Texas	28.17	715.5	30.05	763.3	76	24.4	74	calm	0	0		0	0			0	0	clear	W. W. McConihe.
Custer, Fort, Montana	26.80	680.7	29.82	757.4	65	18.3	84	se.	3	1.3		3 k	0	calm		0	0	clear	V. Verge.
Davenport, Iowa	29.49	749.0	30.12	765.0	63	17.2	68	e.	6	2.7		1 cs	0	calm		0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.26	641.6	29.90	759.4	66	18.9	70	se.	1	0.4		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.27	718.0	29.98	761.5	53.0	11.7	74	calm	0	0		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.45	646.4	29.87	758.7	64.0	17.8	81	sw.	5	2.2		0	0			0.01	0.3	clear	G. W. Scott.
Decatur, Texas					80	26.7	41	se.	9	4.0		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.79	756.7	29.81	757.2	68	20.0	78	nw.	12	5.4		3 c	hz.	w.		inap.	inap.	clear	A. Schneider.
Denison, Texas	29.27	743.4	30.05	763.3	80.3	26.8	74	s.	10	4.5		10 cs	c			0	0	cloudy	J. McGlone.
Denver, Colorado	24.88	631.9	29.89	759.2	66.0	18.9	81	nw.	3	1.3		2 cs	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.24	742.7	30.12	765.0	65	18.3	84	se.	4	1.8			10 s		se.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.30	745.7	30.05	763.3	56.0	13.3	86	nw.	7	3.1		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.44	697.0	29.94	760.5	74.0	23.3	73	nw.	8	3.6			10 s		nw.	0	0	cloudy	W. M. Mattingly.
Dubuque, Iowa	29.42	747.3	30.12	765.0	59.7	15.4	75	e.	3	1.3		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.36	745.7	30.08	764.0	65	18.3	63	nw.	5	2.2		3 ck	0	nw.		0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.29	744.0	30.08	764.0	77.2	25.1	76	se.	5	2.2		0	7 s		se.	0	0	fair	F. Belford.
Eagle Rock, Idaho	25.36	644.1	29.91	759.7	60	15.6	58	s.	5	2.2		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.49	749.0	29.55	750.6	48.0	8.9	93	ne.	32	14.3			10m; fog		ne.	1.10	27.9	light rain	D. C. Murphy.
Elliott, Fort, Texas	27.33	694.2	29.97	761.2	67	19.4	66	s.	4	1.8			10 s		s.	0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.32	668.8	29.92	760.0	84	28.9	55	ne.	6	2.7		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.29	744.0	30.00	762.0	57	13.9	80	nw.	6	2.7		3 k	0	nw.		0	0	clear	Peter Wood.
Escanaba, Michigan	29.40	746.7	30.04	763.0	59	15.0	65	nw.	6	2.7		0	0			0	0	clear	C. Dill.
Fredericksburg, Texas	28.36	720.3	30.06	763.5	71	21.7	97	calm	0	0		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	30.07	763.8	30.12	765.0	82	27.8	82	sw.	9	4.0		0	7 ks		s.	0.16	4.1	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.45	748.0	30.10	764.5	63.5	17.5	68	nw.	2	0.9		0	0			0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.28	642.1	29.85	758.2	70.9	21.6	46	se.	4	1.8		2 cs	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.83	757.7	29.85	758.2	80.0	26.7	79	w.	16	7.2		3 c	0	sw.		0.97	24.6	clear	R. M. Crawford.
Helena, Montana	25.85	656.6	29.91	759.7	66	18.9	51	s.	3	1.3		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.09	738.9	30.07	763.8	83.0	28.3	61	calm	0	0		7 cs	0			0	0	fair	J. W. Byram.
Huron, Dakota	28.65	727.7	29.97	761.2	60.9	16.1	87	e.	7	3.1		5 k	0	ne.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.28	743.7	30.05	763.3	63	17.2	63	ne.	4	1.8		0	0			0	0	clear	O. Schutze
Indianola, Texas	30.08	764.0	30.11	764.8	79.5	26.4	91	s.	4	1.8		0	2 ks		s.	0.14	3.6	clear	I. A. Reed.
Jacksboro, Texas	28.91	734.3	30.03	762.7	79	26.1	69	sw.	6	2.7		4 c	0	e.		0	0	fair	J. P. Sherry.
Jacksonville, Florida	30.03	762.7	30.07	763.8	82	27.8	82	sw.	7	3.1		5cs; ck	0	sw.		0	0	fair	J. W. Smith.
Keogh, Fort, Montana	27.42	696.5	29.83	757.7	67	19.4	84	ne.	2	0.9		0	0			0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.44	747.8	30.07	763.8	65.5	18.6	69	e.	5	2.2		2 k	0	nw.		0.71	18.0	clear	F. Z. Gosewisch
Key West, Florida	30.10	764.5	30.12	765.0	86.0	30.0	66	se.	2	0.9		3 k	0	w.		0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	29.82	757.4	29.84	757.9	79.0	26.1	72	nw.	12	5.4		hz.	0			0.17	4.3	clear	E. A. Beals.
Knoxville, Tennessee	28.99	736.3	29.99	761.7	74.8	23.8	92	sw.	8	3.6		5 c	4 s		sw.	0.08	2.0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.38	746.2	30.13	765.3	60	15.6	81	nw.	1	0.4		0	fg.			0	0	clear	S. C. Emery
La Mesilla, New Mexico	26.16	664.5	29.90	759.4	65.5	18.6	70	se.	1	0.4		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.18	741.2	30.04	763.0	73	22.8	76	e.	4	1.8		5 ck	0	nw.		0	0	fair	A. W. Browne.
Lewiston, Idaho	29.16	740.7	29.98	761.5	65.5	18.6	44	e.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.73	755.1	30.04	763.0	79	26.1	82	sw.	4	1.8		0	9 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.61	752.1	30.00	762.0	56.2	13.4	80	se.	2	0.9		0	2 s			0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.44	747.8	30.00	762.0	67	19.4	78	n.	8	3.6			10 s		w.	0.15	3.8	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.20	741.7	29.87	758.7	79.5	26.4	62	w.	4	1.8		1 cs	3s; ks		w.	0.02	0.5	fair	W. R. Bushby.
Macon, Fort, North Carolina	29.86	758.4	29.88	758.9	78	25.6	88	nw.	12	5.4		hz.	hz.			0	0	light haze	F. P. Chaffee.
Madison, Wisconsin	29.15	740.4	30.13	765.3	57	13.9	86	se.	4	1.8		0	0			0	0	clear	O. A. Shaw.
Maginnis, Fort, Montana																			H. W. Dodge.
McKavett, Fort, Texas	27.88	708.1	30.08	764.0	75	23.9	76	s.	2	0.9		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.35	745.5	30.06	763.5	60	15.6	65	sw.	1	0.4		0	0			0.03	0.8	clear	J. Gilligan.
Memphis, Tennessee	29.70	754.4	30.03	762.7	80	26.7	91	w.	8	3.6			10 s		w.	0.45	11.4	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.38	746.2	30.11	764.8	58	14.4	69	n.	3	1.3		0	0			0	0	clear	W. Line.

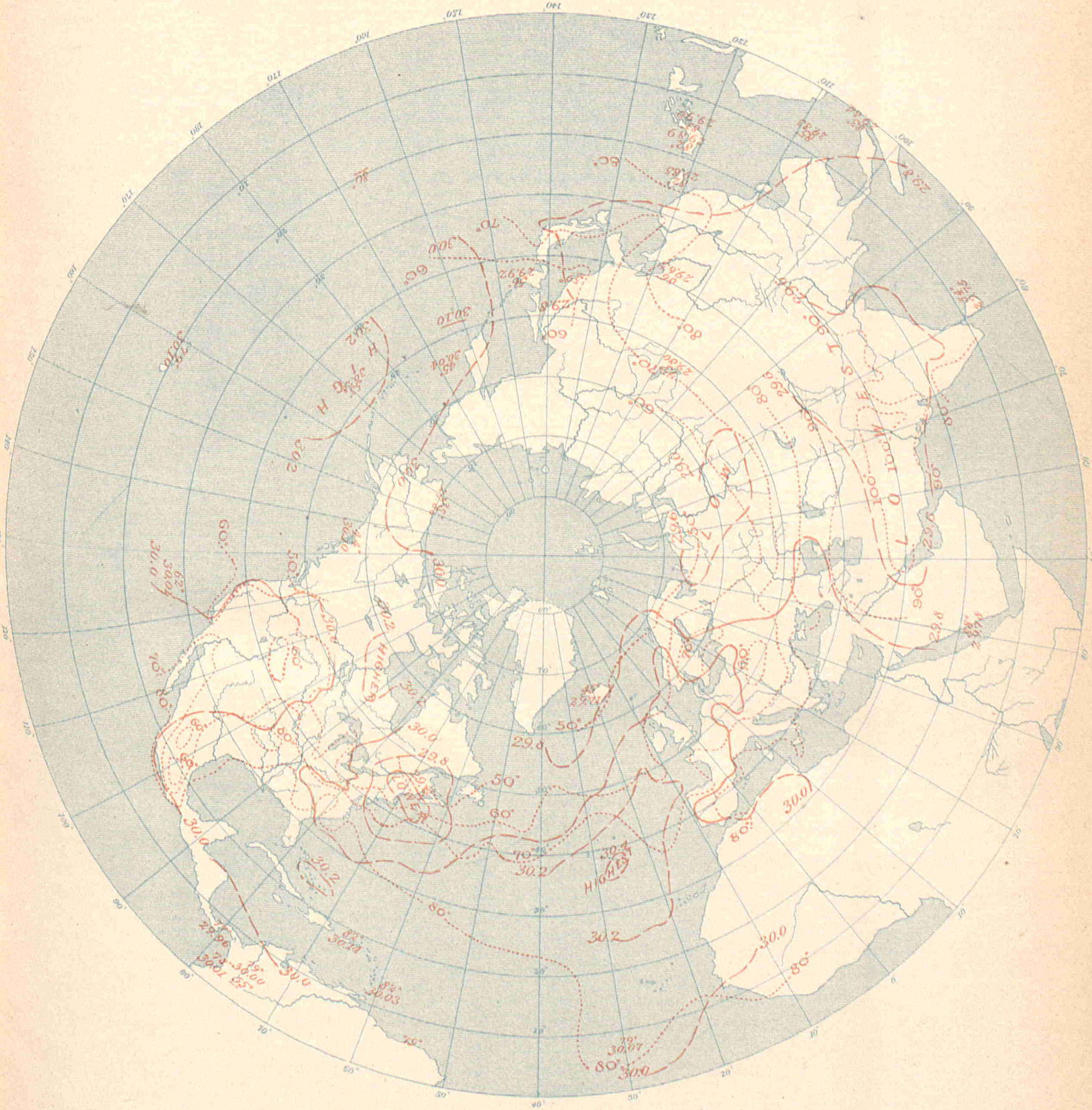
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.78	680.2	29.97	761.2	71	21.7	68	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.09	764.3	30.13	765.3	80	26.7	82	w.	6	2.7	.....	5 cs	4 ks	.....	.....	inap.	inap.	cloudy	C. A. Read.
Montgomery, Alabama	29.85	758.2	30.07	763.8	81.0	27.2	82	sw.	4	1.8	.....	8 k	0	nw.	.....	inap.	inap.	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.06	738.1	30.02	762.5	54	12.2	86	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.04	737.6	30.04	763.0	63.0	17.2	65	n.	14	6.3	.....	0	9 s	.....	n.	0.14	3.6	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.44	595.4	29.51	749.5	37.0	2.8	100	nw.	40	17.9	.....	.....	10n;fg	.....	nw.	1.03	26.2	light rain	J. G. Livsley.
Nashville, Tennessee	29.46	748.3	29.98	761.5	78.5	25.8	89	sw.	2	0.9	.....	.....	10 ks	.....	w.	inap.	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.57	751.1	29.68	753.9	62.5	16.9	74	w.	10	4.5	.....	0	0	.....	.....	0.47	11.9	clear	J. H. Sherman.
New London, Connecticut	29.66	753.4	29.72	754.9	62	16.7	67	nw.	6	2.7	.....	9 k	0	nw.	.....	1.05	26.7	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.09	764.3	30.14	765.5	82.5	28.1	79	sw.	4	1.8	.....	1 c	2 s	w.	s.	0	0	clear	L. Dunne.
Newport, Rhode Island	29.62	752.3	29.67	753.6	62.3	16.8	86	w.	3	1.3	.....	3 c	4 ks	s.	w.	0.40	10.2	fair	W. McGillivray.
New York, New York	29.57	751.1	29.74	755.4	65	18.3	58	w.	21	9.4	.....	0	0	.....	.....	inap.	inap.	clear	J. B. Merrill.
Norfolk, Virginia	29.81	757.2	29.84	747.9	78	25.6	74	nw.	6	2.7	.....	0	9 ks	.....	n.	0	0	cloudy	H. L. Kemp.
North Platte, Nebraska	27.16	689.9	29.96	761.0	69.1	20.6	84	se.	6	2.7	.....	1 c	4 s	.....	.....	0.52	13.2	fair	E. F. Brady.
Olympia, Washington T'y	29.98	761.5	30.02	762.5	52 0	11.1	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.84	757.9	29.86	758.4	35.0	1.7	92	ese.	9	4.0	.....	0	7 s	.....	w.	0.02	0.5	fair	P. H. Ray.
Omaha, Nebraska	28.94	735.1	30.06	763.5	70.7	21.5	80	se.	4	1.8	.....	8e;ck	0	nw.	.....	0.01	0.3	cloudy	A. Pollak.
Oswego, New York	29.48	748.8	29.80	756.9	57.0	13.9	80	nw.	14	6.3	.....	0	0	.....	.....	0.04	1.0	clear	S. W. Beall.
Palestine, Texas	29.60	751.8	30.14	765.5	76.0	24.4	85	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.09	764.3	30.12	765.0	82.1	27.8	82	sw.	6	2.7	.....	0	8 s	.....	w.	0	0	cloudy	M. McGauran.
Philadelphia, Pa	29.70	754.4	29.80	756.9	68.5	20.3	51	nw.	16	7.2	.....	0	1 s	.....	nw.	0.12	3.0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.04	458.2	29.82	757.4	38	3.3	80	nw.	2	0.9	.....	2 cs	0	.....	.....	0.11	2.8	clear	L. M. Dey.
Ploche, Nevada	24.20	614.7	29.93	760.2	60.7	15.9	70	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.19	741.4	29.98	761.5	59.4	15.2	67	nw.	8	3.6	.....	9 k	0	nw.	.....	0.11	2.8	cloudy	J. H. Bryce.
Poplar River, Montana	27.64	702.0	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.17	766.3	30.18	766.6	81.0	27.2	82	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear	M. Hermann.
Port Huron, Michigan	29.37	746.0	30.03	762.7	57.9	14.4	75	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	29.54	750.3	29.59	751.6	56	13.3	83	e.	1	0.4	.....	.....	10n;fg	.....	e.	0.61	15.5	light rain	W. W. Eichelberger.
Portland, Oregon	29.94	760.5	30.01	762.2	58.2	14.6	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24 90	632.4	29.88	758.9	60	15.6	67	s.	4	1.8	.....	0	0	.....	.....	0.06	1.5	clear	J. McN. Wright.
Provincetown, Mass.	29.60	751.8	29.63	752.6	58.0	14.4	86	w.	6	2.7	.....	.....	10 s	.....	nw.	0.45	11.4	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.12	765.0	30.13	765.3	81.5	27.5	79	ne.	4	1.8	.....	2 c	0	ne.	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.56	750.8	29.92	760.0	70.2	21.2	57	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.84	757.9	30.07	763.8	78	25.6	90	e.	4	1.8	.....	1 cs	0	e.	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.21	741.9	29.86	758.4	55	12.8	80	nw.	20	8.9	.....	5 k	0	nw.	.....	0.02	0.5	fair	E. W. McGann.
Roseburg, Oregon	29.42	747.3	29.96	761.0	56.6	13.7	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.84	757.9	29.91	759.7	60.8	16.0	78	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.50	749.3	30.08	764.0	65.0	18.3	68	ne.	12	5.4	.....	.....	10 s	.....	ne.	0.02	0.5	cloudy	J. H. Webber.
St. Paul, Minnesota	29.24	742.7	30.08	764.0	58	14.4	86	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	P. F. Lyons
St. Vincent, Minnesota	29.16	740.7	30.00	762.0	55	12.8	93	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	threatening	G. Kingsbury.
Salt Lake City, Utah	25.74	653.8	29.92	760.0	72	22.2	44	s.	3	1.3	.....	3 k	0	sw.	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.40	746.7	30.08	764.0	77.0	25.0	85	calm	0	0	.....	0	6 ks	.....	se.	0	0	fair	T. J. Kenan.
San Diego, California	29.90	759.4	29.97	761.2	63.3	17.4	83	nw.	4	1.8	.....	6 ck	4 s	se.	.....	0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.39	746.5	30.05	763.3	60.2	15.7	70	n.	15	6.7	.....	5 k	0	n.	.....	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	29.72	754.9	29.74	755.4	66.0	18.9	68	nw.	21	9.4	.....	1 k	0	nw.	.....	0.39	9.9	clear	B. A. Blundon.
San Francisco, California	29.93	760.2	30.00	762.0	57	13.9	93	sw.	6	2.7	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.44	595.4	29.94	760.5	65	18.3	48	e.	12	5.4	.....	6 c	0	.....	.....	0.01	0.3	fair	H. U. Jones.
Savannah, Georgia	29.92	760.0	30.01	762.2	83.5	28.6	67	w.	10	4.5	.....	0	0	.....	.....	0.13	3.3	clear	H. W. Ford.
Shaw, Fort, Montana	26.38	670.0	29.90	759.4	59	15.0	56	e.	1	0.4	.....	1 k	0	w.	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.89	759.2	30.12	765.0	78	25.6	82	sw.	2	0.9	.....	6 c; k	0	.....	.....	0	0	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.80	731.5	30.00	762.0	79.5	26.4	59	s.	1	0.4	.....	10 c	0	w.	.....	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.40	619.7	29.86	758.4	57	13.9	37	w.	2	0.9	.....	0	0	.....	.....	0.05	1.3	clear	J. B. Wallace.
Sitka, Alaska	30.04	763.0	30.10	764.5	44.2	6.8	83	ne.	5	2.2	.....	2 c	0	nw.	.....	0	0	clear	J. J. McLean.
Smith, Fort, Arkansas	29.58	751.3	30.04	763.0	81.5	27.5	79	calm	0	0	.....	10 cs	0	s.	.....	inap.	inap.	cloudy	J. B. Campbell.
Smithville, North Carolina	29.88	758.9	29.91	759.7	78	25.6	82	nw.	7	3.1	.....	1 cs	0	.....	.....	0.04	1.0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.97	710.4	29.95	760.7	54	12.2	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.44	747.8	30.10	764.5	61	16.1	62	ne.	7	3.1	.....	2 cs	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.54	750.3	29.67	753.6	63.4	17.4	68	w.	9	4.0	.....	.....	10 s	.....	nw.	0.15	3.8	cloudy	T. S. Outram.
Springfield, Mo	28.62	726.9	30.01	762.2	79	26.1	79	calm	0	0	.....	7 c	0	w.	.....	0	0	fair	J. B. Marbury.
Starkville, Miss.	29.60	751.8	30.07	763.8	81.6	27.6	80	w.	12	5.4	.....	.....	10 ks	.....	w.	0.17	4.3	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.06	712.7	29.84	757.9	71	21.7	68	s.	4	1.8	.....	0	9 ks	.....	w.	0	0	cloudy	W. Burrows
Stockton, Fort, Texas	27.08	687.8	30.02	762.5	69.0	20.6	90	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.55	750.6	29.60	751.8	55.0	12.8	83	s.	8	3.6	.....	8 k	0	sw.	.....	0.84	21.3	cloudy	G. Liebmann.
Toledo, Ohio	29.38	746.2	30.05	763.3	59	15.0	70	n.	5	2.2	.....	0	0	.....	.....	0.18	4.6	clear	A. Buell.
Tucson, Arizona	27.52	699.0	29.84	757.9	75	23.9	76	calm	0	0	.....	2 c	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.63	752.6	29.99	761.7	62	16.7	60	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.12	739.6	30.06	763.5	76	24.4	82	e.	2	0.9	.....	.....	10 s	.....	e.	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	69	20.6	76	s.	.....	.....	1	0	4 s	.....	s.	0.15	3.8	fair	D. Brooks.
Vicksburg, Mississippi	29.87	758 7	30.11	764.8	82	27.8	74	sw.	11	4.9	.....	4c;ck	0	.....	.....	0	0	fair	H. P. Brisbane.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.62	625.3	29.95	760.7	55.0	12.8	72	w.	2	0.9	.....	2 c;k	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	29.77	756.1	29.88	758.9	67.5	19.7	60	nw.	9	4.0	.....	9 cs	0	nw.	.....	0.02	0.5	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.17	664.7	29.93	760.2	65.4	18.6	89	calm	0	0	.....	6 cs	3 s	sw.	.....	0.03	0.8	cloudy	F. W. Brandenburg.
Williamsport, Pa.	29.27	743.4	29.85	758.2	60	15.6	62	n.	8	3.6	.....	.....	10 ks	.....	nw.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.86	758.4	29.91	759.7	78	25.6	82	nw.	6	2.7	.....	1 cs	0	.....	.....	0.01	0.3	clear	A. T. Sherwood.
Winnemucca, Nevada	25.70	652.8	29.92	760.0	65	18.3	42	sw.	8	3.6	.....	0	2 ks	.....	sw.	0	0	clear	J. Grover.
Yankton, Dakota	28.78	731.0	30.05	763.3	66	18.9	78	se.	6	2.7	.....	0	8 ks	.....	.....	inap.	inap.	cloudy	J. H. Atfield.
Yuma, Arizona	29.67	753.6	29.81	757.2	79.0	26.1	69	calm	0	0	.....	5 ck	2 s	.....	.....	0	0	fair	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.09	561.1	.....	.....	55.0	12.8	77	calm	0	0	.....	2 ck	4 ks	s.	.....	0.19	4.8	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.02	762.5	30.03	762.7	82	27.8	95	ne.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.01	762.2	78	25.6	86	se.	6	2.7	.....	0	8 ks	.....	s.	0.40	10.2	cloudy	J. I. Plume.
Kingston, Jamaica, W. I.	30.09	764.3	30.10	764.5	83.3	28.5	77	e.	2	0.9	.....	10c;cs	0	.....	.....	0	0	cloudy	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	76	24.4	.....	calm	.....	.....	0	0	3 k	.....	se.	0	0	.....	S. M. Pike.
Navassa	29.97	761.2	30.05	763.3	80.5	26.9	78	e.	5	2.2	.....	7 k	3 s	ne.	e.	0.14	3.6	cloudy	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.05	763.3	79	26.1	91	e.	.....	.....	2	4 c	0	e	.....	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.44	747.8	30.00	762.0	79	26.1	89	calm	.....	.....	0	2 c	8 ks	calm	e.	0.32	8.1	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	98	ne.	.....	.....	1	8 ks	0	se.	.....	1.54	39.1	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.07	763.8	30.10	764.5	80	26.7	74	calm	0	0	.....	2 c	0	.....	.....	0	0	clear	Robert Mason.
York Factory, B. A.	30.28	769.1	30.34	770.6	61.0	16.1	82	n.	11	4.9	.....	0	0	.....	.....	0	0	clear	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, S. 31° 55′ E. 14° 04′	30.12	765.0	61	16.1	70	wnw.			3		2							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.92	760.0	78	25.6	84	w.			3		0					2	wnw.	misty.
H. M. S. Amethyst, Montevideo, Uruguay	30.14	765.5	49.2	9.6	73	sse.			1		8							d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.80	756.9	83	28.3		nnw.			2									blue sky.
H. M. S. Bacchante, N. 38° 36′ E 8° 36′	29.90	759.4	82	27.8	62	n.			1		3	wsw.				1	nw.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.06	763.5	60	15.6		nw.			1-2		2	w.						d. clouds.
H. M. S. Champion, N. 20° 20′, W. 160° 50′			80	26.7	100	e.			4		9	ne.				3	e.	d. clouds.
H. M. S. Comus, N. 35° 21′, E. 139° 41′	29.76	755.9	73	22.8	85	s.			1-2		3							d. clouds.
H. M. S. Diamond, S 8° 50′, E. 159° 39′	29.91	759.7	81	27.2	87	calm			0		8							d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.07	763.8	79	26.1		e.			1-2		3	e.						d, clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.05	763.3	79	26.1	90	ssw.			3-4		4	ssw.						d. clouds.
H. M. S. Dwarf, S. 31° 23′, W. 60° 23′	30.11	764.8	40.5	4.7	91	ssw.			1-2		0					1	s.	blue sky.
H. M. S. Eclipse, S. 6° 02′, E. 51° 13′	29.97	761.2	76	24.4		e.			5		10					4	ese.	raining.
H. M. S. Emerald, S. 26° 50′, W. 21° 00′	30.24	768.1	70	21.1	100	nnw.			3-4		10	nnw.				2	nnw.	showery.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.75	755.6	83.5	28.6	72	sw.			3		10	calm						d. clouds.
H. M. S. Espiegle, S. 17° 35′ E. 168° 16′	29.98	761.5	74	23.3	85	n.			1		4	w.						d. clouds.
H. M. S. Fawn, S. 25° 59′, E. 32° 48′	30.24	768.1	76.5	24.7	97						3	sse.						d. clouds.
H. M. S. Gannet, S. 21° 18′, W. 71° 45′	30.12	765.0	58	14.4	76	s.			4		10					3	s.	overcast.
H. M. S. Garnet, S. 25° 00′, W. 26° 50′	30.14	765.5	70	21.1	95	nne.			6		10					4	nne.	drizzling.
H. M. S. Griffon, N. 50° 06′, W. 56° 08′	30.03	762.7	49	9.4	77	ne.			1		10							overcast.
H. M. S. Iris, N. 32° 40′, E. 24° 30′	30.39?	771.9?	80	26.7	82	nne.			2-3		0					2	wnw.	blue sky.
H. M. S. Iron Duke, N. 34° 56′ E. 139° 57′	29.80	756.9	73	22.8	95	s.			1		0					2	se.	blue sky.
H. M. S. Kingfisher, N. 26° 30′, W. 114° 11′	29.93	760.2	62	16.7		nw.			3		2					3	nw.	d. clouds.
H. M. S. Lark, S. 10° 40′, E. 162° 22′	29.95	760.7	79.3	26.3	98	se.			2		10					2	se.	thnd'rstorm.
H. M. S. Liffey, Coquimbo, Chili	30.09	764.3	51.5	10.8		calm			0		5	n.						d. clouds.
H. M. S. Magpie, N. 35° 19′, E. 140° 27′	29.78	756.4	71.9	22.2	88	s.			1		0					4	se.	blue sky.
H. M. S. Minotaur, Malta, Mediterranean	29.96	761.0	78	25.6	69	wnw.			2		0					1	wnw.	blue sky.
H. M. S. Nelson, S. 36° 50′, E. 174° 49′	29.52	749.8	57	13.9	87	sw.			3-5		8	w.						showery.
H. M. S. Northampton, Halifax, Nova Scotia	29.59	751.6	52.5	11.4	93	e.			3		10							raining.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.84	757.9	82.5	28.1	91	s.			2		9							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Is d	30.20	767.1	68	20.0	84	se.			2-4		7	ese.						d. clouds.
H. M. S. Rocket, Vancouver Island, B. A.	30.02	762.5	48	8.9	7	wsw.			1		1							blue sky.
H. M. S. Sappho, S. 25° 05′ W. 130° 00′	30.29	769.4	68.5	20.3		se.			4		4	se.				4	se.	d. clouds.
H. M. S. Swiftsure, S. 22° 28′ W. 40° 41′	29.99	761.7	74.5	23.6	95	sse.			3-4		9	ssw.				7	ssw.	showery.
H. M. S. Sylvia, Montevideo, Uruguay	30.18	766.6	47.7	8.7	73	s.			2		8							d. clouds.
H. M. S. Tenedos, N. 46° 08′ W. 60° 09′	29.80	756.9	49	9.4	93	e.			2-3		10							overcast.
H. M. S. Triumph, Valparaiso Chili	30.14	765.5	53	11.7	86	n.			1		10	calm						d. clouds.
H. M. S. Woodlark, Bassorah, Asiatic, Turkey	29.45	748.0	99.5	37.5	37	nw.			3-5		0							blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.10	764.4	77.5	25.3	81	ne.			2		0					2		blue sky.
Tamega, Macao, China	29.85	758.2	86.0	30.0	78	ssw.			3		7							d. clouds.
SWEDISH NAVAL.																		
Saga, N. 58° 35′, W. 7° 40′	29.94	760.5	59.5	15.3	82	ssw.			3		8							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	30.10	764.5	81	27.2	87	wsw.	7	3.1			8		wsw.	0.01	0.3			fair.
N. Yard, Portsmouth, N. H.	29.63	752.6	54	12.2	93	sw.	2	0.9			10		sw.	0.65	16.5			misty.
Naval Hospital, Yokohama, Japan*	29.69	754.1	71.5	21.9	85	s.			1		0			0	0			clear.
Adams, Mare Island, Cal.	30.02	762.5	60	15.6	88	ssw.			1		10		sw.	0	0	sm'h		cloudy.
Alaska, Callao, Peru	29.98	761.5	59	15.0	88	calm			0		10			0	0	sm'h		cloudy.
Alert, N. 43° 42′, E. 178° 53′*	30.07	763.8	52	11.1	93	sse.			1		10		calm	0	0	sm'h		cloudy.
Alliance, Boston, Mass	29.64	752.8	57	13.9	87	n.			1		10			h'vy	h'vy			cloudy.
Ashuelot, Yokohama, Japan*	29.70	754.4	72	22.2	85	ssw.			2		2		calm					fair.
Brooklyn, Rio de Janeiro, Brazil	30.10	764.5	66	18.9	94	wsw.	3	1.3			10			0.09	2.3	sm'h		cloudy.
Colorado, New York, N. Y.	29.75	755.6	66	18.9	69	nw.	20	8.9			2		nw.	0	0			clear.
Constellation, S. 38° 03′, W. 73° 20′*	29.80	756.9	71	21.7	90	nw.			2		2		calm			long	s.	fair.
Enterprise, Norfolk, Va*	29.83	757.7	77	25.0	86	nnw.			1		8		nw.					cloudy.
Essex, Barja Bay, Patagonia	29.79	756.7	41	5.0	82	nnw.			1		0?					sm'h	nnw.	cloudy.?
Franklin, Norfolk, Va.	29.84	757.9	78	25.6	73	nnw.	6	2.7			10		w.	0	0			overcast.
Galena, Alexandria, Egypt	29.93	760.2	76	24.4	100	wnw.			3		0					sm'h		clear.
Independence, Mare Island, Cal.	29.98	761.5	59	15.0	88	sw.			3		10		sw.	0	0			cloudy.
Iroquois, San Francisco, Cal	29.94	760.5	58	14.4	94	sw.			1		10			0	0			misty.
Kearsarge, Norfolk, Va.	29.85	758.2	77	25.0	95	nw.			1		8							cloudy.
Lackawana, Callao, Peru*	30.04	763.0	61	16.1	82	calm			0		10							cloudy.
Lancaster, Alexandria, Egypt*	29.92	760.0	78	25.6	91	nw.			3		2			0	0	sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	30.12	765.0	50	10.0	93	sse.			2		10		calm	0	0	sm'h		cloudy
Michigan, Detroit, Mich.	30.18	766.6	59	15.0	76	nw.			1		0							clear.
Minnesota, Newport, R. I.	29.71	754.6	68	20.0	79	w.	2	0.9			8		w.					cloudy.
Monocacy, Port Hamilton, Korea	29.78	756.4	71	21.7	85	nne.			1		10		calm					cloudy.
New Hampshire, Newport, R. I.	29.68	753.9	61	16.1	88	sw.			2		8		w.			sm'h		fair.
Nipsic, Corfu, Ionian Islands*	29.88	758.9	75	23.9	81	wnw.			2		10					sm'h		raining.
Onward, Callao, Peru†	30.16	766.1	59	15.0	94	calm			0		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.69	754.1	74	23.3	90	wsw.			1		2		ssw.					fair.
Passaic, Washington, D. C.	29.88	758.9	71	21.7	90	nw.			3		8		nw.					cloudy.
Pensacola, S. 5° 09′ W. 82° 00′*	29.94	760.5	63	17.2	83	sse.			5		2		sse.	0	0	long	sse.	fair.
Portsmouth, N. 45° 14′, W. 8° 40′*	30.18	766.6	68	20.0	84	nne.			1		5							clear.
Powhatan, N. 25° 58′, W. 80° 05′	30.15	765.8	88	31.1	76	s			1		2					sm'h		clear.
Quinnebaug, Alexandria, Egypt	29.91	759.7	79	26.1	78	nw.			3		0					sm'h		hazy.
Ranger, Mare Island, Cal.	30.00	762.0	60	15.6	88	sw.			2-3		10		calm	0	0			overcast.
Richmond, Yokohama, Japan*	29.67	753.6	74	23.3	81	ssw.			1		0			0	0			clear.
Saratoga, N. 45° 17′ W. 8° 44′	30.20	767.1	64	17.8	89	ne.			1		5		ne.	0	0	long	ne.	fair.
St. Louis, League Island, Pa.	29.96	761.0	67	19.4	64	nw.			3		2			0.4	10.			clear.
Swatara, Yokohama, Japan*	29.62	752.3	74	23.3	76	ssw.			1		0					sm'h		clear.
Tennessee, off New York, N. Y.	29.78	756.4	72	22.2	67	wnw.	18	8.0			2			0	0			clear.
Vandalia, Portsmouth, N. H*	29.59	751.6	54	12.2	93	ssw.			1		10		calm					raining.
Wabash, Boston, Mass	29.63	752.6	57	13.9	94	w.	4	1.8			8		sw.	0.45	11.4			fair.
Wachusetts, Highfield Harbor, Alaska	29.12	739.6	46	7.8	92	calm			0		0			0	0	sm'h		clear.
Wyoming, Port Royal, S. C.	29.96	761.0	78	25.6	82	wnw.	10	4.5			2		sw.	0.54	13.7			clear.
Yantic, off Fort Point, Maine	29.58	751.3	54	12.2	93	n.			1		10							drizzling.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, Montreal, Canada*	29.59	751.6	61	16.1		wnw.			3		8		nw.	17 h'r	17 h'r			cloudy.
S. S. Nova Scotian, N. 40° 43′, W. 66° 41′	29.50	749.3	52	11.1		wsw.			4		5		w.			sli't	ssw.	fair.
S. S. Scandinavian, N. 52° 31′, W. 15° 08′*	30.04	763.0	57	13.9		wsw.			4		10		wsw.	0	0	light	wsw.	d. clouds.
S. S. Waldensian, N. 47° 06′, W. 40° 46′*	29.90	759.4	60	15.6		w.			6		2?		wnw.	8 h'r	8 h'r	short	cross	cloudy.?
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, N. 41° 13′, W. 51° 55′*†	29.99	761.7				s.			4		10		wnw.	0	0	mod.	nw.	cloudy.
S. S. Pennsylvania, N. 51° 23′, W. 15° 22′†	30.20	767.1	58	14.4		nw.			3		1		nw.			sm'h	sw.	blue sky.
ANCHOR LINE.																		
S. S. Bolivia, N. 41° 27′, W. 54° 23′†	29.90	759.4	63	17.2		ese.			3		8		sw.	4 h'r	4 h'r	r'gh	ssw.	cloudy.
S. S. Ethiopa, N. 50° 35′, W. 30° 20′	29.85	758.2	59	15.0	94	wsw.			2		10		sw.	6 h'r	6 h'r	sli't	sw.	hazy.
S. S. Galatia, N. 52° 24′, W. 5° 54′†	30.29	769.4	59.3	15.2		wsw.			2		7		w.	0	0	sm'h	sw.	hazy.
S. S. Utopia, N. 41° 55′, W. 45° 52′†	30.26	768.6	68	20.0	60	w.			6		8		sw.	4 h'r	4 h'r	high	con	cloudy.
ATLAS LINE.																		
S. S. Atlas, N. 16° 43′ W. 75° 44′†	30.06	763.5	82	27.8	83	ne.			6		5		ne.	8 h'r	8 h'r	r'gh	ne.	squally.
S. S. Alvena, N. 19° 03′, W. 75° 23′†	29.99	761.7	80	26.7	82	ene.			2		5		ne.	2 h'r	2 h'r	mod.	ne.	fair.
S. S. Alvo, N. 23° 58′, W. 74° 15′	30.21	767.3				se.			3		2		se.	0	0	mod.	se.	clear.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 43° 23′, W. 66° 02′†	29.51	749.5	64	17.8		w.			3		fg			2 h'r	2 h'r		se.	overcast.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran, S. 15° 24′ W. 78° 54′	30.00	762.0	73.5	23.1	85	se.			7		5							d. clouds.
S. S. Auckland, N. 24° 55′, W. 23° 16′	30.19	766.8	76	24.4	81	ne.			2	6 ck	0	sw.						blue sky.
S. Baroda, S. 23° 31′, E. 53° 54′	30.35	770.9	71.4	21.9	79	s.			4		4							d. clouds.
British Merchant, N. 46° 52′, W. 15° 47′	30.25	768.3	64	17.8	89	s.			2		10							showery.
S. S. City of Agra, N. 26° 12′, W. 21° 00′	30.21	767.3	74	23.3	85	ene.			3		0							blue sky.
S. S. Glencairn, N. 12° 13′, W. 30° 54′	30.10	764.5	78	25.6	82	ne.			5		4							d. clouds.
S. S. Markland, S. 24° 16′, W. 131° 48′	30.21	767.3	70	21.1	95	ese.			4		10					con.		d. clouds.
Bkt. May Hulse, S. 29° 30′, W. 25° 24′	30.02	762.5	67	19.4	94	nnw.			4		10							raining.
S. S. Oamarn, S. 25° 30′, E. 50° 50′	30.43	772.9	71.0	21.7	71	ese.			5–6		2							blue sky.
S. S. Pole Star, N. 6° 25′ W. 29° 38′	30.07	763.8	78.7	25.9	100	ene.			2		10							raining.
S. S. Rosetta, N. 7° 31′, E. 108° 02′	29.83	757.7	84.5	29.2	55	wnw.			4		10							overcast.
CROMWELL LINE.																		
S. S. Hudson, N. 33° 50′, W. 76° 20′†	29.95	760.7	78	25.6		wsw.			6		7		ssw.	0	0	long	sw.	cloudy.
CUNARD LINE.																		
S. S. Marathon, N. 49° 54′, W. 27° 35′	29.94	760.5	57	13.9		sw.			3		10		sw.	0	0	mod.	wsw.	misty.
S. S. Scythia, N. 41° 23′, W. 49° 48′	30.04	763.0	71	21.7	79	se.			1		5?		calm	0	0	sli't	w.	cloudy ?
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N 49° 30′, W. 11° 00′†	30.07	763.7	57.2	14.0		wnw.			4	ck		w.		0	0	h'vy	w.	covered.
S. S. Ville de Marseilles, Marseilles, France*†	29.85	758.2	76	24.4		nw.			6		3		nw.	0	0			clear
GUION LINE.																		
S. S. Wisconsin, N. 44° 10′, W. 43° 15′	29.93	760.2	58	14.4	76	w.			5		10		w.	0	0	mod.	w.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 48° 17′, W. 23° 00′†	30.16	766.1				sw.			4		8		w.	0	0	sm'h	sw.	foggy.
S. S. Cimbria, N. 45° 42′, W. 37° 17′	29.86	758.4	64	17.8		sw.			6		9		sw.	2 h'r	2 h'r	r'gh	sw.	cloudy.
S. S. Gellert, N. 49° 37′, W. 9° 14′	30.25	768.3	67	19.4		nw.			2		5		nw.	0	0	mod.	nw.	fair.
S. S. Herder, N. 40° 27′, W. 58° 14′*†	29.75	755.6	79	26.1		sw.			5		10		wsw.	4 h'r	4 h'r	cross	wsw.	covered.
S. S. Silesia, Elba river, Germany†	30.16	766.1				n.			4		2		nnw.	0	0			fair.
S. S. Wieland, N. 49° 37′, W. 6° 28′	30.20	767.1	62	16.7		nw.			4		5		nw.	0	0	2	w.	fair.
JOHNSTON LINE.																		
S. S. Thanemore, N. 39° 19′, W. 68° 38′	29.68	753.9				nw.			5		10		nw.	8 h'r	8 h'r	sli't	w.	cloudy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 52°, W. 6° 00′*†	30.31	769.9	64	17.8		w.			4		3		wsw.	0	0	sm'h		clear.
MALLORY LINE.																		
S. S. Colorado, N. 38° 07′, W. 74° 35′†	29.73	755.1	77	25.0		nw.			3		1		nw.	0	0	long	s.	clear.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, Santos, Brazil	29.57	751.1				w.			4				sw.	0	0			fine.
S. S. Glenapp, N. 13° 57′ W. 54° 47′†	30.07	763.8				ene.			3		4		ne.	0	0	mod.	ne.	fine.
NATIONAL LINE.																		
S. S. Canada, N. 42° 51′ W. 42° 45′†	30.05	763.3	66	18.9		sw.			3		4		w.	0	0	h'vy	w.	fine.
S. S. Denmark, London, Eng.	30.09	764.3	72	22.2		calm			0		0			0	0			clear.
S. S. Erin, N. 51° 30′, W. 8° 55′	30.17	766.3	58	14.4		calm			0		0			1 h'r	1 h'r	sm'h		clear.
S. S. Greece, N. 41° 17′, W. 51° 46′	30.05	763.3				se.			2		8		sw.	0	0	sm'h	nw.	overcast.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, Cienfuegos, Cuba, W. I.†	30.20	767.1	83	28.3														
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Vera Cruz, Mexico†	30.15	765.8	81	27.2	87	sw.			1		5		e.	1 h'r	1 h'r			showery.
S. S. City of Washington, N. 29° 48′, W. 77° 50′*†	30.20	767.1	85	29.4		wsw.			4		2		sw.	0	0	mod.	sw.	fine.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 40° 40′, W. 73° 00′*†	29.94	760.5	68	20.0		w.			4									fair.
NORTH GERMAN LLOYD.																		
S. S. America, N. 49° 16′, W. 17° 01′*	30.22	767.6	62.6	17.0		ssw.			4		8		ssw.	0	0	sm'h		foggy.
S. S. Habsburg, N. 49° 17′, W. 19° 42′	30.16	766.1	59.9	15.5		ssw.			4–5		10			0	0	mod.	ssw.	light fog.
S. S. Hermann, N. 49° 12′ W. 18° 21′	30.19	766.8	59.0	15.0		ssw.			4		6		sw.	0	0	mod.	sw.	foggy.
S. S. Leipzig, N. 38° 56′, W. 64° 38′	29.72	754.9	75.0	23.9	100	wsw.			2		10		sw.	4 h'r	4 h'r	cr oss	wsw.	thnd'rstorm.
S. S. Ohio, Bremerhaven, Germany						e.			4		3		nne.	0	0			fair.
S. S. Rhein, N. 40° 20′ W. 70° 05′	29.66	753.4				w.			1					3 h'r	3 h'r	sm'h		foggy.
S. S. Salier, N. 40° 54′ W. 55° 56′	29.87	758.7	61.7	16.5		s.			5		10		ssw.	1 h'r	1 h'r	long	ssw.	raining.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, San Francisco, California†	30.12	765.0	60	15.6	82	sw.			5		5		sw.					foggy.
S. S. Coptic, N. 39° 17′. E. 156° 12′	29.68	753.9	59.5	15.3	100	w.			2		10		w.	0	0	3		foggy.
S. S. Gaelic, N. 47° 43′, W. 170° 43′†	30.28	769.1	53	11.7	60	var.			1		10		n.			light	nw	overcast.
S. S. Oceanic, N. 25° 34′, E. 120° 16′*	29.75	755.6	82	27.8	95	sw.			4		8		sw.			4	sw.	showery.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 37° 15′, W. 74° 47′†	29.80	756.9				nnw.			3		1			0	0	sm'h		clear.
S. S. City of Columbus, Savannah, Ga.†	29.99	761.7				wnw.			2		0			3 h'r	3 h'r			clear.
S. S. Seminole, N. 38° 00′, W. 74° 06′†	29.87	758.7	81	27.2		nw.			3		1		nnw.	0	0	mod.	ssw.	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, Portland, Oregon†	29.99	761.7	62	16.7	85	calm			0		0							clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Calif.	29.96	761.0	57	13.9	93	w.			1		10		w.					cloudy.
S. S. Dakota, N. 40° 26′, W. 124° 51′*†	30.00	762.0	55	12.8	93	nw.			4		8		nw.			light	nw.	foggy.
S. S. State of California, N. 40° 26′, W. 124° 30′†	29.97	761.2	50	10.0	93	nnw.			4		10		nw.			sm'h	nw.	foggy.
S. S. Victoria, Nanaimo, Vancouver's Island, B. C.†	29.96	761.0	55	12.8	93	calm			0		0			0	0			clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, Australia†	30.15	765.8	69	20.6	95	w.			3		5?		w.	0	0			clear?
S. S. City of New York, N. 36° 40′, W. 125° 00′†	29.93	760.2	65	18.3	78	sw.			2		10		wsw.	0	0	long	w.	misty.
S. S. City of Pekin, N. 33° 36′, E. 136° 31′†	29.81	757.2	75	23.9	77	ese.			2		2		s.	0	0	sm'h		clear.
S. S. City of Sydney, Sydney, N. S. W.†	30.07	763.8	54	12.2	74	w.			4		2		w.	0	0	sm'h		clear.
S. S. City of Tokio, N. 38° 00′, W. 130° 13′†	30.18	760.6	59	15.0	82	n.			3		10			0	0	light	n.	misty.
S. S. Colon, N. 38° 02′, W. 74° 00′†	29.81	757.2	72	22.2		w.			2		3		w.	0	0	small	sw.	fair.
S. S. Colima, N. 15° 51′, W. 97° 58′†	29.96	761.0	80	26.7	82	ne.			3		10		sw.	0.55	14.0	mod.	sw.	cloudy.
S. S. Granada, N. 7° 49′, W. 79° 48′†	29.96	761.0	77	25.0	?	e.			2		8?		se.	2 h'r	2 h'r	mod.	s.	clear ?
S.S. Zealandia, N. 19° 35′, W. 158° 06′	30.10	764.5	79	26.1	86	ne.			3		5		n.			sm'h		fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	Upper. From.	Lower. From.	Inch.	Mill.			
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, Guadaloupe, W. I.	29.95	760.7	82	27.8	.....	ene.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	fair.
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	30.09	764.3	68	20.0	65	calm	.....	.....	0	.....	8	.....	calm	0	0	.....	.....	
S. S. Rhynland, Isle of Wight, Eng	30.16	766.1	58	14.4	88	se.	.....	.....	1	.....	.....	.....	.....	0	0	light	se.	foggy.
S. S. Switzerland, N. 39° 43′, W. 53° 05′†	30.12	765.0	.....	.....	.....	se.	.....	.....	4	.....	10	.....	se.	2 h'r	2 h'r	long	wnw.	cloudy.
S. S. Vaderland, N. 46° 29′, W. 29° 16′	29.92	760.0	70	21.1	85	ssw.	.....	.....	4	.....	0	.....	.....	0	0	mod.	.....	misty.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 40° 56′, W. 56° 20′*	29.75	755.6	71.4	21.9	96	s.	.....	.....	5	.....	9	.....	sw.	10 h'r	10 h'r	cross	.....	raining.
S. S. W. A Scholten, N. 50° 38′, W. 0° 04	30.03	762.7	63.8	17.7	89	sse.	.....	.....	3	.....	2	.....	e.	0	0	sm'h	e.	
STATE LINE.																		
S. S. State of Florida, N 40° 44′, W. 58° 08′	29.63	752.6	76	24.4	.....	se.	.....	.....	6	.....	10	.....	se.	24 h'r	24 h'r	mod.	se.	heavy rain.
S. S State of Indiana, N. 41° 50′, W. 52° 01′†	30.14	765.5	60	15.6	.....	s.	.....	.....	3	.....	7	.....	se.	2 h'r	2 h'r	mod	nw.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 50° 45′, W. 37° 25′†	30.12	765.0	61.7	16.5	.....	ese.	.....	.....	2	.....	10	.....	ese.	6 h'r	6 h'r	long	s.	covered.
WARREN LINE.																		
S. S. Iowa, N. 41° 19′, W. 48° 23′*†	30.20	767.1	67	19.4	.....	w.	.....	.....	2	.....	8	.....	w.	0	0	mod.	wsw.	cloudy.
WHITE CROSS LINE.																		
S. S. Plantyn, Scheldt River, Germany	30.08	764.0	.....	.....	.....	.....	.....	.....	2–4	.....	6	.....	nne.	.....	.....	sm'h	.....	fine.
WHITE STAR LINE.																		
S. S. Baltic, N. 39° 53′ W. 66° 45′†	29.72	754.9	73	22.8	95	wsw.	.....	.....	4	.....	10	.....	wsw.	0	0	sl't	con.	misty.
S. S. Britannic, N. 50° 29′, W. 24° 45′†	29.99	761.7	58	14.4	100	s.	.....	.....	5	.....	fg.	.....	.....	.....	.....	mod.	sw.	misty.
S. S. Celtic, New York. N. Y†	29.82	757.4	69	20.6	75	nw.	.....	.....	5	.....	2	.....	nw.	0	0	.....	.....	fair.
S. S. Germanic, N. 51° 00′, W. 14° 32′†	30.32	770.1	58	14.4	.....	sw.	.....	.....	3	.....	1	.....	se.	.....	.....	sm'h	.....	blue sky.
S. S. Republic, N. 41° 23′, W. 55° 40′†	29.97	761.2	69	20.6	95	sse.	.....	.....	6	.....	10	.....	sse.	4 h'r	4 h'r	mod.	sse.	raining.
WILSON LINE.																		
S. S. Romano, N. 40° 07′, W. 63° 23′	29.68	753.9	74	23.3	.....	sw.	.....	.....	4	.....	10	.....	sw.	6 h'r	6 h'r	mod.	s.	overcast.
MISCELLANEOUS.																		
Schr. Addie Fuller, Bath, Me†	29.65	753.1	53.5	11.9	100	calm	.....	.....	0	.....	10 n	.....	.....	0.49	12.4	.....	.....	drizzling.
Schr. Ajax, Indianola, Texas	.....	.....	.....	.....	.....	calm	.....	.....	0	.....	8	.....	sse.	0	0	.....	.....	cloudy.
Bk. Alpha, New York, N. Y†	29.75	755.6	71	21.7	.....	nw.	.....	.....	7	.....	2	.....	nw.	1 h'r	1 h'r	.....	.....	fair.
Schr Annie Lewis, N. 28° 32′, W. 91° 30′†	30.29	769.4	84	28.9	.....	s.	.....	.....	2	.....	5?	.....	s.	0	0	long	s.	cloudy?
Bk. Anna Thormann, S. 33° 46′ W. 20° 00′	30.03	762.8	64.2	17.9	96	nw.	.....	.....	3	.....	9 k;n	.....	nw.	15 h'r	15 h'r	mod.	sw.	misty.
S. S. Antonio Lopez, Barcelona, Spain	30.01	762.2	74.5	23.6	76	s.	.....	.....	3	.....	4	.....	.....	0	0	.....	.....	fair.
S. Argonaut, N. 53° 43′ E. 5° 35′*†	30.21	767.3	64.8	18.2	.....	ne.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
Schr. Asa Eldridge, N. 26° 00′, W. 82° 15′†	30.09	764.3	.....	.....	.....	se.	.....	.....	1	.....	1	.....	.....	0	0	sm'h	.....	fair.
Bk. Aureola, S. 22° 10′, W. 40° 00′*†	30.16	766.1	76	24.4	.....	sw.	.....	.....	2	.....	10	.....	sw.	4 h'r	4 h'r	long	sw.	overcast.
Bk. Bergenseren, N. 40° 40′. W 67° 00′†	29.57	751.0	.....	.....	.....	se.	.....	.....	4	.....	fg.	.....	s.	rain	rain	4	ssw.	foggy
Bk. Cato, N. 41° 05′, W. 45° 30′*†	30.43	772.9	.....	.....	.....	w.	.....	.....	2	.....	2	.....	w.	0	0	long	wnw.	fair.
Schr. C. R. Flint, Cedar Keys, Florida†	30.34	770.6	81	27.2	.....	w.	.....	.....	3	.....	5?	.....	w.	0	0	.....	.....	cloudy.
Schr. Edith R. Seward, N. 22° 27′, W. 64° 52′*†	30.26	768.6	85	29.4	.....	e.	.....	.....	1	.....	2	.....	se.	0	0	long	ese	clear.
S. E. J. Spicer, N. 41° 48′, W. 64° 12′†	29.65	753.1	.....	.....	.....	wsw.	.....	.....	5	.....	10	.....	wsw.	12 h'r	12 h'r	mod	wsw.	dense fog.
Bk. Essex, S. 24° 45′ W. 27° 06′*†	30.07	763.8	73	22.8	.....	ne.	.....	.....	5	.....	9	.....	nne.	6 h'r	6 h'r	long	ne.	rainy.
Bk. Freya, N. 41° 04′ W. 58° 00′	.....	.....	70	21.1	.....	ssw.	.....	.....	7	.....	10	.....	sw.	3 h'r	3 h'r	mod.	s.	squally.
S. Grecian, Hong Kong, China*†	29.90	759.4	85	29.4	.....	calm	.....	.....	0	.....	2	.....	ssw.	0	0	.....	.....	clear.
Bk. Hattie G. McFarland, Portland, Me*†	29.60	751.8	54	12.2	.....	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	.....	cloudy.
S. Hedwig, N. 35° 55′, W. 5° 58′	30.04	763.0	74.3	23.5	91	sse.	.....	.....	2	.....	4	.....	sse.	0	0	2	nw.	foggy.
S. Ismir, S. 45° 20′, E. 13° 15′†	29.62	752.3	.....	.....	.....	nw.	.....	.....	6	.....	9	.....	nw.	2 h'r	2 h'r	long	nw.	gloomy.
S. Ivy, N. 28° 35′, W. 126° 32′†	30.21	767.3	62	16.7	.....	calm	.....	.....	0	.....	10	.....	.....	0	0	mod.	nnw.	cloudy.
Schr. Jennie N. Huddell, Camden, N. J†	29.95	760.7	71	21.7	85	nw.	.....	.....	3	.....	2	.....	.....	0	0	.....	.....	clear.
Schr. John L. Thomas, Vivorilla Cays, C. A*†	30.10	764.5	.....	.....	.....	ese.	.....	.....	3	.....	7	.....	ese.	2 h'r	2 h'r	.....	.....	rainy.
Bg. John Wesley, N. 34° 02′ W. 74° 20′†	29.87	758.7	.....	.....	.....	e.	.....	.....	5	.....	5	.....	se.	0	0	cross	se.	fair.
Bk. Joseph A. Ropes, N. 21° 04′, W. 35° 28′	30.23	767.8	80	26.7	74	ene.	.....	.....	4	.....	4	.....	ene.	0	0	mod.	ene.	fair.
S. S. Lamperts, N. 17° 18, E. 40° 20′*	29.78	756.4	88.0	31.1	72	nnw.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
Light House Tender, Laurel, Key West, Florida†	30.18	766.6	86	30.0	.....	e.	.....	.....	2	.....	4	.....	e.	0	0	.....	.....	fair.
S. S. Malabar, N. 46° 40′, E. 160° 00′*†	30.00	762.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	
S. S. Nebo, Glasgow, Scotland*†	30.00	762.0	.....	.....	.....	sw.	.....	.....	2	.....	5?	.....	sse.	0	0	.....	.....	clear?
Bk. Orpheus, N. 44° 50′, W. 22° 50′	30.31	769.9	68	20.0	.....	w.	.....	.....	2–3	.....	10 k	.....	wnw.	.....	.....	mod.	w.	hazy.
S. Paramita, S. 33° 30′ W. 97° 20′†	29.59	751.6	60	15.6	.....	nw.	.....	.....	8	.....	7	.....	wsw.	3 h'r	3 h'r	cross	.....	squally.
S. S. Ponca, Paea Brazil†	29.92	760.0	88	31.1	.....	ese.	.....	.....	1	.....	1	.....	.....	0	0	.....	.....	clear.
Bk. Rosebud, S. 34° 08′, E. 9° 54*†	30.50	774.7	58	14.4	87	sw.	.....	.....	3–6	.....	8	.....	sw.	shr's	shr's	long	wsw.	gloomy.
S. S. Sunbeam, N. 36° 30′, E. 13° 26′	30.00	762.0	75.5	24.2	76	nnw.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
S. Sovereign of the Sea, N. 20° 27′, W. 37° 13′*†	30.10	764.5	83	28.3	83	ne.	.....	.....	4	.....	1	.....	.....	0	0	mod.	e.	clear.
Bg. Teneriffe, Cardenas, Cuba, W. I.	30.10	764.5	.....	.....	.....	ne.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	
Bk. Truro, N. 50° 06′, W. 18° 00′*†	30.14	765.5	.....	.....	.....	s.	.....	.....	3	.....	10	.....	s.	0	0	sm'h	.....	cloudy.
U.S.F.C.S.S. Fish Hawk, Washington, D. C.†	29.69	754.1	75	23.9	95	nnw.	.....	.....	3	.....	7	.....	nw.	0.01	0.3	.....	.....	cloudy.
Schr Viola Reppard, N. 36° 56′, W 75° 50′†	29.09	738.9	78	25.6	.....	nw.	.....	.....	2	.....	2	.....	n.	1 h'r	1 h'r	sm'h	.....	clear.
Bk. Wm. Wilcox, S. 18° 20′ W. 36° 10′*†	30.23	767.8	78	25.6	.....	n.	.....	.....	3	.....	10	.....	n.	0	0	mod.	n.	cloudy.
S. Wm. Woodbury, N. 42° 37′ W. 32° 40′*	30.13	765.3	73	22.8	76	sw.	.....	.....	6	.....	7?	.....	sw.	0	0	long	wsw.	clear.?

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 3, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.96	760.9	78.1	25.6	70	se.			2		1			0	0	very fair	Bouvier.
Algiers			30.02	762.5	77.7	25.4	65	ne.			2		1			0	0	very fair	Nicolas.
La Calle			29.98	761.6	73.8	23.2	81	nne.			4		4			0.098	2.5	cloudy	Fonfrède.
Tunis			30.00	761.9	92.5	33.6													Jacques.
Saida			30.04	763.0	83.5	28.6	37	ese.			3		3			0	0	pretty fair	Perés.
Tebessa			30.06	763.5	75.6	24.2	41	nw.			1		0			0	0	clear	Derché.
Geriville					86.0	30.0	10	nnw.			4		1			inap.	inap.	very fair	Lonchamp.
Laghouat			30.06	763.6	89.6	32.0	36	w.			3		3			0.118	3.0	pretty fair	Abraham.
Biskra			30.06	763.5	98.6	37.0	28	se.			1		3			0.118	3.0	pretty fair	Malau.
Australian.																			
Melbourne, Victoria	29.70	754.4	29.80	756.9	50.0	10.0	93	n.	6	2.7			10			0.02	0.5	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.46	748.3	29.99	761.8	69.8	21.0	52	so.			2		8			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.24	742.7	29.99	761.8	64.4	18.0	56	ne.	2.5	1.1			9			0.264	6.7		Dr. Wierzbiski.
Eperies	29.09	738.9	29.96	761.0	58.6	14.8	68	n.			2		10 ks		s.	0	0		Julius Mikolik.
Gratz	28.80	731.6	30.03	762.8	63.3	17.4	76	sw.			2		10			0	0		Andreas Rospini.
Hermannstadt	28.44	722.4	29.82	757.4	68.4	20.2	51	nw.			4		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.71	729.1	30.02	762.4	64.9	18.3	74	calm			0		7			0.106	2.7	raining	The Staff.
Lemberg	28.89	733.7	29.87	758.6	55.0	12.8	87	e.			2		10			0.441	11.2		Dr. T. Stanecki.
Pola	29.86	758.4	29.97	761.2	65.7	18.7	82	n.			2		10			0.067	1.7		I. R. Hydrographic Office.
Szathmar	29.40	746.8	29.85	758.1	61.3	16.3	78	nw.			1		10			0.016	0.4		Joseph Midlinszky, S. J.
Szegedin	29.67	753.6	29.94	760.5	65.5	18.6	69	calm			0		6			0	0		Karl Stancel.
Trieste	29.93	760.1	30.03	762.7	64.4	18.0	84	calm			0		10			0.220	5.6		Royal Academy.
Vienna	29.33	744.9	30.02	762.6	68.7	20.4	37	nw.			2		8			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.75	755.6	29.85	758.2	60.2	15.7	81	ssw.	14	6.3			9			0.300	7.6	overcast	W. Boswell
Armagh, Observatory	29.68	753.9	29.91	759.7	64.6	18.1	80	ssw.	20	8.9			9					overcast	S. Oall.
Bidston, Liverpool Obs'y			30.02	762.5	67.8	19.9	65	sw.	17	7.6			7					d. clouds	John Hartnup.
Bolton, Sharples	29.48	748.8	30.00	762.0	65.0	18.3	74	sw.	12	5.4			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.62	752.3	30.01	762.2	64.4	18.0	70	nw.			2		10			0.06	1.5	overcast	McLandsborough & Preston.
Bridgetown, Barbadoes	30.06	763.5	30.09	764.3	83.0	28.3	72	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			30.05	763.3	72.4	22.4	71	w.			0.4		9					overcast	John McLaren.
Chatham, School M. E.	29.98	761.5	30.10	764.5	74.9	23.8	61	sw.			1		7					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.93	760.2	30.16	766.1	65.6	18.7	68	ssw.			2		7					d. clouds	The Staff.
Fort Napier, Natal	27.73	704.3	29.94	760.5	73.2	22.9	26	e.			2		2					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.67	753.6	29.90	759.4	81	27.2	82	sw.			1		5						Sergt. John Robinson.
Gibraltar, Mediterranean	30.01	762.2	30.06	763.5	79.5	26.4	73	sw.			4		0					blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.70	754.4	29.90	759.4	58.4	14.7	87	wsw.			3		10 n					raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.91	759.7	30.08	764.0	72.2	22.3	65	wsw.			1		8					d. clouds	The Staff.
Guernsey	29.87	758.7	30.17	766.3	62.5	16.9	74	wnw.			1		9					gloomy	A. Collenette, F. M. S.
Kew, Observatory	30.06	763.5	30.09	764.3	70.8	21.6	61	sw.	12	5.4			7					d. clouds	The Staff.
Leicester, Museum	29.79	750.7	30.04	763.0	70.6	21.4	63	sw.			2		8			blank	blank	d. clouds	J. C. Smith.
Malta, Mediterranean	29.88	758.9	29.95	760.7	79.6	26.4	72	n.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.14	765.5	30.18	766.6	87.0	30.6	65	s.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.55	750.6	30.06	763.5	69.0	20.6	65	sw.			3		9			blank	blank	gloomy	Warren Middleton.
Oxford, Radcliffe Obs'y	29.85	758.2	30.08	764.0	71.2	21.8	63	wsw.			2		5					d. clouds	The Staff.
Plymouth	30.06	763.5	30.14	765.5	68.2	20.1	68	sw.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.75	755.6	58.5	14.7	79						10					overcast	Rev. O. Clouston, L. L.D
Scutari Cemetery, Turkey	29.74	755.4	29.80	756.9	88.2	31.2	40	calm			0		1					blue sky	W. H. Lyne.
Sheffield	29.74	755.4	30.01	762.2	72.2	22.3	65	sw.			1		8			inap.	inap.	overcast	W. F. Cooper.
Silloth Rectory	29.90	759.4	29.94	760.5	67.0	19.4	64	sw.			4		10			0.865	22.0	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.03	762.7	65.5	18.6	70	wsw.	13	5.8			6					d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.90	759.4	30.12	765.0	70.0	21.1	73	sw.			3		5					d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.13	765.3	30.14	765.5	70	21.1	50	nw			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	29.96	761.0	29.99	760.7	60.0	15.6	95	s.	33	14.8			10					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.							86												Hon. J. Ferguson.
Charlottetown, P. E. Island	29.45	748.0	29.49	749.0	49	9.4	86	w.	15	6.7			10 n		w.	0.354	9.0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.46	748.3	29.52	749.8	47	8.3	86	w.	11	4.9		2 k	5 ks	w.	w.	0.97	24.6	fair	G. A. Blair.
Father Point, Quebec*	29.60	752.8	29.62	752.3	44	6.7	93	w.	17	7.6			10 n		calm	0.24	6.1	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.27	743.4	30.09	764.3	55	12.8	93	n.	6	2.7		5 cs	5 k	ne.	ne.	0.136	3.4	threatening	James Stewart.
Halifax, N. S*	29.44	747.8	29.57	751.1	54	12.2	86	sw.	11	4.9		8 k	0	w.		0.042	1.1	cloudy	A. Allison.
Kingston, Ontario*	29.56	750.8	29.89	759.2	56	13.3	77	ne.	4	1.8		0	0			0.02	0.5	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.60	751.8	29.80	756.9	54	12.2	83	w.	12	5.4		2 cs	8 ks	nw.	nw.	0.22	5.6	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.25	742.9	29.93	760.2	57	13.9	69	n.	6	2.7		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.26	743.2	29.91	759.7	57	13.9	94	calm	0	0			10 ks		w.	inap.	inap.	cloudy	H. Morgan.
Port Stanley, Ontario	29.30	744.2	29.93	760.2	58	14.4	83	n.	5	2.2			10 n		w.	inap.	inap.	light rain	M. Payne.
Quebec, Quebec*	29.43	747.5	29.75	755.6	49	9.4	80	n.			1		8 n			0.56	14.2	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.44	747.8	29.89	759.2	49	9.4	86	w.	4	1.8		0	3 ks		w.	0.09	2.3	fair	W. H. McIntyre.
Saugeen, Ontario*	29.23	742.4	29.94	760.5	53	11.7	86	calm	0	0		5 cs	0			0	0	fair	
St. Andrews, N. B	29.60	751.8	29.66	753.4	47	8.3	87	nw.	7	3.1		5 k	2 ks	n.	n.	0.25	6.3	fair	
Sydney, C. B*	29.47	748.5	29.53	750.0	55	12.8	90	sw.	14	6.3		1 c	3 ks		sw.	0.28	7.1	fair	T. C. Hill, C. E
Toronto, Ontario*	29.57	751.1	29.94	760.5	58	14.4	67	nw.	10	4.5		3 ck	0	nw.		0	0	fair	Magnetic Observatory.
Yarmouth, N. S*	29.63	752.6	29.70	754.4	48	8.9	93	nw.	12	5.4		0	2 k		nw.	0.01	0.3	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.56	725.4	30.01	762.2	53.0	11.7	86	nw.			2	8 ck	8 ck	nw.		0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.96?	761.0?	30.21?	767.3?	48?	8.9?	100	s.	1	0.4			fg.			0.50	12.7	raining	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.12	765.0	30.15	765.8	64.0	17.8	72	sw.	12.4	5.5		0	1 k			0.080	2.0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.16	766.1	30.20	767.1	62.2	16.8	76	nw.	21	9.4		4	8			0.300	7.6		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.79	756.6	29.81	757.2	69.8	21.0	93	se.	2.7	1.2		3 c	0			0.047	1.2	fair	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.96	761.0	30.01	762.2	66.7	19.3	45	nw.	11	5			5						Oversergent Fischer.
Fanöe	30.03	762.7	30.05	763.2	63.3	17.4	68	wsw.			4		10						Overloerer Lauridsen
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.60	751.9	29.65	753.0	42.8	6.0	79	se.			7		8						A. O. Thorlacius.
Thorshavn	29.67	753.5	29.70	754.4	56.1	13.4	86	se.	7	3			10						Overloerer Bergh.
Vestervig	29.88	758.9	29.97	761.2	60.6	15.9	75	sw.			6		10						Loerer Oesterbol.
French.																			
Agen, Normal School	29.54	750.2	30.20	767.0	76.6	24.8	50	calm			0		k		nw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.62	752.4	30.17	766.4	67.3	19.6	79	sw.			1		k			0	0		M. Nicot, Director.
Arras, Engineer School	29.84	757.8	30.09	764.2	70.5	21.4	04	w.			1	1 c	0	w.		0	0	clear	M. Fénéon, Command't.
Avignon, Normal School	29.92	759.9	30.00	761.9	77.7	25.4	47	n.			3		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.59	751.6	30.13	765.3	71.6	22.0	40	e.			1		7		n.	0	0		M. Saillard, Director.
Beauvais, Normal School	29.90	759.5	30.16	766.1	69.3	20.7	45	ssw.			1		0			0	0	clear	M. Frère Eugène Marié.
Besançon, Normal School	29.17	741.0	30.04	763.0	70.2	21.2	57	nne.			1	0	2 k		ene.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.91	759.8	30.17	766.2	75.2	24.0	60	nne.			1		8			0.004	0.1	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.62	752.4	30.16	766.0	72.5	22.5	48	n.			1		k		n.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.97	761.2	30.21	767.4	65.8	18.8	73	sw.			1		10		sw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.15	765.8	30.22	767.7	68.9	20.5	73	sw.			2		1		sw.	0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.80	756.8	30.07	763.7	73.9	23.3	58	calm			0		2			0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.60	751.7	30.10	764.4	73.4	23	39	n.			1					0.04	1.		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.83	732.3	30.15	765.7	69.4	20.8	43	ne.			2	0	5 k			0	0	½ covered	M. Allnard, Director.
Cluny, Normal School	29.25	743.0	30.07	763.8	69.4	20.8	57	nw.			2		4		nw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.29	744.0	30.15	765.7	72.1	22.3	55	nw.			2		5 kn	nw.	nw.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.51	698.8	29.95	760.7	74.5	23.6	34	se.			3	2	3		w.	0	0		M. Jeanglirard, Director.
Gréasque, du Rhone	28.88	733.5	29.95	760.8	77.8	25.4	28	n.			1		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.27	743.4	30.01	762.3	70.9	21.6	48	nnw.			3	0	2 k			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.60	726.5	30.14	765.6	70.3	21.3	45	ne.			2	0	2 cn		ne.	0	0	slightly cl'dy	M. Rivoire, Director.
Lamballe, Normal School	29.83	757.6	30.10	764.5	56.5	13.6	95	ne.			1		1		ne.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.62	752.4	30.17	766.3	73.4	23.0	52	w.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.13	765.2	30.23	767.8	68.9	20.5	83	sw.			1		8	n.	w.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.08	738.6	30.11	764.8	69.1	20.6	44	n.			2		kn		n.	0	0		M. André, Director.
Mans, Normal School	29.86	758.4	30.16	766.1	68.5	20.3	74	nw.			1		5		w.	0.343	8.7	cloudy	M. Piboen, Director.
Marseille, Observatory	29.71	754.7	29.98	761.4	77.9	25.5	30	w			1		1		w.	0	0		M. Stephan, Director.
Montlouis	24.98	634.4	29.82	757.4	60.8	16.0	49	nw.	15.0	6.7			5	n.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.87	758.6	29.99	761.7	80.6	27	38	nnw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.33	745.0	30.10	764.4	69.8	21.0	04	nw.			1		k		nw.	0.020	0.5		M. Hasse, Director
Nantes, Observatory	30.05	763.2	30.17	766.3	76.5	24.7	61	wsw.			0–2	0	0k		ssw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.97	761.2	30.07	763.8	78.8	26.0	32	nw.	18.6	8.3			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.42	544.0			41.7	5.4		se.			1		5		e.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.03	737.4	30.06	763.4	75.2	24	33	n.			1					0	0		M. Taillon.
Puy de Dôme Obs'y, Summit	25.33	643.3			49.5	9.7	68	nne.			3	0	5 k			0	0	½ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.15	765.8	30.18	766.6	78.3	25.7	95	w.			1		2		sw.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.92	760.0	30.13	765.3	75.2	24	61	w.			1		5		nw.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.01	711.4	30.10	764.5	69.1	20.6	45	nw.			2	0	5 k		se.	0	0	fair	M. Seger, Director.
Rouen, Normal School	30.11	764.9	30.16	766.1	70.2	21.2	63	ne.			1		0			0	0	clear	M. Brotier.
Saint Maur, Observatory	29.99	761.8	30.16	766.0	72.7	22.6	39	ese.			1		1	n.		0	0		M. Renou, Director.
Toulouse, Observatory	29.49	749.0	30.22	767.5	76.3	24.6	40	n.			2		5		nw.	0	0	cloudy	M. Baillaud, Director.
Tours	30.00	762.0	30.18	766.5	69.8	21.0	73	wsw.			1		2	w.	ne.	0.028	0.7	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.67	753.7	30.17	766.2	72.3	22.4	30	n.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.87	758.6	30.16	766.0	70.9	21.6	44	nnw.			1		1		wnw.	0	0		M. Marié Davy, Director
German.																			
Bamberg	29.24	742.6	30.09	764.3	68.0	20.0	50	calm			0	0	3 k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.95	760.8	30.13	765.2	74.5	23.6	34	nw.			2		5			0	0		Prof. Dr. Arndt.
Breslau	29.53	750.0	30.06	763.5	67.6	19.8	34	nw.			2		7			0	0		Royal University Obs'y.
Carlsruhe	29.66	753.4	30.10	764.4	68.0	20.0	69	e.			1		9	nw.		0	0		Albert Senz.
Cassel	29.25	743.0	29.97	761.1	62.2	16.8	53	w.			2		6	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.71	754.7	30.07	763.7	70.5	21.4	65	n.			1		5			0.083	2.1		Physical Society.
Friedrichshafen	28.68	728.4	30.09	764.2	63.9	17.7	78	s.			3		5	w.		0.031	0.8		Wilhelm, Chief Tel.
Hamburg	29.99	761.8	30.09	764.2	66.2	19.0	52	nw.			3		4	w.		0	0		E. Preller.
Kiel	30.03	762.8	30.05	763.2	65.3	18.5	50	ne.			2		6			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.65	753.1	30.06	763.5	70.2	21.2	50	ese.			2		5	nnw.		0.008	0.2		H. Leppig, Asst.
Magdeburg	29.87	758.6	30.05	763.2	73.8	23.2	38	nw.			2	0	3 k		nw.	0	0		Dr. Assmann.
Memel	29.97	761.3	30.02	762.5	64.2	17.9	67	wnw.			3	1 ck	0						Issermann.
Munich	28.29	718.5	30.16	766.0	57.7	14.3	69	calm			0		8		w.	0.610	15.5	lightning	Dr. C. Lang.
Neufahrwasser	29.99	761.7	30.00	762.1	66.2	19.0	74	nw.			1		5			0	0		A. Lothes.
Neustadt, Palatinate	29.54	750.4	30.08	763.9	69.1	20.6	62	calm			0		8			0	0		Dicknether.
Stuttgart	29.12	739.7	29.99	761.8	68.0	20.0	57	n.			1		4	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.07	763.7	30.09	764.3	63.7	17.6	68	nnw.			2	0	3			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.50	749.3			86.9	30.5		sw.			2.5		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.52	749.7	29.56	750.9	87.8	31.0	80	wsw.	32.0	14.3			4		w.	0	0	d. clouds	
Deesa	29.00	736.5	29.45	748.0	98.8	37.1	37	wsw.	11.7	5.2			7	e.		0	0	d. clouds	
Bombay	29.58	751.4	29.62	752.4	79.4	26.3	92	w	8.0	3.6			10		wsw.	0.53	13.5	overcast	
Poona, Yarrowda	27.79	705.9	29.65	753.0	75.6	24.2	76	wsw.	17.0	7.6			10		w.	0	0	overcast	
Trichinopoly	29.48	748.7	29.76	755.8	86.7	30.4	52	wnw.	6.0	2.7			10			0	0	overcast	
Bellary	28.19	716.0	29.63	752.6	87.0	30.6	49	w.	17.3	7.7			10	w.		0	0	gloomy	
Belgaum	27.18	690.3	29.73	755.2	69.2	20.7	92	w.	13.0	5.8			9		sw.	0.23	5.8	showery	
Lahore	28.67	728.3	29.38	746.1	101.8	38.8	38	e.	6.2	2.8			0			0	0	hazy	
Roorkee	28.61	726.7	29.50	749.2	80.8	27.1	85	s.	1.1	0.5			8			0	0		
Agra	28.92	734.6	29.47	748.6	87.7	30.9	71	ne.	3.5	1.6			6		e.	0	0	d. clouds	
Nagpur	28.48	723.5	29.60	751.9	86.2	30.1	70	calm	3.5	1.6			8		nw.	0	0	d. clouds	
Jubbulpore	28.21	716.4	29.55	750.5	80.8	27.1	83	e.	2.3	1.0			10			0	0	overcast	
Lucknow	29.15	740.3	29.52	749.7	87.1	30.6	71	e.	2.3	1.0			5			0.12	3.0	d. clouds	
Allahabad	29.20	741.6	29.51	749.5	83.7	28.7	83	ne.	2.7	1.2			9			1.76	44.7	d. clouds	
Patna	29.41	747.0	29.59	751.7	79.3	26.3	94	ese.	5.6	2.5			10	ese.	ese.	1.23	31.2	overcast	
Hazaribagh	27.58	700.5	29.55	750.6	83.6	28.7	71	e.	8.7	3.9			9	w.	e.	0	0		
Cuttack	29.44	747.8	29.52	749.8	83.6	28.7	81	nne.	1.1	0.5			10			0	0	overcast	
Calcutta, Alipore	29.53	750.2	29.56	750.7	83.7	28.7	82	se.	11.0	4.9			10	se.		0	0	ov..rcast	
Dhubri	29.52	749.7	29.63	752.7	80.8	27.1	89	calm	6.7	3.0			9	ne.		0.02	0.5	d. clouds	
Chittagong	29.54	750.3	29.63	752.5	83.9	28.8	79	se.	3.0	1.3			9			0	0	d. clouds	
Sibsagar	29.31	744.4	29.64	752.8	84.2	29.0	80	ne.	2.0	0.9			10	sw.	sw.	0	0	d. clouds	
Jeypore	28.06	712.7	29.45	748.0	94.1	34.5	55	ene.	2.1	0.9			2		ene.	0	0	d. clouds	
Zanzibar, Africa	30.10	764.5			83.6	28.7	54	s.	7.5	3.4			2			0	0	d. clouds	
Italian.																			
Udine	29.65	753.2	30.05	763.3	61.9	16.6	80	e.	2.5	1.1			10			0.449	11.4		Prof. Giovanni Cloelig.
Milan	29.49	749.0	29.98	761.6	75.4	24.1	51	e.	4.3	1.9			3	ne.		0.819	20.8		Prof. Schiaparelli.
Padua	29.91	759.8	30.02	762.5	68.7	20.4	55	ne.	13.0	5.8			10	ne.		0.496	12.6		Prof. Dott. Lorenzoni.
Moncalieri	29.08	738.6	29.95	760.7	75.2	24.0	46	ese.	4.3	1.9			4			0	0		Prof. P. F. Denza.
Genoa	29.76	755.9	29.95	760.6	76.1	24.5	46	n.	3.1	1.4			0			0.039	1.0		Prof. G. M. Garibaldi.
Mondovi	28.09	713.5	29.94	760.4	68.2	20.1	44	nw.			4		0			1.701	43.2		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.92	760.0	29.97	761.2	66.0	18.9	87	ne.	5.6	2.5			10	ne.		0.280	7.1		Prof. Luigi Guidi.
Florence	29.69	754.2	29.94	760.4	71.2	21.8	60	ne.			4		10			0.709	18.0		Prof. Costantino Pitter
Leghorn	29.78	756.3	29.86	758.4	77.9	25.5	55	w.	1.3	0.6			4			0	0		Prof. P. Monte.
Rome	29.78	756.3	29.95	760.6	78.8	26.0	50	sw.	4.9	2.2			4	ssw.		0	0		Prof. P. S. Ferrari.
Lecce	29.69	754.0	29.93	760.1	84.2	29.0	33	ese.	7.4	3.3			2	nw.		0	0		Prof. C. de Giorgi.
Cosenza	29.08	738.7	29.93	760.2	79.5	26.4	72	sse.	3.1	1.4			1	se.		0	0		Prof. D. Conti.
Cagliari	29.76	755.8	29.95	760.6	79.2	26.2	59	s.			4		6			0	0		Prof. A. Pacinotti.
Palermo	29.73	755.2	29.97	761.2	82.9	28.3	31	nw.	11.9	5.3			2			0	0		Prof. G. Ciaccia[illegible]e.
Syracuse	29.87	758.7	29.91	759.8	82.2	27.9	65	s.	11.2	5.0			5	sw.		0	0		Prof. Vincenzo Gulliano
Sub-series.																			
Naples, S. R	29.44	747.7	29.92	759.9	75.6	24.2	72	sw.	1.8	0.8			4	sw.		0.626	15.9		Prof. T. Brioschi.
Stelvio	22.24	565.0			42.6	5.9	49	ne.			2		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.29	566.1			45.7	7.6	74	e.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.80	756.9	29.81	757.2	59.0	15.0	87	nw.	4.2	1.9			1			0	0	clear	
Hiroshima, I. M. Obs'y					71.4	21.9	85	wsw.	0.3	0.1		0	1 cks			0.017	0.4	clear	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.56	750.8	29.73	755.1	69.3	20.7	86	nnw.	4.1	1.8		3 ck	4 ck;s			0.040	1.0	fair	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.56	750.9	29.76	755.9	70.8	21.6	93	e.	7.2	3.2			10 n			1.320	33.5	light rain	S. Takehayashi.
Nemuro	29.73	755.1	29.79	756.6	52.5	11.4	100	nne.	12.0	5.4		10	0			0	0	cloudy	
Niigata	29.74	755.4	29.77	756.1	68.7	20.4	83	nnw.	2.4	1.1			10ck;s			0	0	covered	M. Morita.
Nobiru	29.78	756.4	29.80	756.8	66.4	19.1	83	se.	9.2	4.1			10 s			0.135	3.4	covered	H. Midzushina.
Osaka	29.73	755.1	29.74	755.4	70.6	21.4	85	w.	1.3	0.6		0	8 s			0.012	0.3	cloudy	
Supporo					58.5	14.7	96	n.	1.8	0.8			6			0	0	cloudy	
Tokei Obs'y, Yeddo	29.70	754.4	29.77	756.1	71.7	22.1	89	e.	7.3	3.2			10 n		se.			raining	The Staff.
Wakayama	29.69	754.1	29.74	755.4	69.0	20.6	91	calm	0	0		0	7		w.	0.273	6.9	fair	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	30.04	763.0	30.23	767.8	72.7	22.6	73	ese.	18.5	8.3		1 k	4 k;ks		ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.78	604.1	30.01	762.1	57.7	14.3	94	ne				0	1 kn		e.	0	0	clear	Prof. Vicente Fernandez.
Leon	24.38	619.2	30.03	762.7	60.1	15.6	85	nnw.			1	5 c	0	se.		0.005	0.1	½ cloudy	Prof. M. Leal.
Mazatlan	29.74	755.5	30.00	762.0	75.5	24.2	88	n.	0.9	0.4		4 cs	1 k	e.		0.276	7.0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.19	589.0	30.27	768.8	50.7	10.4	77	nw.	0.2	0.1		7 cs	1 k			0	0	cloudy	The Staff.
Morelia	24.27	616.5	30.34	770.6	60.1	15.6	50	ne.			2	2	4	s.	se.	inap.	inap.	½ cloudy	M. Tena, M. D.
Orizaba	26.21	665.7	30.19	766.8	61.7	16.5	87	calm	0	0		0	0			0	0	fine	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.05	610.8	30.04	763.0	59.5?	14.3?	80	calm				2 cs	0			0.040	1.1	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.51	597.1	30.30?	761.2?	49.3	9.6	90					0	5		ene.	0.099	2.5	½ cloudy	Prof. P. Spina.
San Luis Potosi	24.32	617.7	30.19	766.7	67.3	19.6	64	e.	8.4	3.7		0	8		e.	0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.66	575.7	30.29	769.3	54.5?	10.8?	94	e.	0.9	0.4		2 s	0	e.		0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.14	765.6	30.14	765.6	67.8	19.9		w.			3					0.008	0.2		
Groningen	30.04	763.1	30.10	764.5	68.0	20.0		nw.			2					0	0		
Helder	30.10	764.4	30.10	764.4	64.4	18.0		sw.			2					0	0		
Hellevoetsluis	30.12	765.1	30.12	765.1	73.6	23.1	59	wsw.			2					0	0		
Utrecht	30.08	764.1	30.13	765.3	72.3	22.4	50	w.			2		5			0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.74	755.3	29.80	756.9	57.9	14.4	83	w.	7	3			10			0.953	24.2	raining	
Brono	29.72	754.9	29.76	755.9	55.0	12.8	78	ene.	4	2			10			0	0		
Christiania	29.60	751.8	29.74	755.3	74.1	23.4	38	s.	18	8			7			0	0		
Gjesvær	29.89	759.3	29.92	759.9	42.8	6.0		w.			4		10					foggy	
Lodingen	29.74	755.4	29.79	756.6	53.4	11.9	65	calm			0		9			0	0		
PORTUGUESE.																			
Angra, Azores					72.1	22.3	84	ssw.	6.9	3.1			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.01	736.8	29.95	760.6	90.0	32.2	28	wnw.	3.1	1.4			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.14	765.6	30.23	767.8	71.1	21.7	76	sw.	6.9	3.1			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.69	754.1	30.04	762.9	77.9	25.5	56	s.	7.4	3.3			0			0	0		The Staff.
Ponta Delgada, Azores	30.37	771.3	30.43	773.0	78.8	26.0	55	calm	0	0			5			0	0		
Saint Paul de Loando	29.91	759.8	30.12	765.0	67.6	19.8	79	ese.	0.7	0.3			10			0	0		
Serra da Estrella	25.40	645.1	29.93	760.1	70.2	21.2	31	se.	9.8	4.4			1			0	0		
RUSSIAN.																			
Akmolinski	28.46	722.8	29.48	748.8	71.2	21.8	35	ssw.	2	1			9 kn			0	0		Major K. Lasarew.
Archangel	29.69	754.0	29.71	754.5	52.3	11.3	58	wnw.	13	6		0	8 ks			0	0		Capt. Sselliwerstow.
Astrakhan	29.88	758.9	29.80	756.8	84.4	29.1	46	e.	4	2		0	2 s			0	0		Capt. Wisganow.
Barnaul	29.28	743.8	29.76	756.0	66.7	19.3	46	ne.	2	1			8			0	0	light clouds	Meteorological Obs y.
Dorpat	29.65	753.1	29.88	759.0	70.9	21.6	43	ssw.	4	2		0	0			0	0		Observatory.
Ekaterinburg	28.55	725.2	29.48	748.7	61.9	16.6	62	wsw.	18	8		0	7 n			0.031	0.8		Meteorological Obs'y.
Irkutsk	28.22	716.8	29.76	755.9	80.1	26.7	61	calm	0	0		6 cs	0			0	0		
Kasan	29.46	748.2	29.72	754.8	64.0	17.8	52	wnw.	9	4			10			blank	blank		Observatory.
Kertch	29.68	753.9	29.70	754.4	79.3	26.3	73	sse.	9	4		5 ck	0			0	0		Lagorio & Sastyrez.
Kieff	28.90	735.5	29.58	751.2	59.0	15.0	100	nne.	2	1			10ks;n			1.413	35.9	raining	Observatory.
Lugan	29.54	750.3	29.74	755.3	76.5	24.7	60	ene.	13	6			8			2.500	63.5		Meteorological Obs'y
Moscow	29.27	743.5	29.72	754.9	71.1	21.7	42	sw.	4	2			1 k						Meteorological Obs'y.
Nikolajev	29.65	753.2	29.72	755.0	79.3	26.3	65	ssw.	18	8		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.56	750.8	29.70	754.4	76.5	24.7	60	se.	4	2		0	5 ks			0	0		Physical Observatory
St. Petersburg	29.80	756.9	29.82	757.3	65.1	18.4	38	nw.	16	7		ck	1 k			0.008	0.2		Central Physical Obs'y
Semipalatinsk	29.02	737.2	29.63	752.6	83.8	28.8	49	calm	0	0			2			0	0		Major Lasarew.
Tashkend, Laboratory	28.16	715.3	29.61	752.1	89.6	32.0	45	calm	0	0			1			0	0		Teich, A. M.
Tiflis	28.37	720.5	29.67	753.7	95.0	35.0	34	s.	7	3		0	4 k			0	0		Physical Observatory
Vladivostock	29.84	758.0			60.1	15.6	90	se.	4	2		0	4 k						
Warsaw	29.54	750.2	29.95	760.6	68.5	20.3	43	n.	9	4			10 ks						Astronomical Obs'y
Wilna	29.49	749.0	29.89	759.2	70.7	21.5	47	nne.	4	2			5			0	0		Berg, Assistant.
Yeniseisk	29.49	749.0	29.76	756.0	63.7	17.6	82	w.	4	2			1			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.93	760.2	30.03	762.8	80.1	26.7	47	sw.	5.1	2.3			1 k						Antonio Rave, Director.
Bilbao, Met. Obs'y	30.13	765.4	30.19	766.9	73.8	23.2	60	n.	1.8	0.8		2	7	nw.		0	0	almost cov	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.21	691.0	30.11	764.7	68.0	20.0	49	ne.	8.7	3.9			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.5	29.95	760.7	85.3	29.6	29	ne.	3.6	1.6		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director
Santiago, Met. Obs'y	29.16	740.7	30.03	762.7	74.7	23.7	54	ne.	13.6	6.1			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.																			Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.4	29.88	758.9	82.9	28.3	84	se.	4.4	2.0		0	2 ks		e.	0.319	8.1	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.01	762.2	30.11	764.7	72.5	22.5	65	calm	0	0			10		sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.00	761.9	30.09	764.2	76.3	24.6	95	se.	19.0	8.5			10 kn		se.	0.669	17.0	raining	Manuel Maese.
Tuguegarao, Philippine Id's	29.78	756.4	29.91	759.7	78.8	26.0	80	nnw.	5.6	2.5		0	7 kn		ese.	0.38	9.7	cloudy	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.78	756.3	29.82	757.3	58.3	14.6	53	n.			2		8			0	0		
Umea	29.71	754.7	29.76	756.0	64.9	18.3	58	s.			4		5			0	0		
Hernosand	29.67	753.7	29.72	755.0	69.4	20.8	49	ese.			2		2			0	0		
Stockholm	29.66	753.4	29.84	757.9	78.6	25.9	31	w.			2		1			0	0		
Wisby	29.85	758.2	29.91	759.7	67.6	19.8	61	w.			2		0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Sub-series.																			
Unsala	29.70	754.4	29.79	756.6	77.4	25.2	30	sw.	16.1	7.2			3		w.	0.323	8.2		S. G. Fineman.
Swiss.																			
Geneva	28.69	728.6	30.07	763.8	68.2	20.1	46	n.			4					0	0	clouds	The Observatory
Scottish.																			
Monach Lt			29.68	753.9	60	15.6	94	sw.			6		10			0.2	5.	overcast	J. Youngclause.
North Unst			29.71	754.6				se.			3		10			blank	blank		
Turkish.																			
Constantinople			29.87	758.6	81.7	27.6	45	ene.	9	4.0			0			0	0		The Observatory.
Valona			30.09	764.2	81.1	27.3		sw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.79	756.7	80.8	27.1	61	wsw.			3	0	1 s		sw.	0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.84	757.9	29.92	760.0	65	18.3	68	w.	2	0.9		0	0			0.04	1.0	clear	J. O. Barnes.
Alpena, Michigan	29.34	745.2	29.98	761.5	51	10.6	80	nw.	5	2.2		4 ck	2 s	nw.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.18	639.6	29.92	760.0	60	15.6	93	e.	2	0.9			10 s		calm	0.16	4.1	cloudy	W. C. Barnes.
Assiniaboine, Ft., Montana	27.33	694.2	30.06	763.5	61	16.1	72	sw.	4	1.8		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.84	732.5	29.99	761.7	70.5	21.4	94	nw.	7	3.1			10 s			0.13	3.3	cloudy	H. Hall.
Atlantic City, New Jersey	29.95	760.7	29.96	761.0	66.2	19.0	58	nw.	6	2.7		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.77	756.1	29.96	761.0	76.0	24.4	88	calm	0	0		4 k	fg.	w.		0.03	0.8	fair	John Healy.
Baltimore, Maryland	29.97	761.2	30.02	762.5	70	21.1	53	nw.	3	1.3		1 cs	0	w.		0	0	clear	Robert Seyboth.
Barnegat, New Jersey	29.94	760.5	29.96	761.0	66.6	19.2	60	nw.	12	5.4		2 cs	0			0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.43	722.1	29.97	761.2	70	21.1	84	nw.	8	3.6		0	1 k		nw.	0.04	1.0	clear	A. Pritchard.
Benton, Fort, Montana	27.36	694.9	30.07	763.8	63	17.2	58	sw.	4	1.8		0	0			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	29.98	761.5	30.00	762.0	45.5	7.5		sw.	4	1.8			fg			c.02	0.5	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.33	719.6	30.05	763.3	63	17.2	90	n.	5	2.2		9 k	0	n.		0.30	7.6	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.86	758.4	29.88	758.9	63.2	17.3	68	nw.	15	6.7		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.32	693.9	30.04	763.0	69	20.6	53	calm	0	0		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.68	753.9	29.83	757.7	60.0	15.6	65	w.	14	6.3		0	0			inap.	inap.	clear	O. B. Cole.
Brownsville, Texas	30.04	763.0	30.08	764.0	77.7	25.4	88	s.	5	2.2		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.19	741.4	29.92	760.0	61	16.1	56	w.	4	1.8		7ck;cs	0	w.		inap.	inap.	fair	Wm. Finn.
Buford, Fort, Dakota	28.23	717.0	30.17	766.3	57	13.9	77	n.	1	0.4		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.54	750.3	29.82	757.4	58.0	14.4	67	nw.	7	3.1		0	1 ks		nw.	0.47	11.9	clear	G. O. Schaeffer.
Cairo, Illinois	29.60	751.8	29.99	761.7	74.8	23.8	77	s.	3	1.3		3 c	1 s			0	0	fair	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.22	691.4	29.81	757.2	73	22.8	59	e.			1	3 cs	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.99	761.7	30.01	762.2	72	22.2	66	ne.	8	3.6		3 cs	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.95	760.7	29.98	761.5	67.0	19.4	55	nw.	19	8.5		0	0			0	0	clear	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.04	763.0	30.06	763.5	82	27.8	80	sw.	10	4.5		3 ck	7 ks		w.	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	29.19	741.4	29.98	761.5	63.8	17.7	78	ne.	2	0.9			10 n		ne.	inap.	inap.	light rain	L. A. Welsh.
Charleston, S. Carolina	29.90	759.4	29.95	760.7	79	26.1	88	w.	7	3.1		0	3 s		w.	0.10	2.5	clear	J. H. Smith.
Charlotte, N. Carolina	29.09	738.9	29.92	760.0	73.0	22.8	64	ne.	8	3.6		10 cs	hz.	ne.		0.02	0.5	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.19	741.4	29.99	761.7	73.5	23.1	92	sw.	3	1.3		1 cs	fg.			0.28	7.1	clear	B. L. Goulding.
Cheyenne, Wyoming	24.31	617.5	30.00	762.0	62.2	16.8	65	nw.	7	3.1		0	7 s		nw.	0	0	fair	E. McGovern.
Chicago, Illinois	29.23	742.4	29.92	760.0	62.3	16.8	86	ne.	3	1.3			10 k		se.	0.34	8.6	cloudy	J. Mitchell.
Chincoteague, Virginia	29.97	761.2	29.99	761.7	67	19.4	54	n.	16	7.2		0	0			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.33	745.0	29.97	761.2	67	19.4	78	e.	2	0.9		3 ck	0	n.		0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.25	742.9	29.97	761.2	62	16.7	65	sw.	6	2.7			10 s			0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.28	718.3	30.04	763.0	76	24.4	82	sw.	6	2.7		6 cs	0			0	0	fair	L. Dorman.
Columbus, Ohio	29.15	740.4	29.98	761.5	63	17.2	78	ne.	2	0.9		6 k	3 s	w.		0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.15	715.0	30.03	762.7	76	24.4	79	s.	4	1.8		0	0			0	0	clear	W. W. McConihe.
Custer, Fort, Montana	27.02	686.3	30.04	763.0	65	18.3	65	e.	2	0.9		0	0			0	0	clear	V. Verge.
Davenport, Iowa	29.22	741.9	29.85	758.2	65	18.3	90	sw.	17	7.6		2 k	7 s	sw.	sw.	0.43	10.9	cloudy	R. R. Martin.
Davis, Fort, Texas	25.26	641.6	29.90	759.4	74	23.3	71	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.36	720.3	30.07	763.8	61.0	16.1	54	se.	4	1.8		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.61	650.5	30.03	762.7	59.0	15.0	84	calm	0	0		3 k	0	nw.		0	0	clear	G. W. Scott.
Decatur, Texas					82	27.8	53	s.	7	3.1		7 ck	0	s.		0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	29.98	761.5	30.00	762.0	65	18.3	73	nw.	14	6.3		1 c	0	nw.		0	0	clear	A. Schneider.
Denison, Texas	29.19	741.4	29.97	761.2	82.3	27.9	72	sw.	10	4.5		10 cs	0			0	0	cloudy	J. McGlone.
Denver, Colorado	24.99	634.7	30.00	762.0	63.0	17.2	65	s.	4	1.8		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.99	736.3	29.87	758.7	68	20.0	84	sw.	6	2.7		5 cs	0	w.		0.75	19.0	fair	F. W. Conrad.
Detroit, Michigan	29.26	743.2	29.95	760.7	62.8	17.1	87	w.	6	2.7			10 s		w.	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.41	696.2	29.91	759.7	73.0	22.8	76	s.	7	3.1		2 cs	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.15	740.4	29.84	757.9	65.8	18.8	81	s.	5	2.2			10 s		s.	0.16	4.1	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.26	743.2	29.98	761.5	52	11.1	93	ne.	16	7.2			10 n		ne.	0.32	8.1	light rain	N. B. Conger.
Eagle Pass, Texas	29.28	743.7	30.07	763.8	81.0	27.2	69	se.	9	4.0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.47	646.9	30.02	762.5	55	12.8	49	calm	0	0		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.61	752.1	29.67	753.6	50.0	10.0	72	w.	10	4.5			10 s		nw.	0.23	5.8	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.27	692.6	29.91	759.7	71	21.7	59	s.	8	3.6		5 k	0	s.		0	0	fair	W. J. Cundall.
El Paso, Texas	26.35	669.3	29.95	760.7	73	22.8	59	ne.	1	0.4		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.23	742.4	29.94	760.5	62	16.7	78	w.	3	1.3		10 cs	0	w.		0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.33	745.0	29.97	761.2	56	13.3	74	ne.	5	2.2			10 s			0.10	2.5	cloudy	C. Dill.
Fredericksburg, Texas	28.30	720.3	30.06	763.5	75	23.9	85	sw.	8	3.6		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	30.05	763.3	30.10	764.5	82.5	28.1	81	sw.	12	5.4		0	5 k		s.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.31	744.5	29.96	761.0	61.0	16.1	67	w.	3	1.3			10 s			0	0	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.38	644.6	29.95	760.7	66.9	19.4	42	ne.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.96	761.0	29.98	761.5	73.0	22.8	71	ne.	16	7.2			10 k		ne.	0	0	cloudy	R. M. Crawford.
Helena, Montana	26.02	660.9	30.08	764.0	70	21.1	37	sw.	2	0.9		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.03	737.3	30.01	762.2	85.0	29.4	57	s.	4	1.8		0	6 s			0	0	fair	J. W. Byram.
Huron, Dakota	28.59	726.2	29.91	759.7	69.1	20.6	90	n.	8	3.6		6 k	0	n.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.20	741.7	29.97	761.2	63.5	17.5	79	n.	4	1.8		2 c	5 s	w.	nw.	0	0	fair	O. Schutze
Indianola, Texas	30.07	763.8	30.10	764.5	80.0	26.7	88	sw.	16	7.2		2 cs	0	calm		0	0	clear	I. A. Reed.
Jacksboro, Texas	28.84	732.5	29.96	761.0	83	28.3	63	sw.	12	5.4		0	4 s		sw.	0	0	fair	J. P. Sherry.
Jacksonville, Florida	29.98	761.5	30.02	762.5	81	27.2	82	sw.	6	2.7		2 cs	7 s		sw.	0.36	9.1	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.65	702.3	30.06	763.5	65	18.3	78	ne.	2	0.9		0	0			0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.24	742.7	29.87	758.7	66.0	18.9	87	se.	18	8.0			10 n		nw.	0.56	14.2	thnd'er st'rm	F. Z. Gosewisch
Key West, Florida	30.08	764.0	30.10	764.5	85.0	29.4	72	calm	0	0		0	6 k		se.	0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.01	762.2	30.03	762.7	72.0	22.2	71	e.	10	4.5		0	4 k		nw.	0	0	fair	E. A. Beals.
Knoxville, Tennessee	28.98	736.1	29.98	761.5	70	21.1	92	w.	1	0.4		0	5 k		w.	0.44	11.2	fair	J. A. Cody.
La Crosse, Wisconsin	29.08	738.6	29.82	757.4	66	18.9	73	se.	6	2.7			10 s			0.36	9.1	cloudy	S. C. Emery
La Mesilla, New Mexico	26.21	665.7	29.95	760.7	70.0	21.1	61	calm	0	0		4 k	1 s	ne.		0	0	fair	N. D. Lane.
Leavenworth, Kansas	29.04	737.6	29.90	759.4	77	25.0	82	s.	3	1.3		3 cs	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.28	743.7	30.09	764.3	71.5	21.9	50	calm	0	0		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.70	754.4	30.01	762.2	75	23.9	97	nw.	3	1.3			10 n			0.53	13.5	light rain	W. U. Simons.
Los Angeles, California	29.71	754.6	30.10	764.5	61.2	16.2	72	sw.	1	0.4		5 ck	0	s.		0	0	fair	E. F. Kubel.
Louisville, Kentucky	29.39	746.5	29.94	760.5	69	20.6	76	se.	4	1.8		3 cs	sk.			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.33	745.0	30.00	762.0	66.5	19.2	73	ne.	1	0.4		0	9 ks		ne.	0	0	cloudy	W. R. Bushby.
Macon, Fort, North Carolina	29.95	760.7	29.96	761.0	76	24.4	82	ne.	16	7.2		10 k	0	ne.		0	0	cloudy	F. P. Chaffee.
Madison, Wisconsin	28.91	734.3	29.89	759.2	62	16.7	93	se.	9	4.0			10 s		se.	0.54	13.7	cloudy	C. A. Shaw.
Maginnis, Fort, Montana																			H. W. Dodge.
McKavett, Fort, Texas	27.86	707.6	30.06	763.5	75	23.9	88	s.	7	3.1		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.29	744.0	30.00	762.0	55	12.8	80	n.	3	1.3			10 s		nw.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.66	753.4	29.99	761.7	70	24.4	82	sw.	1	0.4		5 cs	1 s	nw.	sw.	0.44	11.2	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.22	742.2	29.95	760.7	61	16.1	84	s.	3	1.3			10 s		s.	0.06	1.5	cloudy	W. Line.

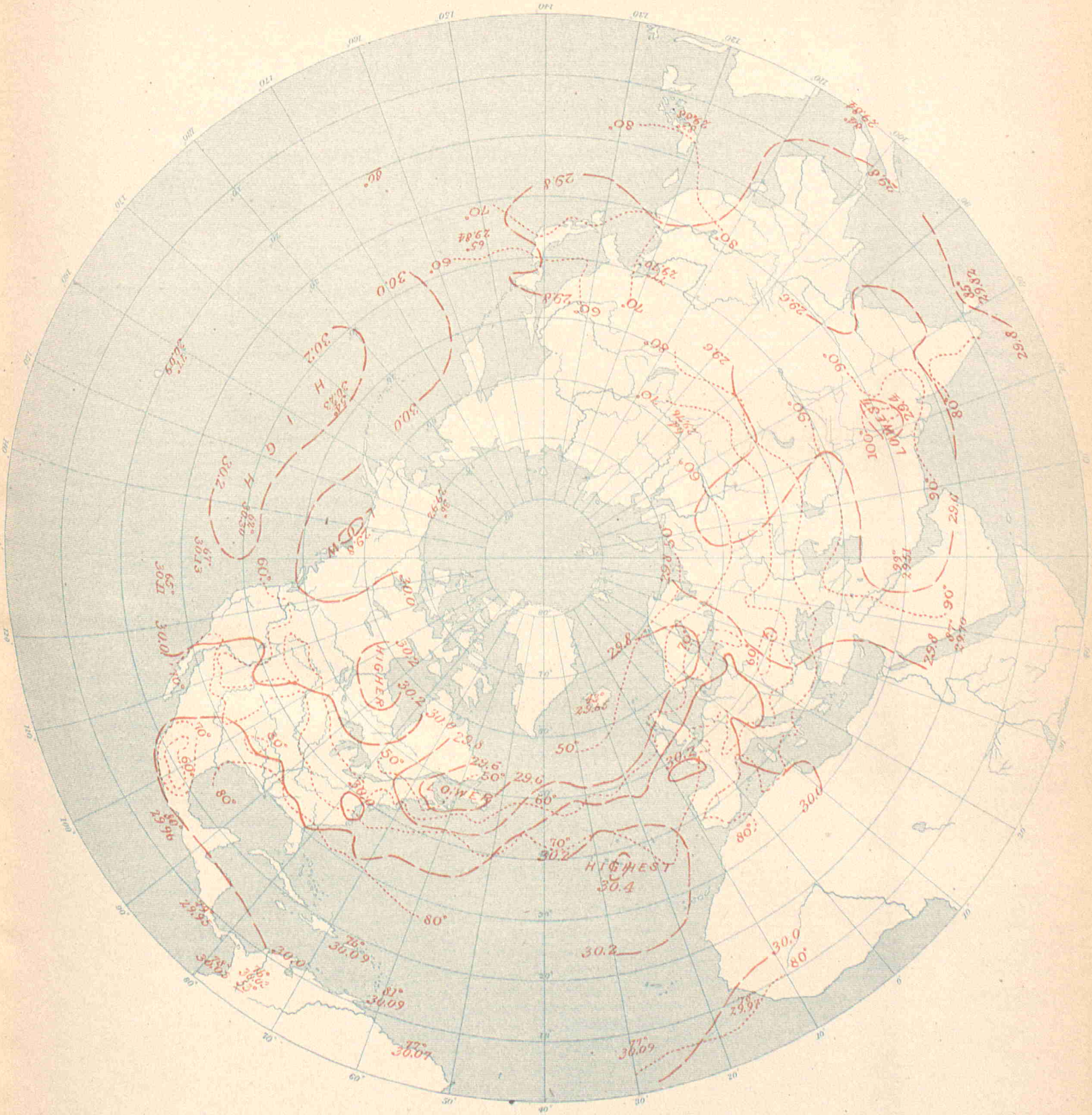
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.95	684.5	30.14	765.5	58	14.4	65	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.01	762.2	30.05	763.3	81.5	27.5	79	w.	6	2.7	.....	9 cs	0	.....	.....	0	0	cloudy	C. A. Read.
Montgomery, Alabama	29.79	756.7	30.01	762.2	77.6	25.3	78	nw.	4	1.8	.....	5 c	0	w.	.....	0.05	1.3	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.98	736.1	29.94	760.5	59	15.0	87	n.	12	5.4	.....	.....	10 s	.....	n.	0.14	3.6	cloudy	H. Bessant.
Morgantown, W. Virginia	29.00	736.6	30.00	762.0	67.0	19.4	71	calm	0	0	.....	2 cs	0	.....	.....	0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.47	596.1	29.54	750.3	32.0	0.0	96	nw.	68	30.4	.....	.....	10n;fg	.....	nw.	2.56	65.0	light rain	J. G. Linsley.
Nashville, Tennessee	29.44	747.8	29.96	761.0	75.0	23.9	76	calm	0	0	.....	3 cs	0	w.	.....	inap.	inap.	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.80	756.9	29.91	759.7	60	15.6	60	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	29.85	758.2	29.90	759.4	67	19.4	55	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.07	763.8	82.5	28.1	76	sw.	6	2.7	.....	9 c	sk.	sw.	.....	0	0	cloudy	L. Dunne.
Newport, Rhode Island	29.84	757.9	29.90	759.4	63.8	17.7	58	w.	15	6.7	.....	0	0	.....	.....	0	0	clear	W. McGillivray.
New York, New York	29.78	756.4	29.95	760.7	62.5	16.9	61	w.	7	3.1	.....	1 cs	0	sw.	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	29.97	761.2	30.00	762.0	75	23.9	64	ne.	4	1.8	.....	1 cs	0	.....	.....	0	0	clear	H. L. Kemp.
North Platte, Nebraska	27.14	689.3	29.94	760.5	72.1	22.3	84	n.	3	1.3	.....	0	2 s	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.08	764.0	30.12	765.0	50.0	10.0	86	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Ogglaamie, Pt. Barrow, Alas.	29.90	759.4	29.92	760.0	36.0	2.2	99	ese.	5	2.2	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	P. H. Ray.
Omaha, Nebraska	28.74	730.0	29.87	758.7	79.3	26.3	54	nw.	8	3.6	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Oswego, New York	29.59	751.6	29.91	759.7	58.0	14.4	84	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.54	750.3	30.08	764.0	78.0	25.6	85	sw.	10	4.5	.....	7 cs	0	sw.	.....	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.00	762.0	30.03	762.7	82.1	27.8	82	w.	6	2.7	.....	4 cs	3 s	w.	w.	inap.	inap.	fair	M. McGauran.
Philadelphia, Pa.	29.89	759.2	29.99	761.7	67	19.4	51	nw.	7	3.1	.....	2 ck	0	sw.	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.11	460.0	29.89	759.2	39	3.9	65	ne.	18	8.0	.....	1 c	0	.....	.....	0.46	11.7	clear	L. M. Dey.
Pioche, Nevada	24.26	616.2	29.99	761.7	68.0	20.0	42	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.19	741.4	29.98	761.5	61.3	16.3	84	calm	0	0	.....	6 ck	0	w.	.....	0	0	fair	J. H. Bryce.
Poplar River, Montana	28.07	713.0	.....	.....	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.10	764.5	30.11	764.8	82.0	27.8	88	w.	16	7.2	.....	0	0	.....	.....	0	0	clear	M. Hermann.
Port Huron, Michigan	29.26	743.2	29.92	760.0	60.0	15.6	66	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	W. O. Bailey.
Portland, Maine	29.70	754.4	29.75	755.6	59.5	15.3	67	w.	6	2.7	.....	0	0	.....	.....	0.11	2.8	clear	W. W. Eichelberger.
Portland, Oregon	30.03	762.7	30.10	764.5	58.0	14.4	81	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.96	634.0	29.95	760.7	56	13.3	83	e.	2	0.9	.....	0	0	.....	.....	0.08	2.0	clear	J. McN. Wright.
Provincetown, Mass.	29.81	757.2	29.84	757.9	62.0	16.7	67	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.08	764.0	30.09	764.3	85	29.4	65	w.	7	3.1	.....	3 c	1 k	ne.	w.	0	0	fair	W. J. Evans.
Red Bluff, California	29.66	753.4	30.02	762.5	77.8	25.4	50	n.	3	1.3	.....	0	9 s	.....	s.	0	0	cloudy	J. M. Frantz.
Rio Grande City, Texas	29.88	758.9	30.11	764.8	79	26.1	77	se.	9	4.0	.....	0	0	.....	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.27	743.4	29.92	760.0	56	13.3	74	w.	10	4.5	.....	2 k	hz.	w.	.....	0	0	clear	E. W. McGann.
Roseburg, Oregon	29.52	749.8	30.06	763.5	61.5	16.4	81	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.95	760.7	30.02	762.5	64.9	18.3	73	se.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	J. A. Barwick.
St. Louis, Missouri	29.34	745.2	29.92	760.0	70.1	21.2	78	s.	8	3.6	.....	2 c	8 s	.....	w.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	28.99	736.3	29.83	757.7	64	17.8	90	e.	5	2.2	.....	.....	10 s	.....	se.	0.48	12.2	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.22	742.2	30.06	763.5	55	12.8	100	n.	7	3.1	.....	.....	10 n	.....	.....	0.20	5.1	light rain	G. Kingsbury.
Salt Lake City, Utah	25.81	655.6	29.99	761.7	72	22.2	44	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.40	746.7	30.08	764.0	77.0	25.0	85	calm	0	0	.....	0	4 k	.....	se.	0.04	1.0	fair	T. J. Kenan.
San Diego, California	29.97	761.2	30.04	763.0	62.6	17.0	95	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.27	743.4	29.93	760.2	63.7	17.6	73	sw.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.93	760.2	29.99	761.0	64.0	17.8	68	nw.	15	6.7	.....	1 cs	0	nw.	.....	0	0	clear	B. A. Blundon.
San Francisco, California	30.05	763.3	30.12	765.0	55	12.8	96	sw.	7	3.1	.....	.....	fg.	.....	.....	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.47	596.1	29.97	761.2	62	16.7	60	ne.	7	3.1	.....	7 c	0	w.	.....	0	0	fair	H. U. Jones.
Savannah, Georgia	29.88	758.9	29.97	761.2	82.3	27.9	74	sw.	5	2.2	.....	3 c	2 k	w.	sw.	0.12	3.0	fair	H. W. Ford.
Shaw, Fort, Montana	26.56	674.6	30.07	763.8	55	12.8	57	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.81	757.2	30.04	763.0	79	26.1	82	sw.	6	2.7	.....	7 ck	2 s	sw.	.....	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.76	730.5	29.96	761.0	78.3	25.7	71	s.	9	4.0	.....	.....	10 ks	.....	w.	inap.	inap.	cloudy	T. Cleary.
Silver City, New Mexico	24.42	620.3	29.88	758.9	60	15.6	30	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.73	755.1	29.79	756.7	56.1	13.4	69	se.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.51	749.5	29.97	761.2	77.0	25.0	90	e.	3	1.3	.....	.....	10 n	.....	e.	0.10	2.5	light rain	J. B. Campbell.
Smithville, North Carolina	29.91	759.7	29.94	760.5	76	24.4	90	n	4	1.8	.....	7 ck	0	w.	.....	0.85	21.6	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.12	714.2	30.10	764.5	56	13.3	74	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.35	745.5	30.01	762.2	65	18.3	84	calm	0	0	.....	.....	10 n	.....	n.	0.10	2.5	thnd'r storm	T. B. Jennings.
Springfield, Massachusetts	29.70	755.9	29.89	759.2	67.2	19.6	68	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo.	28.58	725.9	29.97	761.2	77	25.0	82	s.	11	4.9	.....	1 c	9 ks	.....	s.	inap.	inap.	cloudy	J. B. Marbury.
Starkville, Miss.	29.52	749.8	29.99	761.7	79	26.1	82	sw.	10	4.5	.....	6 ck	2 s	.....	.....	0.45	11.4	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.30	718.8	30.08	764.0	63	17.2	90	nw.	8	3.6	.....	0	2 ks	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.07	687.6	30.01	762.2	69.7	20.9	78	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.78	756.4	29.83	757.7	60.5	15.8	71	nw.	18	8.0	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.27	743.4	29.94	760.5	64	17.8	68	w.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	A. Buell.
Tucson, Arizona	27.62	701.5	29.94	760.5	77	25.0	62	calm	0	0	.....	1 c	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.70	754.4	30.06	763.5	66	18.9	40	se.	4	1.8	.....	1 c	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.11	739.4	30.05	763.3	77	25.0	85	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	70.1	21.2	62	se.	.....	.....	1	3 cs	2 s	s.	se.	0	0	fair	D. Brooks.
Vicksburg, Mississippi	29.80	756.9	30.04	763.0	83	28.3	80	sw.	8	3.6	.....	4 c	2 k	.....	sw.	0	0	fair	H. P. Brisbane.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.76	628.9	30.09	764.3	55.1	12.8	69	w.	4	1.8	.....	5 ck;k	0	.....	.....	0.02	0.5	fair	T. M. Ambler.
Washington, D. C.	29.90	759.4	30.02	762.5	60.5	19.2	63	calm	0	0	.....	0	0	.....	.....	0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.19	665.2	29.95	760.7	69.4	20.8	61	sw.	2	0.9	.....	1 c	0	nw.	.....	0.01	0.3	clear	F. W. Brandenburg.
Williamsport, Pa.	29.39	746.5	29.97	761.2	58	14.4	72	nw.	2	0.9	.....	.....	10 ks	.....	nw.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.91	759.7	29.96	761.0	76	24.4	90	ne.	4	1.8	.....	.....	10 ks	.....	ne.	0.22	5.6	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.82	655.8	30.04	763.0	67	19.4	57	sw.	8	3.6	.....	0	3 s	.....	sw.	0	0	clear	J. Grover.
Yankton, Dakota	28.63	727.2	29.90	759.4	75	23.9	82	w.	8	3.6	.....	0	0	.....	.....	0.03	0.8	clear	J. H. Atfield.
Yuma, Arizona	29.75	755.6	29.89	759.2	85.8	29.9	49	se.	14	6.3	.....	.....	9 k	.....	se.	0	0	cloudy	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.08	560.8	.....	.....	53.0	11.7	79	ne.	1	0.4	.....	.....	8ks;s	nw.	.....	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.08	764.0	30.09	764.3	81	27.2	95	e.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	cloudy	J. A. Racker.
Buenaventura, U. S. C.	30.00	762.0	30.03	762.7	78	25.6	86	s.	10	4.5	.....	0	6 ks	.....	s.	0.10	2.5	cloudy	J. I. Plume.
Kingston, Jamaica, W. I.	30.08	764.0	30.09	764.3	79.5	26.4	83	calm	0	0	.....	3 cs	6 s	.....	e.	0	0	fair	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	72	22.2	.....	calm	.....	.....	0	1 ks	0	se.	.....	0	0	.....	S. M. Pike.
Navassa	.....	.....	.....	.....	81.5	27.5	76	ne.	3	1.3	.....	4 ck	3 s	e.	ne.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	29.97	761.2	30.05	763.3	77	25.0	86	e.	.....	.....	1	5 k	7 ps	e.	e.	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	30.07	763.8	30.07	763.8	75	24.4	84	calm	.....	.....	0	8 c	1 k	calm	calm	0.24	6.1	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	29.47	748.5	30.03	762.7	.....	.....	97	ne.	.....	.....	2	0	8 ks	.....	ne.	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.07	763.8	30.09	764.3	82	27.8	70	calm	0	0	.....	2 c	0	.....	.....	0	0	clear	Robert Mason.
York Factory, B. A.	30.27	768.8	30.33	770.4	64.0	17.8	78	n.	14	6.3	.....	0	2 s	.....	ne.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
British Naval.																		
H. M. S. Alert, S. 30° 33′, E. 12° 38′	30.33	770.4	63	17.2	64	wsw.			1-2		2							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.92	760.0	77.5	25.3	88	wnw.			3		0					3	wnw.	blue sky.
H. M. S. Amethyst, Montevideo, Uruguay	30.25	768.3	45	7.2	92	nnw.			2		5	sw.						d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.89	759.2	75	23.9		n.			3		3	nnw.						d. clouds.
H. M. S. Bacchante, N. 38° 50′, E. 8° 32′	30.04	763.0	76	24.4	86	wnw.			3		6	wnw.						misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.12	765.0	61	16.1		wnw.			2-4		4	w.						squally.
H. M. S. Champion, N 20° 35′ E. 164° 20′			80	26.7	100	e.			3		1					3	e.	blue sky.
H. M. S. Comus, N. 35° 30′, E. 141° 55′	29.73	755.1	71	21.7	75	ene.			2-3		4							d. clouds.
H. M. S. Diamond, S. 9° 37′, E. 157° 39′	29.85	758.2	82	27.8	91	se.			4-6		10					3	se.	showery.
H. M. S. Dido, N. 13′, 05° W. 59° 30′	30.08	764.0	77	25.0		ese.			2		5	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.06	763.5	77	25.0	95	ssw.			2-3		6	ssw.						d. clouds.
H. M. S. Dwarf, S. 32° 40′, W. 60° 38′	30.19	766.8	48.5	9.2	85	sse.			1		4					1	s.	d. clouds.
H. M. S. Eclipse, S. 7° 37′, E. 49° 25′	30.00	762.0	77	25.0		e.			4		4					4	ese.	d. clouds.
H. M. S. Emerald, S. 25° 30′ W. 19° 35′	30.20	767.1	71	21.7	100	nnw.			3-4		4	nnw.				2	nnw.	d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.72	754.9	85	29.4	68	sw.			4		7	sw.						d. clouds.
H. M. S. Espiegle, S. 17° 35′ E. 168° 16′	29.98	761.5	72	22.2	80	e.			1-4		3	nw.						d. clouds.
H. M. S. Fawn, S. 25° 59′, E. 32° 48′	30.12	765.0	73	22.8	78	ne.			2		0							blue sky.
H. M. S. Gannet, S. 19° 45′, W. 73° 15′	30.19	766.8	58	14.4	76	se.			4-5		10					3	se.	d. clouds.
H. M. S. Garnet, S. 24° 33′, W. 24° 20′	30.17	766 3	71	21.7	90	n.			6		10					5	nne.	showery.
H. M. S. Griffon, N. 50° 06′, W. 56° 08′	29.54	750.3	52	11.1	72	e.			2		10							
H. M. S. Iron Duke, N. 35° 56′, E. 141° 37′	29.68	753.9	72	22.2	85	e.			2		8	e.						d. clouds.
H. M. S. Kingfisher, N. 28° 20′ W. 115° 20′	30.01	762.2	63	17.2		nw.			1-2		2					1-2	nw.	d. clouds.
H. M. S. Lark, S. 10° 40′, E. 162° 22′	29.95	760.7	80.3	26.8	94	se.			4		8					2	se.	misty.
H. M. S. Liffey, Coquimbo, Chili	30.09	764.3	53.5	11.9		calm			0		5	n.						d. clouds.
H. M. S. Magpie, N. 35° c8 , E. 140° 31′	29.75	755.6	72.9	22.7	89	nne.			1		10					3	se.	raining.
H. M. S. Minotaur, Malta, Mediterranean	30.00	762.0	76	24.4	76	nw.			2		0					1	nw.	misty.
H. M. S. Nelson, S. 36° 50′, E. 174° 49	29.52	749.8	57	13.9	93	w.			1-2		7	e.						showery.
H. M. S. Northampton, Halifax, Nova Scotia	29.52	749.8	54	12.2	83	sw.			3		6	wsw.						d. clouds.
H. M. S. Pegasus, N. 1° 27′, E. 103° 47′	29.84	757.9	83.5	28.6	87	s.			1		5							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Island	30.15	765.8	67	19.4	94	ese.			2		8	ese.						showery.
H. M. S. Rocket, Vancouver Island, B. A	30.00	762.0	53	11.7	86	calm			0		2							d. clouds.
H. M. S. Sappho, S. 25° 05′, W. 130° 20′	30.10	764.5	67.5	19.7		calm			0		4	se.				5	s.	d. clouds.
H. M. S. Swiftsure, Rio de Janeiro, Brazil	30.08	764.0	74.5	23.6	95	wnw.			1		8	wsw.						showery.
H. M. S. Sylvia, Montevideo, Uruguay	30.30	769.6	39.7	4.3	89	n.			1		9							d. clouds.
H. M. S. Tenedos, N. 46° 08′ W. 60° 09′	29.51	749.5	54	12.2	89	s.			1-3		7							squally.
H. M. S. Triumph, Valparaiso, Chili	30.23	767.8	51	10.6	86	calm			0		2	nw.						d. clouds.
H. M. S. Woodlark, Bassorah, Asiatic, Turkey	29.41	747.0	98.5	36.9	43	nw.			3-4		0							squally.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.09	764.3	77.9	25.5	84	wsw.			2		0					1		blue sky.
Tamega, Macao, China	29.83	757.6	87.8	31.0	85	s.			2		3							d. clouds.
Swedish Naval.																		
Saga, N. 60° 04′, W. 4° 08′	29.71	754.5	56.7	13.7	90	ssw.			2		7							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.00	762.0	82	27.8	83	sw.	4	1.8			8		sw.	0	0			fair.
Navy Yard, Portsmouth, N. H	29.75	755.6	60	15.6	65	wnw.	18	8.0			3		nw.	0	0			clear.
Naval Hospital, Yokohama, Japan*	29.69	754.1	72	22.2	90	calm			0		10			sli't	sli't			light rain.
Adams, Mare Island, Cal	30.19	766.8	59	15.0	100	ssw.			3		8		sw.	0	0	sm'h		cloudy.
Alaska, Callao, Peru	30.03	762.7	59	15.0	94	e.			1		10			0	0	sm'h		cloudy.
Alert, N. 43° 46′, E. 179° 56′*	30.05	763.3	54	12.2	87	se.			3		10		e.	0	0	sm'h		cloudy.
Alliance, Boston, Mass*†	29.84	757.9	61	16.1	71	wnw.			2		0			0	0			clear.
Ashuelot, Yokohama, Japan*	29.67	753.6	74	23.3	86	calm			0		10		ssw.					rainy.
Brooklyn, Rio de Janeiro, Brazil	30.23	767.8	64	17.8	100	nw.	5	2.2			10		calm	0.08	2.0	sm'h		cloudy.
Colorado, New York, N. Y	29.94	760.5	64	17.8	73	wnw.	12	5.4			2		wnw.	0	0			fair.
Constellation, N. 37° 56′, W. 73° 14′*	29.97	761.2	69	20.6	80	wnw.			3		0					sm'h		clear.
Enterprise, Norfolk, Va*	29.97	761.2	73	22.8	81	n.			1		2		n.					clear.
Essex, Tamar Bay, Patagonia	29.53	750.0	44	6.7	92	nw.			3-4		10					sm'h		rainy.
Franklin, Norfolk, Va	30.02	762.5	72	22.2	76	se.	3	1.3			2		calm	0	0			fair.
Galena, Alexandria, Egypt	29.92	760.0	78	25.6	100	nw.			2-3		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	30.11	764.8	58	14.4	88	w.			4		8		w.	0.1	3.			cloudy.
Iroquois, San Francisco, Cal	29.94	760.5	58	14.4	82	sw.			3		8			0	0			misty.
Kearsarge, Norfolk, Va	30.00	762.0	72	22.2	90	ene.			2		5		nw.					fair.
Lackawanna, Callao, Peru*	30.05	763.3	60	15.6	82	ene.			1		10							cloudy.
Lancaster, Alexandria, Egypt*	29.90	759.4	80	26.7	91	nw.			3		0			0	0	mod.	nw.	clear.
Marion, S. 34° 54′, W. 56° 13′	30.20	767.1	42	5.6	100	nw.			1		8		nw.			sm'h		clear.
Michigan, Detroit, Mich	29.88	758.9	61	16.1	82	w.			2		10		w.					cloudy.
Minnesota, Newport, R. I	29.91	759.7	67	19.4	84	w.	7	3.1			0							clear.
Monocacy, N. 34° 08′, E. 125° 35′	29.81	757.2	69	20.6	95	wnw.			1		8		nw.			sm'h		fair.
New Hampshire, Newport, R. I	29.90	759.4	60	15.6	71	w.			3		0					sm'h		clear.
Nipsic, Corfu, Ionian Islands*	29.91	759.7	79	26.1	66	ene.			3		2					sm'h		clear.
Onward, Callao, Peru†	30.16	766.1	59	15.0	88	e.			2		10		n.			long	v	cloudy.
Palos, Kobe, Japan*	29.64	752.8	73	22.8	85	n.			1		10		calm					cloudy.
Passaic, Washington, D. C	30.04	763.0	68	20.0	84	calm			0		2?							cloudy?
Pensacola, S. 3° 19′ W. 81° 53′*	29.96	761.0	64	17.8	83	s.			4		10		s.	0	0	long	s.	cloudy.
Portsmouth, N. 42° 48′ W. 9° 57′*	30.08	764.0	62	16.7	88	ne.			5		2							clear.
Powhatan, N. 24° 46′, W. 80° 43′	30.12	765.0	85	29.4	76	ssw.			3		5		sw.			sm'h		fair.
Quinnebaug, Alexandria, Egypt	29.89	759.2	78	25.6	86	wnw.			3		0					sm'h		hazy.
Ranger, Mare Island, Cal*	30.14	765.5	60	15.6	88	wsw.			3		5		sw.	0	0			fair.
Richmond, Yokohama, Japan*	29.66	753.4	76	24.4	91						0?							raining.?
Saratoga, N. 42° 48′ W. 9° 54′	30.10	764.5	65	18.3	73	ne.			6		2		calm	0	0	mod.	ne.	fair.
St. Louis, League Island, Pa	30.21	767.3	66	18.9	54	nw.			2		0			0	0			clear.
Swatara, Yokohama, Japan*	29.60	751.8	75	23.9	81	sw.			1		8		calm			sm'h		light rain.
Tennessee, New York, N. Y	29.99	761.7	79	26.1	95	nw.	8	3.6			2			0	0			clear.
Vandalia, Portsmouth, N. H*	29.76	755.9	65	18.3	84	w.			2		0							clear.
Wabash, Boston, Mass	29.86	758.4	59	15.0	76	w.	6	2.7			0			0	0			clear.
Wachusetts, Highfield Harbor, Alaska	29.80	756.9	51	10.6	93	sse.			1		10		calm			sm'h		rainy.
Wyoming, Port Royal, S. C*	29.94	760.5	75	23.9	90	wsw.	6	2.7			8		w.	0.20	5.1			cloudy.
Yantic, off Hampden, Maine	29.73	755.1	55	12.8	80	wnw.			2		5							fair.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, Montreal, Canada*	29.81	757.2	65	18.3		wnw.			4		5?		wnw.	0	0			cloudy.?
S. S. Nova Scotian, N. 38° 47′, W. 71° 51′	29.90	759.4	69	20.6		wsw.			3		2		wsw.			sl'gt	ssw.	fair.
S. S. Scandinavian, N. 52° 11′ W. 21° 23′*	29.61	752.1	57	13.9		wsw.			6		5		wsw.	4 h'r	4 h'r	mod.	short	d clouds.
S. S. Waldensian, N. 49° 25′, W. 35° 25′*	30.19	766.8	57	13.9		wnw.			4		2?		nnw.	0	0	long.	ssw.	cloudy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, N. 42° 36′ W. 45° 57′*†	30.00	762.0				sw.			4		10		sw.	7 h'r	7 h'r	mod.	sw.	overcast.
S. S. Pennsylvania, N. 50° 43′ W. 18° 01′†	29.84	757.9	60	15.6		sw.			5		10		w.			mod.	sw.	raining.
ANCHOR LINE.																		
S. S. Bolivia, N. 41° 22′, W. 61° 28′†	29.71	754.6	68	20.0		wsw.			3		8?		wsw.	8 h'r	8 h'r	mod.	sw.	clear?
S. S. Ethiopa, N. 53° 00′, W. 24° 05′	29.58	751.3	53.5	11.9	97	w.			4		8		w.	3 h'r	3 h'r	rg'h	w.	showery.
S. S. Galatia, N. 48° 04′, W. 8° 09′†	30.26	768.6	64	17 8		sw.			3		3		sw.	o	o	sm'h	nw.	clear.
S. S. Utopia, N. 41° 56′, W. 49° 48′†	30.16	766.1	58	14.4	100	ssw.			4		10		w.	8 h'r	8 h'r	hv'y	sw.	fog & rain.
ATLAS LINE.																		
S. S. Ailsa, N. 19° 56′, W. 73° 15′.†	30.00	762.0	84	28.9	75	ne.			4		0			o	o	mod.	ne.	fair.
S. S. Alvena, N. 21° 22′, W. 73° 56′†	30.02	762.5	83	28.3	87	ene.			2		5		ene.	1 h'r	1 h'r	sm'h		fine.
S. S. Alvo, N. 20° 41′, W. 74° 19′	30.15	765.8				e.			4		3		e.	o	o	mod.	e.	fair.
BOSTON AND HALIFAX.																		
S. S. Carroll, Thatcher's Island Light, Mass.†	29.91	759.7	59	15.0		nw.			4				nw.	o	o	short	sw.	clear.
BRITISH METEOROLOGICAL OFFICE.																		
Bk. Arran. S. 13° 07′, W. 78° 30′	29.94	760.5	73.8	23.2	90	ese.			6		6							showery.
S. S. Auckland, N. 22° 56′ W. 24° 04′	30.21	767.3	73	22.8	76	nne.			3		4							blue sky.
S. Baroda, S. 24° 30′, E. 50° 29′	30.34	770.6	71.5	21.9	85	ne.			4		2							blue sky
British Merchant, N. 47° 58′ W 12° 26′	30.15	765.8	60.3	15.7	98	s.			4		10							misty.
S. S. City of Agra, N. 24° 06′, W. 21° 15′	30.21	767.3	72	22.2	79	nne.			4		8							d. clouds.
S. S Gordon Castle, N. 31° 00′, E. 32° 19′	29.84	757.9	94	34.4	40	n.			3		0							blue sky.
May Hulse, S. 28° 13′, W. 23° 57′	30.01	762.2	68.5	20.3	94	nw.			6		10							raining.
S. Oamarn, S. 27° 00′, E. 46° 44′	30.38	771.6	70.0	21.1	79	ene.			6		7							d. clouds.
S. S. Pole Star, N. 7° 37′, W. 29° 27′	30.09	764.3	77.2	25.1	100	s.			2		10							heavy rain.
S. S. Rosetta, N. 11° 37′, E. 110° 44′.	29.80	756.9	82.5	28.1	83	e.			4		10							overcast.
CROMWELL LINE.																		
S. S. Hudson, N. 38° 50′, W. 73° 55′†	30.03	762.7	66	18.9		n.			5		0			o	o	long	n.	clear.
CUNARD LINE.																		
S. S. Gallia, N. 50° 51′, W. 15° 16′.	29.80	756.9	61	16.1	94	wsw.			6		10			rain	rain		sw.	misty.
S. S. Marathon, N. 48° 41′, W. 32° 24′	30.03	762.7	58	14.4		w.			4		7		w.	o	o	r'gh	w.	fine.
S. S. Scythia, N. 43° 42′, W. 43° 20′	30.02	762.5	72	22.2	100	ssw.			5		10			7 h'r	7 h'r	mod.	ssw.	overcast.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 49° 59′, W. 18° 30′	29.95	760.7	62.6	17.0		sw.			5		n		sw.	o	o	h'vy	sw.	covered.
S. S. Ville de Marseilles, Marseilles, France*†	29.92	760.0	79	26.1		n.			2		o			o	o			clear.
GUION LINE.																		
S. S. Arizona, N. 51° 12′, W. 17° 31′	29.80	756.9	59	15.0		ssw.			5		10		w.	4 h'r	4 h'r	mod.	wnw.	drizzling.
S. S. Wisconsin, N. 46° 05′, W. 36° 45′	30.06	763.5	61	16.1	67	nw.			2		10		nw.	2 h'r	2 h'r	mod.	wnw.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 49° 25°, W. 13° 33′†	30.05	763.3				sw.			6		6		sw.	o	o	mod	sw.	misty.
S. S. Cimbria, N. 42° 59′, W. 41° 32′	30.10	764.5	69	20.6		sw.			5		7		sw.	o	o	r'gh	sw.	cloudy.
S. S. Gellert, N. 49° 37′, W. 17° 20′	29.96	761.0	66	18.9		sw.			5		10		sw.	4 h'r	4 h'r	long	sw.	cloudy.
S. S. Herder, N. 40° 30′, W. 64° 15′*†	29.89	759.2	79	26.1		wnw.			2		2		nw.	2 h'r	2 h'r	mod.	w.	clear.
S. S. Silesia, N. 51° 55′, E. 2° 39′†	30.24	768.1				s.			3		9			o	o	1-2	s.	hazy.
JOHNSTON LINE.																		
S. S. Thanemore, N. 37° 20′ W. 75° 15′	30.02	762.5				wsw.			3		1		w.	o	o	sm'h		clear.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 48° 00′ W. 9° 00′.*†	30.38	771.6	64	17.8		wsw.			4		7		wsw.	2 h'r	2 h'r	sm'h		cloudy.
MALLORY LINE.																		
S. S. Colorado, N. 34° 37′ W. 77° 02′†	29.92	760.0	75	23.9		s.			3		5		s.	o	o	mod.	s.	fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 33° 05′, W. 77° 23′.†.	30.12	765.0	85	29.4	96	calm			0		o			o	o			clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, Santos, Brazil	29.61	752.1				var.			3				sw.	o	o			fine.
S. S. Glenapp, N. 17° 08′, W. 56° 42′ †	30.13	765.3				ene.			3		3		ene.	o	o	sm'h		fine.
NATIONAL LINE.																		
S. S. Canada, N. 41° 24′, W. 47° 02′.†	30.06	763.5	70	21.1		ssw.			3		3		sw.	o	o	r'gh	con.	hazy.
S. S. Denmark, London. Eng	30.11	764.8	75	23.9		sw.			4		8		sw.	o	o			overcast.
S. S. Erin, Liverpool, Eng	30.07	763.8	56	13.3		nw.			4		3		wnw.	o	o			fine.
S. S. Greece, N. 42° 46′, W. 45° 00′	30.03	762.7				sw.			3		8		sw.	4 h'r	4 h'r	mod.	sw.	overcast.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 20° 34′, W. 79° 00′†	30.20	767.1	82	27.8		ene.			2		5		ese.	o	o	gentle	ese.	fine.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Vera Cruz, Mexico†	30.18	766.6	76	24.4	90	sw.			2		5		e.	2 h'r	2 h'r			showery.
S. S. City of Washington, N. 26° 15′, W. 80° 03′*†	30.22	767.6	84	28.9		var.			1		5			o	o	sm'h		fine.
NORTH GERMAN LLOYD.																		
S. S. America, N. 49° 51′, W 9° 16′*	30.15	765.8	60.8	16.0		sw.			4		8		sw.	o	o	mod.	sw.	overcast.
S. S. Habsburg, N. 48° 16′, W. 26° 00′	29.96	761.0	63.5	17.5		wsw.			5		8		wsw.	5 h'r	5 h'r	r'gh	wsw.	cloudy.
S. S. Hermann, N. 48° 51′, W. 24° 25′	29.94	760.5	60.8	16.0		wsw.			5		5?		wsw.	2 h'r	2 h'r	cross	wsw.	cloudy ?
S. S. Leipzig, N. 39° 55′ W. 57° 46′	29.89	759.2	72.0	22.2	90	calm			0		8		w.	5 h'r	5 h'r	mod.	sw.	fair.
S. S. Mosel, N. 51° 14′ E. 1° 43′	30.15	765.8	56.3	13.5		sw.			4		7		sw.	o	o	mod.	sw.	hazy.
S. S. Ohio, Bremerhaven, Germany	30.11	764.8				nnw.			2		2		n.	o	o			fair.
S. S. Rhein, N. 40° 48′, W. 63° 30′	29.80	756.9				w.			2		2		w.	o	o	mod.	w.	clear.
S. S. Saller, N. 40° 50′, W. 60° 56′	29.82	757 4	63.5	17.5		w.			5		5		w.	7 h'r	7 h'r	r'gh	w.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, San Francisco, Cal.†	30.08	764.0	60	15.6	76	sw.			4		5		sw.					fair.
S. S. Coptic, N 37° 32′ E. 151° 12′	29.84	757.9	65.0	18.3	?	wsw.			1		2		w.	o	o			blue sky.
S. S. Gaelic, N. 47° 34′, W. 164° 45′†	30.23	767.8	54	12.2	43	var.			2		8		ese.			light	e.	cloudy.
S. S. Oceanic, N. 23° 21′, E. 117° 37′*	29.79	756.7	80	26.7	91	sw.			3		8		sw.			3	sw.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 32° 46′, W. 79° 20′						nnw.			2		3		nw.	o	o	sm'h		clear.
S. S. City of Columbus, Savannah, Ga.†	30.00	762.0				w.			2		4		sw.	2 h'r	2 h'r			clear.
S. S. Seminole, N. 41° 00′, W. 71° 45′.†	29.92	760.0	66	18.9	78	nw.			3		1		wnw.	o	o	sm'h	ssw.	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, Portland, Oregon †	30.05	763.3	62	16.7	88	calm			0		0							clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	30.06	763.5	55	12.8	93	w.			1		10		w.					drizzling.
S. S. Dakota, San Francisco, Cal. *†	30.08	764.0	54	12.2	86	w.			2		8		nw.					foggy.
S. S. State of California, N 45° 50′, W. 124° 10′ †	30.19	766.8	56	13.3	?	nnw.			3		0					sm'h	nw.	clear.
S. S. Victoria, Nanaimo, Vancouver's Island†	29.97	761.2	62	16.7	88	calm			0		5			o	o			fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	30.18	766.6	66	18.9	94	w.			2		8?		w.	o	o			clear?
S. S. City of New York, N. 34° 07′, W. 130° 02′†	30.13	765.3	67	19.4	74	w.			2		10		w.	o	o	sm'h		cloudy.
S. S. City of Pekin, Yokohama, Japan †	30.03	762.7	69	20.6	95	w.			2		10		nw.	light	light	sm'h		drizzling.
S. S. City of Sydney, Sydney N. S. W.†	29.95	760.7	50	10.0	52	w.			6		5		w.	o	o	sm'h		fair.
S. S. City of Tokio, N. 39° 42′, W. 136° 30′†	30.40	772.1	62	16.7	88	nne.			3		8		nne.	o	o	mod.	n.	fine.
S. S. Colon, N. 33° 59′, W. 73° 57′†	30.01	762.2	78	25.6		e.			3		10		ene.	o	o	small	e.	overcast.
S. S. Colima, N. 14° 44′, W. 93° 46′†	29.96	761.0	80	26.7	82	ese.			4		9		ese.	0.50	12.7	mod.	se.	cloudy.
S. S. Grenada, N. 8° 26′, W. 83° 41′†	29.95	760.7	79	26.1	86	e.			1		2		ne.	o	o	high	sw.	clear.
S. S. Zelandia, Honolulu, Sandwich Islands	30.09	764.3	77	25.0	86						5		e.			sm'h		fine.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, Martinique, W. I.	29.94	760.5	82	27.8		ene.			3		o			24 h'r	24 h'r	sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
Red Star Line.																		
S. S. Belgenland, Antwerp, Belgium†	30.14	765.5	67	19.4	89	calm			0		0			0	0			
S. S. Rhynland, N. 49° 47′, W. 9° 03′	30.17	765.3	60	15.6	82	sw.			5		9		sw.	0	0	mod.	sw.	cloudy.
S. S. Switzerland, N. 41° 26′, W. 47° 10′†	30.13	765.3				sw.			3		10		sw.	½ h'r	½ h'r	mod.	sw	cloudy.
S. S. Vaderland, N. 47° 45′, W. 22° 38′	29.93	760.2	67	19.4	89	wsw			3		5		wsw.	6 h'r	6 h'r	sm'h		cloudy.
Rotterdam Line.																		
S. S. Schiedam, N. 41° 30′ W 51° 20′*	29.89	759.2	66.7	19.3	94	sw.			6		9		w.	16 h'r	16 h'r	cross		foggy.
S. S. W. A. Scholten, N. 49° 44′ W. 7° 01′	30.10	764.5	62.0	16.7	82	nw.			4		7		w.	0	0	mod.	w.	squally.
State Line.																		
S. S. State of Florida, N. 40° 48′, W. 52° 02′	29.85	758.2	72	22.2		ssw.			6		10		sw.	24 h'r	24 h'r	mod.	sw.	hazy.
S. S. Indiana, N. 41° 23′, W. 57° 02′†	30.09	764.3	71	21.7		wsw.			1		3		sw.	6 h'r	6 h'r	cross		misty.
Thingvalla Line.																		
S. S. Thingvalla, N. 53° 08′, W. 31° 07′†	30.02	762.5	51.8	11.0		nw.			5		10		nw.	5 h'r	5 h'r	cross	nw.	covered.
Warren Line.																		
S. S. Iowa, N. 43° 29′ W. 42° 18′*†	30.15	765.8	77	25.0		ssw.			4		9		ssw.	4 h'r	4 h'r	mod.	sw.	cloudy.
White Star Line.																		
S. S. Baltic, N. 40° 32′ W. 59° 24′†	29.95	760.7	73	22.8	85	w.			4		8		wsw.	0	0	mod.	sw.	d. clouds.
S. S. Britannic, N. 49° 09′, W. 32° 26′†	30.03	762.7	56	13.3	87	nw.			6		10		nw.			mod	nw.	d. clouds.
S. S. Celtic, New York, N. Y†	30.01	762.2	69	20.6	70	nw.			4		2		nw.	0	0			fair.
S. S. Republic, N. 41° 46′, W. 47° 59′†	30.19	766.8	69	20.6	90	ssw.			5		4		sw.	2 h'r	2 h'r	mod.	sw.	d. clouds.
Wilson Line.																		
S. S. Romano, N. 40° 24′ W. 58° 10′	29.83	757 7	70	21.1		sse.			2		10		s.	0	0	mod.	sw.	overcast.
Miscellaneous.																		
Schr. Addie Fuller, Bath, Me†	25.78	756.4	61	16.1	70	calm			0	0	0			0.13	3.3			clear.
Schr. Ajax, Indianola, Texas†						s.			1		1		s.	0	0			clear.
Schr. Annie Lewis, N. 28° 49′, W. 93° 00′†	30.26	768.6	83	28.3		sw.			3		5?		sw.	0	0	long	ssw.	cloudy ?
Bk. Anna Thormann, S. 34° 13′, W. 17° 52′	30.06	763.4	63.0	17.2	84	wnw.			4	2 c		nw.		2 h'r	2 h'r	long	sw.	clear.
S. S. Antonio Lopez, Barcelona, Spain	30.06	763.5	76	24.4	56	sw.			6		3			0	0			fair.
Bk. Argonaut, N. 53° 35′, E. 4° 23′*†	30.16	766.1	63.0	17.2		sw.			3		4			0	0	sm'h		fair.
Schr. Asa Eldridge, Punta Rassa, Fla†	30.21	767.3				w.			2		2		w.	0	0	sm'h		fair.
Bk. Aureola, S. 20° 01′, W. 38° 59′*†	30.32	770.1	74	23.3		s.			4		10		sw.	6 h'r	6 h'r	mod.	sw.	overcast.
Bk. Bergenseren. N. 42° 00′, W. 64° 40′†	29.76	755.9				wsw.			4		0			0	0	3	wsw.	clear.
Bk. Cato, N. 42° 37′, W. 42° 10′*†	30.47	773.9				sw.			5		6		sw.	0	0	mod.	sw.	cloudy.
Schr. C. R. Flint, Cedar Keys, Florida†	30.22	767.0	78	25.6		wsw.			2		5?		wsw.	6 h'r	6 h'r			cloudy.
Schr. Edith R. Seward, N. 19° 20′, W. 65° 36′*†	30.13	765.3	84	28.9		ene.			2		2		e.	0	0	r'gh	e.	clear.
S. E. J. Spicer, N. 42° 23′. W. 65° 23′†	29.85	758.2				wnw.			5		0			0	0	mod.	sw.	clear.
Bk. Essex, S. 27° 30′. W. 25° 00′*†	30.05	763.3	71	21.7		nw.			6		9		nw.	20 h'r	20 h'r		cross	rainy.
Bk. Freya, N. 42° 01′, W. 59° 03′			67	19.4		wsw.			5		5		wsw.	0	0	mod.	wsw.	fair.
S. Grecian, Hong Kong, China*†	29.85	758.2	84	28.9		s.			3		6?		s.	0	0			clear ?
Bk. Hattie G. McFarland, Portland. Me*†	29.80	756.9	59	15.0		wnw.			1		6			0	0			clear.
S. Hedwig, N. 36° 10′, W. 3° 37′	30.10	764.4	77.4	25.2	83	wsw.			1		2		w.	0	0	1	w.	fine.
Bk. Horace Scudder, New River Inlet, N. C†	29.97	761.2	80	26.7		wnw.			2		2		calm	0	0			fine.
S. Ivy, N. 27° 22′, W. 126° 35′†	30.31	769.9	65	18.3		e.			2		10		e.	0	0	sm'h	n.	cloudy.
S. Ismir, S. 45° 35′, E. 18° 41′†	29.57	751.1				wnw.			7		10		wnw.	4 h'r	4 h'r	hv'y	wnw.	snow sq'lls
Schr. Jennie N. Huddell, Camden, N. J†	30.05	763.3	70	21.1	79	nnw.			3		0			0	0			fair.
Schr. John L. Thomas, Vivorilla Cay, Mosquito Coast*†	30.10	764.5				e.			4		4		e.	2 h'r	2 h'r			squally.
Bg. John Wesley, N. 33° 12′ W. 73° 00′†	29.79	756.7				sw.			6		10		sw.	6 h'r	6 h'r	r'gh	sw.	thund'r st'm.
Bk. Joseph A. Ropes, N. 18° 45′, W. 34° 27′*†	30.22	767.6	79	26.1	78	ene.			4		6		ene.	0	0	mod.	ene.	fair
S. S. Lamperts, N. 20° 19′, E. 38° 23′*	29.70	754.4	87.0	30.6	72	nnw.			2		0							blue sky.
S. S. Laurel, Key West, Fla†	30.16	766.1	84	28.9		sse.			3		1		s.	0	0			clear.
Bk. Liberia, N. 9° 39′, W. 14° 43′*	30.07	763.8	78	25.6	90	wsw.			3		7							
S. S. Malabar, N. 47° 22′, E. 164° 17′*†	29.92	760.0				e.			1					0	0			
Bk Orpheus, N. 45° 35′, W. 20° 13′	30.16	766.1	65	18.3		wsw.			3		10 k		w.			mod.	w.	hazy.
S. Paramita, S. 29° 48′ W. 96° 31′†	29.85	758.2	68	20.0		wnw.			5-8		5?		wnw.	7 h'r	7 h'r	cross		clear.?
S. S. Ponca, Para, Brazil†	29.90	759.4	91	32.8		ne.			1		1		e.	0	0			clear.
Bk. Rosebud, S. 34° 11′ E. 13° 54′*†	30.20	767.1	60	15.6	88	wnw.			6		0			0	0	sharp	wnw.	
S. S. Sunbeam, N. 36° 25′, E. 17° 47′	30.01	762.2	77	25.0	65	ene.			2		0					1	ne.	blue sky.
S. Sovereign of the Sea, N. 18° 40′ W. 36° 02′*†	30.08	764.0	79	26.1	78	e.			3		8		e.	0	0	sm'h	e.	squally.
Bg. Teneriffe, Cardenas, Cuba, W. I.	30.10	764.5				calm			0									
Bk. Truro, N. 50° 56′, W. 21° 15′*†	29.80	756.9				wsw.			4		8		wsw.	10 h'r	10 h'r	mod.	w.	squally.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†	30.22	767.6	72	22.2	90	calm.			0		2		calm	0	0			clear.
Schr. Viola Reppard, North Point Light, Md†	29.95	760.7	74	23.3					3		2		ne.	0	0	sm'h		clear.
Bk. Wm. Wilcox, S. 20° 00′, W. 38° 00′*†	30.30	769.6	76	24.4		w.			3		10		w.	3 h'r	3 h'r	mod.	ese.	squally.
S. Wm. Woodbury, N. 43° 39′, W. 29° 19′*	30.19	766.8	70	21.1	84	wsw.			4		5?		w.	0	0	long	wsw.	cloudy.?

International Chart I. July 3, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 4, 1882,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.99	761.7	80.6	27.0	78	s.			2		2			inap.	inap.	fair	Bouvier.
Algiers			30.04	762.9	75.2	24.0	82	ne.			1		0			0	0	clear	Nicolas.
La Calle			30.02	762.4	83.5	28.6	54	n.			1		2			0	0	fair	Fonfrède.
Tunis			30.01	762.3															Jacques.
Saida			30.06	763.6	86.4	30.2	51	ese.			3		2			0	0	fair	Perès.
Tebessa			30.08	764.0	72.0	22.2	50	e.			1		1			inap.	inap.	very fair	Derché.
Geriville					90.0	32.2	11	nnw.			1		0			inap.	inap.	clear	Lonchamp.
Laghouat			30.08	763.9	93.2	34.0	30	se.			1		0			inap.	inap.	clear	Abraham.
Biskra			30.07	763.8	86.4	30.2	26	ne.			1		0			inap.	inap.	clear	Malau.
Australian.																			
Melbourne, Victoria	29.78	756.4	29.87	758.7	55.0	12.8	70	n.	14	6.3			3			0.05	1.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.41	746.9	29.94	760.4	71.6	22.0	48	ne.			3		6					raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.16	740.6	29.50	759.5	69.4	20.8	51	sw.	9.4	4.2			7			0.031	0.8		Dr. Wierzbiski.
Eperies	29.05	737.9	29.91	759.6	66.9	19.4	55	n.			2	0	7 s		s.	0.083	2.1		Julius Mikolik.
Gratz	28.76	730.4	29.97	761.2	68.5	20.3	67	calm			0		8			0	0		Andreas Rospini.
Hermannstadt	28.50	724.0	29.90	759.4	63.9	17.7	64	nw.			1		10			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.67	728.1	29.97	761.2	66.2	19.0	55	nnw.			1	0	5 k			0	0	cloudy	The Staff.
Lemberg	28.88	733.5	29.83	757.7	68.2	20.1	57	nw.			2		8			0	0		Dr. T. Stanecki.
Pola	29.84	757.9	29.95	760.6	76.1	24.5	48	wsw.			2		10			0	0		I. R. Hydrographic Office.
Szathmar	29.43	747.5	29.88	758.9	71.1	21.7	45	w.			1		3			0	0		Joseph Midlinszky, S. J.
Szegedin	29.65	753.0	29.92	759.9	68.7	20.4	50	nw.			1		7			0	0		Karl Stancel.
Trieste	29.87	758.8	29.98	761.4	72.0	22.2	44	calm			0		7			0	0		Royal Academy.
Vienna	29.28	743.7	29.97	761.3	72.7	22.6	36	nw.			2		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.42	747.3	29.51	749.5	58.6	14.8	90	s.	13	5.8			10			0.020	0.5	raining	W. Boswell
Armagh, Observatory	29.31	744.5	29.54	750.3	62.1	16.7	79	sw.	12	5.4			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.62	752.3	61.9	16.6	83	sse.	15	6.7			10					overcast	John Hartnup.
Bolton, Sharples	29.12	739.6	29.64	752.8	60.4	15.8	79	ssw.	18	8.0			10					overcast	Thomas Mackereth, [ton.
Bradford, Yorkshire	29.25	742.9	29.65	753.1	61.7	16.5	77	sw.			2		10			0.22	5.6	overcast	McLandsborough & Pres-
Bridgetown, Barbadoes	30.07	763.8	30.10	764.5	82.0	27.8	74	ne.			3		6					gloomy	Corpl. J. Surgenor, A. H. C.
Cardington			29.75	755.6	64.0	17.8	83	sw.			2.0		10					overcast	John McLaren.
Chatham, School M. E.	29.68	753.9	29.81	757.2	69.1	20.6	45	s.			2		5					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.53	750.0	29.75	755.6	58.7	14.8	93	ssw.			3		10					rain & fog	The Staff.
Fort Napier, Natal	27.73	704.3	29.95	760.7	73.4	23.0	20	ne.			2		1					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.59	751.6	29.82	757.4	82.0	27.8	82	sw.			1		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.99	761.7	30.04	763.0	80.4	26.9	72	sw.			4		4					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	29.31	744.5	29.52	749.8	60.4	15.8	82	w.			2		10 n					gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.64	752.8	29.80	756.9	62.8	17.1	69	sw.			1		10					overcast	The Staff.
Guernsey	29.61	752.1	29.90	759.4	61.5	16.4	77	sw.			1		10					threatening	A. Collenette, F. M. S.
Kew, Observatory	29.77	756.1	29.81	757.2	65.6	18.7	58	sw.	21	9.4			8					d. clouds	The Staff.
Leicester, Museum	29.48	748.8	29.73	755.1	65.0	18.3	70	sw.			3		10					overcast	J. C. Smith.
Malta, Mediterranean	29.84	757.9	29.91	759.7	79.6	26.4	72	nw.			2		2					blue sky	I. H. Whysall.
Nassau, Bahamas	30.07	763.8	30.12	765.0	87.5	30.8	70	s.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.22	742.2	29.73	755.1	60.9	16.1	82	s.			5		10					overcast	Warren Middleton.
Oxford, Radcliffe Obs'y	29.55	750.6	29.78	756.4	60.0	15.6	82	s.			4		10					overcast	The Staff.
Plymouth	29.70	754.4	29.78	756.4	59.5	15.3	88	sw.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.45	748.0	59.1	15.1	81						10					raining	Rev. C. Clouston, L. L. D
Scutari Cemetery, Turkey	29.76	755.9	29.82	757.4	83.2	28.4	46	nne.			2		0					blue sky	W. H. Lyne.
Sheffield	29.41	747.0	29.68	753.9	66.8	19.3	77	sw.			3		10			0.07	1.8	overcast	W. F. Cooper.
Silloth Rectory	29.52	749.8	29.55	750.6	59.7	15.4	94	ssw.			5		10			0.096	2.4	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.66	753.4	60.0	15.6	82	ssw.	21	9.4			10					overcast	Rev. C. H. Griffiths, F. M. S.
Stratfield Turgiss	29.59	751.6	29.80	756.9	60.9	16.1	73	sw.			2		9					d. clouds	W. Newcombe.
Truro, Royal Institution	29.69	754.1	29.70	754.4	60	15.6	87	w.			7		10					raining	The Met'g'l Office.
Valencia, Observatory	29.58	751.3	29.61	752.1	60.6	15.9	80	sw.	22	9.8			10			blank	blank	d. clouds	
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.90	759.4	29.94	760.5	58	14.4	78	sw.	5	2.2		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.84	757.9	29.90	759.4	57	13.9	80	w.	4	1.8		2 c	0	w.		0.01	0.3	fair	G. A. Blair.
Father Point, Quebec*	29.83	757.7	29.85	758.2	50	10.0	86	w.	12	5.4		0	2 s		n.	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.38	746.2	30.21	767.3	51	10.6	100	w.	1	0.4		2 ck	2 s	n.	n.	0.020	0.5	misty	James Stewart.
Halifax, N. S*	29.91	759.7	30.03	762.7	60	15.6	84	sw.	2	0.9		2 ck	0	w.		0	0	fair	A. Allison.
Kingston, Ontario*	29.61	752.1	29.94	760.5	57	13.9	80	ne.	5	2.2		4 cs	0	sw.		0.36	9.1	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.75	755.6	29.95	760.7	59	15.0	72	n.	4	1.8		2 c	0	w.		0.01	0.3	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.31	744.5	29.99	761.7	55	12.8	77	ne.	12	5.4		2 cs	0	ne.		0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.21	741.9	29.89	759.2	55	12.8	93	n.	6	2.7		10 k	0	n.		0.01	0.3	cloudy	H. Morgan.
Port Stanley, Ontario	29.26	743.2	29.90	759.4	54	12.2	83	n.	9	4.0			10 n		ne.	0.08	2.0	cloudy	M. Payne.
Quebec, Quebec*	29.64	752.8	29.96	761.0	55	12.8	86	w.			1	0	2 ks		w.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.55	750.6	30.01	762.2	47	8.3	93	nw.	4	1.8		0	fg.			0.01	0.3	light fog	W. H. McIntyre.
Saugeen, Ontario*	29.25	742.9	29.97	761.2	46	7.8	89	ne.	9	4.0		2 k	0			0	0	clear	
St. Andrews, N. B	29.91	759.7	29.96	761.0	56	13.3	84	wnw.	1	0.4		0	0			0.01	0.3	clear	
Sydney, C. B*	29.87	758.7	29.93	760.2	59	15.0	72	sw.	26	11.6		5 ck	0	sw.		0.01	0.3	fair	T. C. Hill, C. E
Toronto, Ontario*	29.56	750.8	29.94	760.5	59	15.0	67	ne.	12	5.4		5 cs	0	w.		0	0	fair	Magnetic Observatory.
Yarmouth, N. S*	29.93	760.2	30.00	762.0	55	12.8	90	calm	0	0		2 k	0	nw.		0	0	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.54	724.9	30.01	762.2	51.0	10.6	86	n.			3	7 cs	7 cs	nw.		0	0	fair	Wm. Wylie.
St. Johns, Newfoundland	30.00	762.0	30.25	768.3	57	13.9	75	sw.	5	2.2		5 k	5 s			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.21	767.3	30.24	768.1	60.0	15.6	58	wsw.	13.7	6.1			10 n			0	0		John Duthie.
Cape Town, C. G. H. Obs'y	30.26	768.6	30.30	769.6	56.5	13.6	70	s.	11	4.9		10	10			0.140	3.6		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.80	756.8	29.82	757.5	73.9	23.3	93	se.	12.8	5.7			10			0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.75	755.6	29.80	756.8	66.7	19.3	67	wnw.	11	5			9						Oversergent Fischer.
Fanöe	29.78	756.4	29.80	756.9	63.9	17.7	84	wsw.			4		10						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.74	755.4	29.78	756.5	45.0	7.2	87	se.			4		10						A. O. Thorlacius.
Thorshavn	29.43	747.4	29.46	748.3	52.2	11.2	97	calm	0	0			10					rain & fog	Overloerer Bergh.
Vestervig	29.66	753.4	29.75	755.7	65.1	18.4	88	sw.			4		10						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.29	743.9	29.90	759.5	83.8	28.8	29	se.			1		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.35	745.5	29.90	759.5	69.1	20.6	76	ssw.			1		8			0	0		M. Nicot, Director.
Arras, Engineer School	29.57	751.1	29.82	757.3	76.6	24.8	66	sw.			3	ck	0	se.		0	0		M. Fénéon, Command't.
Avignon, Normal School	29.87	758.8	29.95	760.8	83.1	28.4	45	n.			1		0			0	0	clear	M. Girand, Director.
Bar-sur-Seine	29.41	747.0	29.94	760.5	76.5	24.7	42	se.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.62	752.4	29.87	758.8	76.3	24.6	59	ssw.			2		5		sw.	0	0	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.04	737.7	29.91	759.6	74.5	23.6	48	nne.			1	2 c	0	nne.		0	0	slightly cl'dy.	M. Gobin, Director.
Bordeaux, Observatory	29.63	752.6	29.88	759.0	79.7	26.5	34	e.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.39	746.4	29.91	759.8	77.0	25	34	sse.			2	c	0	sse.		0	0		M. Malet, Director.
Brest, Naval Observatory	29.65	753.1	29.89	759.3	65.8	18.8	69	sw.			2		10		sw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	29.82	757.5	29.90	759.4	71.4	21.9	64	sw.			1		5		sw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.59	751.0	29.90	759.4	79.7	26.5	42	calm			0		2			0	0	slightly cld'y	M. Jadot, Director.
Charleville, Normal School	29.39	746.4	29.87	758.8	77.4	25.2	43	w.			1					0	0		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.60	726.3	29.87	758.8	79.0	26.1	32	s.			2		0			0	0	clear	M. Allnard, Director.
Cluny, Normal School	29.16	740.0	29.97	761.3	77.4	25.2	33	se.			1		1		se.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.12	739.6	29.96	761.0	78.6	25.9	42	se.			1		5 kn	se.	se.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.50	698.4	29.92	759.9	79.5	26.4	32	w.			2	2	5 kn		w.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.87	733.2	29.93	760.3	81.3	27.4	24	sw.			3		2		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.19	741.3	29.95	760.8	78.8	26	43	nnw.			1	0	2 k			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.36	720.4	29.87	758.6	76.1	24.5	38	e.			1	2 c	0	se.		0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	29.54	750.4	29.82	757.3	57.2	14.0	95	s.			1		n		s.	0	0	light fog	M. Ollitrault, Director.
Lescar, Normal School	29.34	745.2	29.87	758.8	84.2	29.0	42	e.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.81	757.2	29.91	759.8	64.4	18.0	74	s.			1		10			0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.93	734.9	29.95	760.6	77.9	25.5	32	se.			1	1 c	c			0	0	clear	M. André, Director.
Mans, Normal School	29.61	752.2	29.91	759.7	72.9	22.7	46	s.			1		5		s.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.72	754.9	29.98	761.6	78.6	25.9	36	s.			1		1		ne.	0	0		M. Stephan, Director.
Montlouis	24.87	631.6	29.71	754.6	67.6	19.8	43	w.	9.4	4.2			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.84	758.0	29.97	761.1	78.8	26	84	s.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.20	741.6	29.95	760.6	75.2	24.0	44	s.			1		k		w.	0	0		M. Hasse, Director
Nantes, Observatory	29.78	756.4	29.95	760.6	77.4	25.2	56	s.			1–2	0	4 k		s.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.86	758.5	29.97	761.2	77.7	25.4	35	e.	16.8	7.5			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.30	542.5			51.8	11.0		sw.			1		1		sw.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.85	732.8	29.90	759.5	72.0	22.2	58	n.			1					0	0		M. Tallieu.
Puy de Dôme Obs'y, Summit	25.19	639.8			54.3	12.4	69	se.			3		0			0	0	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	29.92	760.0	29.95	760.8	82.0	27.8	100	s.			1		1		sw.	0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.68	753.9	29.81	757.1	78.8	26	51	s.			1		2		se.	0	0	slightly cl'dy	M. Mouillot, Director.
Rodez, Normal School	27.88	708.1	29.93	760.2	77.0	25.0	31	e.			1	0	5 k			0	0	fair	M. Seger, Director.
Rouen, Normal School	29.82	757.5	29.87	758.7	77.0	25	47	sw.			1		5	s.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.73	755.1	29.89	759.3	80.2	26.8	43	sse.			1		7		sw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.27	743.5	30.00	761.9	86.0	30.0	27	se.			1		1		w.	0	0	clear	M. Baillaud, Director.
Tours	29.74	755.3	29.91	759.8	77.7	25.4	56	sw.			1		5	wsw.	sw.	0	0	stormy	M. de Tastes.
Versailles, Observatory	29.40	746.7	29.89	759.2	80.6	27.0	43	sw.			2					0	c		Dr. A. Bérguy, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.63	752.6	29.92	760.0	81.0	27.2	45	sw.			1		7		sw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.15	740.5	30.01	762.2	75.6	24.2	46	calm			0	0	3 k		nw.	0	0		Prof. Dr. Hoh.
Berlin	29.81	757.1	29.98	761.5	76.6	24.8	34	nw.			3		7			0	0		Prof. Dr. Arndt.
Breslau	29.43	747.6	29.97	761.1	72.7	22.6	34	w.			2		3			0	0		Royal University Obs'y.
Carlsruhe	29.52	749.9	29.95	760.6	74.1	23.4	55	sse.			1		1	se.		0	0		Albert Senz.
Cassel	29.32	744.8	30.04	762.9	73.8	23.2	48	s.			4		6	sw.				thnd'r storm	Dr. H. Möhl.
Frankfort-on-the-Main	29.56	750.7	29.90	759.5	76.6	24.8	48	s.			1		3			0	0		Physical Society.
Friedrichshafen	28.58	725.8	29.97	761.3	66.6	19.2	73	sw.			1		0			0	0		Wilhelm, Chief Tel.
Hamburg	29.78	756.5	29.88	758.9	70.7	21.5	64	sw.			4		9	nw.		0	0		E. Preller.
Kiel	29.81	757.1	29.82	757.5	69.1	20.0	70	sw.			2		10			0.024	0.6		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.53	750.0	29.93	760.2	70.3	24.6	39	sw.			2		6	wsw.		0	0		H. Leppig, Asst.
Magdeburg	29.71	754.7	29.89	759.2	76.8	24.9	43	w.			2	c	8 ks	sw.	nw.	0	0		Dr. Assmann.
Memel	29.81	757.1	29.85	758.3	66.2	19.0	63	w.			4		10 ks						Issermann.
Munich	28.22	716.7	30.08	764.1	67.8	19.9	44	n.			2		3	n.		0.138	3.5		Dr. C. Lang.
Neufahrwasser	29.84	758.0	29.86	758.4	70.5	21.4	42	nw.			1		10			0	0		A. Lothes.
Neustadt, Palatinate																			Dicknether.
Stuttgart	29.02	737.1	29.87	758.8	73.8	23.2	43	sw.			1		2	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.85	758.2	29.87	758.7	64.6	18.1	77	sw.			4		10 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.48	748.9			86.0	30.0		sw.			3.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.46	748.3	29.51	749.5	88.0	31.1	80	wsw.	22.0	9.8			7		sw.	0	0	d. clouds	
Deesa	28.96	735.5	29.41	747.1	92.8	33.8	50	s.	12.8	5.7			7	se.		0.04	1.0	d. clouds	
Bombay	29.55	750.4	29.58	751.4	77.4	25.2	95	wsw.	22.0	9.8			10		sw.	2.96	75.2	raining	
Poona, Yarrowda	27.74	704.6	29.59	751.5	76.0	24.4	74	wsw.	21.0	9.4			10		w.	0.68	2.0	overcast	
Trichinopoly	29.47	748.4	29.74	755.5	88.3	31.3	31	w.	7.0	3.1			8			0	0	d. clouds	
Bellary	28.22	716.9	29.68	753.9	80.0	26.7	60	w.	11.9	5.3			10	sw.		0.01	0.3	gloomy	
Belgaum	27.16	689.8	29.72	754.9	68.0	20.0	96	wsw.	12.0	5.4			10			2.02	51.3	showery	
Lahore	28.74	730.1	29.46	748.3	91.1	32.8	52	ne.	7.3	3.3			0			0	0	blue sky	
Roorkee	28.65	727.8	29.55	750.0	75.6	24.2	96	ne.	3.9	1.7			10			0.72	18.3		
Agra	28.91	734.4	29.47	748.6	80.3	26.8	83	e.	6.1	2.7			10		e.	0.62	15.7	overcast	
Nagpur	28.46	722.9	29.48	748.9	85.1	29.5	69	sw.	4.3	1.9			9		w.	0	0	d. clouds	
Jubbulpore	28.19	716.0	29.53	750.1	80.2	26.8	86	calm	1.6	0.7			9			0.21	5.3	overcast	
Lucknow	29.14	740.0	29.50	749.4	88.1	31.2	71	e.	5.1	2.3			6	s.		0	0	d. clouds	
Allahabad	29.17	741.0	29.48	748.8	85.7	29.8	84	calm	3.8	1.7			8			0.62	15.7	d. clouds	
Patna	29.38	746.1	29.56	750.8	87.6	30.9	73	e.	6.5	2.9			6	e.	e.	0	0	d. clouds	
Hazaribagh	27.54	699.6	29.52	749.9	80.8	27.1	77	ese.	9.5	4.2			9	e.	w.	0.06	1.5	drizzling	
Cuttack	29.43	747.4	29.51	749.4	84.8	29.3	83	s.	0.3	0.1			9			0.91	23.1	d. clouds	
Calcutta, Alipore	29.52	749.7	29.54	750.3	83.5	28.0	83	sse.	4.0	1.8			9	sse.	sse.	0.06	1.5	d. clouds	
Dhubri	29.49	749.0	29.60	751.9	81.6	27.6	93	calm	3.5	1.6			9	w.		0.03	0.8	d. clouds	
Chittagong	29.51	749.6	29.60	751.9	84.2	29.0	84	sse.	4.4	2.0			6			0	0	d. clouds	
Sibsagar	29.29	744.0	29.62	752.4	85.0	29.4	76	w.	2.4	1.1			10	w.	w.	0.30	7.6	d. clouds	
Jeypore	28.05	712.4	29.46	748.4	82.9	28.3	83	e.	3.7	1.6			7	e.		0.50	12.7	d. clouds	
Zanzibar, Africa	30.10	764.5			83.5	28.6	58	se.	6.9	3.1			6		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.60	751.7	29.99	761.7	74.1	23.4	58	w.	0.7	0.3			5			0	0		Prof. Giovanni Clodig.
Milan	29.59	749.4	30.00	762.0	75.7	24.3	44	e.	3.8	1.7			1			0.213	5.4		Prof. Schiaparelli.
Padua	29.88	759.0	29.99	761.7	73.9	23.3	39	sse.	3.8	1.7			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.10	739.2	29.97	761.3	73.4	23.0	49	nw.	2.5	1.1			6	w.		0	0		Prof. P. F. Denza.
Genoa	29.80	757.0	29.99	761.7	76.1	24.1	38	sw.	3.8	1.7			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.12	714.3	29.97	761.2	68.1	20.1	56	nw.			2		1	s.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.92	759.9	29.97	761.1	70.9	21.6	50	ne.	2.5	1.1			1	ne.		0.370	9.4		Prof. Luigi Guidi.
Florence	29.72	754.9	29.97	761.1	75.2	24.0	39	n.			2		3			0.008	0.2		Prof. Costantino Pitter.
Leghorn	29.84	757.9	29.92	760.0	75.2	24.0	49	wsw.	6.3	2.8			1			0	0		Prof. P. Monte.
Rome	29.70	754.4	29.87	758.7	80.2	26.8	34	nnw.	10.5	4.7			3	nw.		0	0		Prof. P. S. Ferrari.
Lecce	29.62	752.4	29.86	758.5	67.6	19.8	64	ene.	7.4	3.3			7	sw.		0	0		Prof. C. de Giorgi.
Cosenza	29.03	737.4	29.88	758.9	82.4	28.0	73	wnw.	6.9	3.1			5	w.		0	0		Prof. D. Conti.
Cagliari	29.73	755.1	29.92	759.9	81.5	27.5	29	wnw.			4		1			0	0		Prof. A. Pacinotti.
Palermo	29.69	754.1	29.93	760.1	77.4	25.2	63	nnw.	19.9	8.9			5			0	0		Prof. G. Ciacciatore.
Syracuse	29.85	758.3	29.90	759.4	79.0	26.1	68	ne.	4.9	2.2			7	wsw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.35	745.4	29.85	758.2	75.4	24.1	64	sw.	1.3	0.6			8	ne.		0	0		Prof. T. Brioschi.
Stelvio	22.23	564.6			48.6	9.2	46	ne.			2		2			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.29	566.2			46.0	7.8	71	e.			2		9			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.90	759.4	29.91	759.7	56.5	13.6	81	n.	10.8	4.8			0			0	0	clear	
Hiroshima, I. M. Obs'y					74.6	23.7	81	wsw.	1.5	0.7		2 cs	6 ck			0	0	cloudy	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.71	754.6	29.87	758.7	70.7	21.5	76	nw.	2.5	1.1		2 ck	5 ck;s			0	0	fair	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.68	753.9	29.88	758.8	74.8	23.8	89	calm	0	0		0	6 s			0	0	cloudy	S. Takehayashi.
Nemuro	29.78	756.4	29.84	757.9	53.0	11.7	93	calm	0	0		10	0			0	0	cloudy	
Niigata	29.91	759.7	29.94	760.5	65.1	18.4	85	nne.	2.4	1.1		0	0			0	0	clear	M. Morita.
Nobiru	29.91	759.7	29.93	760.1	61.5	16.4	77	ene.	6.6	2.9		0	2 s			0	0	fair	H. Midzushina.
Osaka	29.87	758.7	29.88	758.9	74.4	23.6	72	nne.	8.3	3.7		3 c	2 s			0	0	fair	
Supporo					56.8	13.8	93	n.	12.0	5.4			10			inap.	inap.	covered	
Tokei Obs'y, Yeddo	29.84	757.9	29.91	759.7	69.0	20.6	94	se.	9.2	4.1			10 n			0.284	7.2	light rain	The Staff.
Wakayama	29.81	757.2	29.86	758.4	74.6	23.7	85	calm	0	0		0	0			0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	30.01	762.2	30.20	767.1	72.3	22.4	79	e.	19.5	8.7		6ck;cs	4 k;n	ene.	ese.	0.50	12.7	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.76	603.4	29.98	761.4	55.4	13.0	81	se.				0	1 n		e.	0	0	clear	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.04	763.0	59.4	15.2	87	nw.			1	2 c	0	sw.		0	0	fair	Prof. M. Leal.
Mazatlan	29.72	754.8	29.97	761.2	81.5	27.5	89	w.	11.0	4.9			10 n		wnw.	0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.6	30.26	768.5	50.0	10.0	83	calm	0	0		4 c	2 k			0.449	11.4	½ cloudy	The Staff.
Morelia	24.30	617.2	30.38	771.7	59.4	15.2	60	s.			3	2	0	s.		0.2487	2.37	clear	M. Tena, M. D
Orizaba	26.14	664.0	30.12	765.0	60.4	15.8	80	s.	10.9	4.8		2	4	s.	se.	0	0	½ cloudy	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.03	610.4	30.02	762.6	58.8	14.9	74	wnw.			1	0	0			0	0	fine	M. V. de Leon, M. E
Puebla, Catholic Institute	23.47	596.2	30.31	769.9	49.5	9.7	95	calm	0	0		0	0			0.410	10.4	fine	Prof. P. Spina.
San Luis Potosi	24.29	616.6	30.19	766.7	66.4	19.1	56	e.				0	4		e.	0	0	clear	G. Barroeta, M. D.
Zacatecas	22.62	574.5	30.23	767.7	60.0	15.6	70	ne.	8.9	3.9		0	0			0	0	fine	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	29.89	759.1	29.89	759.1	68.5	20.3		ssw.			3					0	0		
Groningen	29.80	756.9	29.85	758.3	70.2	21.2		wsw.			3					0	0		
Helder	29.84	757.9	29.84	757.9	62.8	17.1		ssw.			4					0.031	0.8		
Hellevoetsluis	29.88	759.0	29.88	759.0	65.7	18.7	80	wsw.			2					0	0		
Utrecht	29.85	758.2	29.90	759.4	67.8	19.9	73	sw.			2		8			0	0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.59	751.5	29.65	753.1	65.8	18.8	64	s.	11	5			8			blank	blank		
Brono	29.69	754.1	29.73	755.1	56.1	13.4	73	n.	4	2			5			0	0		
Christiania	29.52	749.7	29.65	753.2	69.8	21.0	38	sw.	13	6			3			0.059	1.5		
Gjæsvær	29.84	757.8	29.86	758.4	42.6	5.9		ne.			6		10						
Lodingen	29.70	754.4	29.75	755.6	57.9	14.4	40	e.			4		1			0	0		
PORTUGUESE.																			
Angra, Azores					74.1	23.4	88	nw.	14.3	6.4			5			0	0		Dr. J. A. Sampaio.
Campo Major	29.02	737.1	29.97	761.2	83.8	28.8	33	wnw.	4.9	2.2			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.15	765.9	30.24	768.2	72.1	22.3	68	sw.	4.9	2.2			9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.74	755.3	30.09	764.2	71.1	21.7	59	nnw.	8.7	3.9			0			0	0		The Staff.
Ponta Delgada, Azores	30.32	770.2	30.39	772.0	74.1	23.4	70	wnw.	9.4	4.2			3			0	0		
Saint Paul de Loando	29.88	758.9	30.08	764.1	70.2	21.2	75	w.	1.3	0 6			0			0	0		
Serra da Estrella	25.33	643.4	29.90	759.4	64.8	18.2	47	nw.	17.4	7.8			1			0	0		
RUSSIAN.																			
Akmolinski	28.60	726.3	29.63	752.5	69.3	20.7	37	wnw.	9	4		0	2 k			0	0		Major K. Lasarew.
Archangel	29.62	752.3	29.64	752.8	48.7	9.3	62	wnw.	18	8		0	7 ks			0	0		Capt. Sseliwerstow.
Astrakhan	29.83	757.7	29.75	755.6	81.9	27.7	62	se.	9	4		0	5 k			0.157	4.0		Capt. Wisganow.
Barnaul	29.08	738.5	29.56	750.9	55.4	13.0	86	nw.	45	20			10			0.965	24.5		Meteorological Obs'y.
Dorpat	29.42	747.3	29.65	753.2	68.4	20.2	66	w.	7	3			10 kn			0.213	5.4	raining	Observatory.
Ekaterinburg	28.61	726.7	29.54	750.2	63.5	17.4	39	w.	9	4		cs	7 k;ks			0.114	2.9		Meteorological Obs'y.
Irkutsk	28.24	717.2	29.80	757.0	70.9	21.6	80	s.	2	1		0	8 s			0	0		
Kasan	29.43	747.5	29.69	754.0	70.7	21.5	44	wnw.	7	3			9			0	0		Observatory.
Kertch	29.71	754.6	29.73	755.1	79.3	26.3	73	s.	4	2		0	8 n			0	0		Lagorio & Sastyrez.
Kieff	28.98	736.2	29.61	752.0	50.5	13.6	95	nw.	13	6			10ks;n			0.035	0.9	light rain	Observatory.
Lugan	29.40	746.7	29.60	751.7	72.0	22.2	80	sse.	2	1			9			0.417	10.6		Meteorological Obs'y
Moscow	29.19	741.5	29.64	752.8	73.6	23.1	35	s.	4	2			2 ks						Meteorological Obs'y.
Nikolaiev	29.71	754.0	29.78	756.4	71.2	21.8	60	w.	13	6		ck	9 n			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.50	749.4	29.65	753.0	79.2	26.2	46	se.	4	2		0	6 ks			0	0		Physical Observatory
St. Petersburg	29.58	751.3	29.60	751.7	72.1	22.3	43	wnw.	7	3		8 ck	0			0.173	4.4		Central Physical Obs'y
Semipalatinsk	28.97	735.8	29.58	751.3	80.2	26.8	46	nw.	4	2			2			0	0		Major Lasarew.
Tashkend, Laboratory	28.16	715.3	29.61	752.1	90.5	32.5	40	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.37	720.5	29.68	753.9	90.7	32.6	20	nw.	13	6		2 ck	0			0	0		Physical Observatory
Vladivostock	29.88	759.0			60.8	16.0	97	sse.	9	4			10 n						
Warsaw	29.45	748.0	29.85	758.3	71.8	22.1	36	nw.	9	4		0	8 ks						Astronomical Obs'y
Wilna	29.36	745.7	29.76	755.9	71.8	22.1	41	w.	2	1			6			0	0		Berg, Assistant.
Yeniseisk	29.46	748.2	29.73	755.1	71.1	21.7	69	e.	4	2			10			0.689	17.5	raining	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.84	757.9	29.94	760.5	79.5	26.4	52	sw.	8.1	3.6		1 ck	0						Antonio Rave, Director.
Bilbao, Met. Obs'y	29.87	758.6	29.93	760.1	76.5	24.7	61	nw.	2.7	1.2		1	0	w.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.05	687.0	29.85	758.3	80.6	27.0	25	w.	5.4	2.4			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.77	705.3	29.84	758.0	90.3	32.4	32	sw.	11.9	5.3		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director
Santiago, Met. Obs'y	29.07	738.3	29.93	760.3	75.0	23.9	57	nw.	1.8	0.8			8			0	0	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.																			Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.6	29.89	759.1	84.5	29.2	73	e.	5.5	2.5		4 c	4 ks		e.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.01	762.2	30.11	764.6	72.9	22.7	71	w.	3.7	1.7		4	4	w.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.07	763.8	30.16	766.1	78.8	26.0	92	calm	0	0			10 kn		se.	0.165	4.2	overcast	Manuel Maese.
Tuguegarao, Philippine Id's	29.76	755.9	29.89	759.2	85.4	29.7	75	se.	3.8	1.7		0	1 k		se.	0	0	clear	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.70	754.4	29.74	755.4	56.5	13.6	40	n.			4		5			0	0		
Umea	29.62	752.3	29.67	753.6	59.7	15.4	45	e.			7		6			0	0		
Hernosand	29.56	750.8	29.61	752.1	52.5	11.4	69	ne.			7		10			0.291	7.4		
Stockholm	29.35	745.4	29.52	749.9	65.8	18.8	51	nw			6		9			0.161	4.1		
Wisby	29.60	751.9	29.66	753.4	63.7	17 6	74	w.			4		3			0.008	0.2		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Sub-series.																			
Upsala	29.46	748.3	29.55	750.5	60.8	16.0	66	nw.	15.4	6.9			8		wnw.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.59	726.1	29.97	761.3	68.4	20.2	48	n.			3					0	0	clear	The Observatory
Scottish.																			
Monach Lt			29.44	747.8	59	15.0	94	sw.			4	5	5	sw.		0.4	10.	cloudy	J. Youngclause.
North Unst			29.29	744.0				e.			4		fg.					foggy	
Turkish.																			
Constantinople			29.88	759.0	77.9	25.5	54	nne.	11.2	5.0			0			0	0		The Observatory.
Valona			30.00	762.1	80.2	26.8		s.			1		10			0	0	covered	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.76	755.9	84.9	29.4	64	sw.			3	0	1 s		sw.	0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.89	759.2	29.97	761.2	61	16.1	72	n.	3	1.3			10 ks		w.	inap.	inap.	cloudy	J. O. Barnes.
Alpena, Michigan	29.40	746.7	30.04	763.0	58	14.4	69	ne.	8	3.6		0	4 s			0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.18	639.6	29.92	760.0	62	16.7	56	e.	4	1.8		0	6 s		calm	0	0	fair	W. O. Barnes.
Assinnaboine, Ft., Montana	27.26	692.4	29.99	761.7	71	21.7	43	sw.	12	5.4		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.69	728.7	29.84	757.9	71.0	21.7	87	w.	6	2.7			10 s			1.80	45.7	cloudy	H. Hall.
Atlantic City, New Jersey	29.86	758.4	29.87	758.7	66	18.9	90	e.	9	4.0		5 ck	5 s	sw.	calm	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.67	753.6	29.86	758.4	76.0	24.4	82	sw.	4	1.8		4 k	0	sw.		0	0	fair	John Healy.
Baltimore, Maryland	29.81	757.2	29.86	758.4	68	20.0	78	e.	6	2.7		0	9 ks		w.	inap.	inap.	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.88	758.9	29.90	759.4	68.3	20.2	75	e.	10	4.5		4 c	3 k	sw.		0	0	fair	G. A. Hill.
Bennett, Fort, Dakota	28.60	726.4	30.14	765.5	62	16.7	84	se.	4	1.8		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.28	692.9	29.99	761.7	70	21.1	55	calm	0	0		3 c	0			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	29.75	755.6	29.77	756.1	44.2	6.8		se.	5	2.2			9 k			0.04	1.0	cloudy	Dr. L. Steineger.
Bismarck, Dakota																0	0		Cyrus Cramer.
Block Island, Rhode Island	29.91	759.7	29.94	760.5	64.2	17.9	78	e.	1	0.4		6 cs	0	e.		0	0	fair	J. T. Eiker.
Boise City, Idaho	27.26	692.4	29.98	761.5	73	22.8	59	nw.	3	1.3		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.82	757.4	29.97	761.2	65.0	18.3	60	n.	2	0.9		7 cs	0	w.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.94	760.5	29.98	761.5	76.8	24.9	85	s.	7	3.1		2 c	0	calm		0	0	clear	M. McCarty.
Buffalo, New York	29.15	740.4	29.88	758.9	58	14.4	81	ne.	5	2.2			10 s			0.01	0.3	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.16	715.3	30.10	764.5	63	17.2	73	e.	4	1.8		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.67	753.6	29.95	760.7	57.0	13.9	77	s.	1	0.4		9 cs	0	w.		0.01	0.3	cloudy	G. O. Schaeffer.
Cairo, Illinois	29.52	749.8	29.91	759.7	70.7	21.5	83	n.	10	4.5			10 ks		n.	1.62	41.1	threatening	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.29	693.2	29.88	758.9	76	24.4	62	se.			1	2 cs	1 ks	w.	w.	inap.	inap.	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.80	756.9	29.82	757.4	70	21.1	90	e.	15	6.7			10 s		e.	0.06	1.5	cloudy	A. K. Alderson.
Cape May, New Jersey																			W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	29.92	760.0	29.94	760.5	75	23.9	97	w.	14	6.3			10 n		w.	1.82	46.2	light rain	F. W. Mixer.
Champaign, Illinois	29.16	740.7	29.95	760.7	59.5	15.3	74	n.	22	9.8		0	5 k.		ne.	0.22	5.6	fair	L. A. Welsh.
Charleston, S. Carolina	29.76	755.9	29.81	757.2	81	27.2	79	w.	8	3.6		0	8 s		w.	0.02	0.5	cloudy	J. H. Smith.
Charlotte, N. Carolina	28.93	734.8	29.76	755.9	72.0	22.2	84	e.	3	1.3			10 s		ne.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.03	737.3	29.83	757.7	72.0	22.2	90	sw.	5	2.2			10 ks		w.	0.59	15.0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.32	617.7	30.01	762.2	58.2	14.6	67	w.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.33	745.0	30.02	762.5	58.0	14.4	80	n.	12	5.4		1 k	0	n.		0.40	10.2	clear	J. Mitchell.
Chincoteague, Virginia	29.80	756.9	29.82	757.4	71	21.7	82	e.	10	4.5			9 s		e.	0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.18	741.2	29.82	757.4	63	17.2	78	n.	8	3.6			10 s		n.	0.29	7.4	cloudy	J. F. Harrold.
Cleveland, Ohio	29.14	740.1	29.86	758.4	58.6	14.8	92	ne.	9	4.0			10 n		ne.	0.57	14.5	light rain	J. B. Newlin.
Coleman City, Texas	28.24	717.3	30.00	762.0	79	26.1	60	n.	14	6.3			10 s		n.	0	0	threatening	L. Dorman.
Columbus, Ohio	28.97	735.8	29.80	756.9	60	15.6	75	n.	13	5.8		6 ck	2 k	nw.	n.	0.08	2.0	clearing	D. Cuthbertson.
Concho, Texas	28.11	714.0	29.99	761.7	74	23.3	76	ne.	6	2.7		0	9 s		se.	0.15	3.8	cloudy	W. W. McConihe.
Custer, Fort, Montana	26.97	685.0	29.99	761.7	67	19.4	70	s.	4	1.8		2 k	0	calm		0	0	clear	V. Verge.
Davenport, Iowa	29.47	748.5	30.10	764.5	58	14.4	81	n.	10	4.5		0	0			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	29.84	757.9	64	17.8	73	n.	4	1.8			10 n		n.	0.26	6.6	thund'r st'm	J. Williams.
Dayton, Washington T'y	28.39	721.1	30.10	764.5	67.8	19.9	61	sw.	1	0.4		8 k	0	sw.		0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.59	650.0	30.01	762.2	57.5	14.2	62	w.	4	1.8		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					75	23.9	64	se.	8	3.6		0	5 ks			0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	29.86	758.4	29.88	758.9	65	18.3	90	e.	4	1.8		1 c	8 s	sw.	sw.	0.09	2.3	cloudy	A. Schneider.
Denison, Texas	29.23	742.4	30.01	762.2	74.4	23.6	76	n.	8	3.6			10 s			0.07	1.8	cloudy	J. McGlone.
Denver, Colorado	24.98	634.5	29.99	761.7	64.0	17.8	65	s.	6	2.7		0	0			0.28	7.1	clear	F. M. Neal.
Des Moines, Iowa	29.30	744.2	30.18	766.6	58	14.4	86	ne.	9	4.0		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.23	742.4	29.93	760.2	55.0	12.8	80	n.	16	7.2		4ck;cs	2 s			0.33	8.4	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.62	701.5	30.12	765.0	64.0	17.8	78	ne.	6	2.7		0	0			0.04	1.0	clear	W. M. Mattingly.
Dubuque, Iowa	29.43	747.3	30.11	764.8	57.4	14.1	77	nw.	4	1.8		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.48	748.8	30.20	767.1	62	16.7	67	n.	2	0.9		0	4 k		n.	0.03	0.8	fair	N. B. Conger.
Eagle Pass, Texas	29.20	741.7	29.99	761.7	77.0	25.0	60	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.47	646.9	30.02	762.5	57	13.9	57	calm	0	0		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.91	759.7	29.97	761.2	60.0	15.6	70	s.	4	1.8		0	0			0.01	0.3	clear	D. C. Murphy.
Elliott, Fort, Texas	27.40	695.9	30.04	763.0	64	17.8	70	n.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.47	672.3	30.07	763.8	70	21.1	45	ne.	5	2.2			10 ks		ne.	0.22	5.6	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.14	740.1	29.85	758.2	60	15.6	87	e.	3	1.3			10 n		ne.	0.10	2.5	light rain	Peter Wood.
Escanaba, Michigan	29.47	748.5	30.11	764.8	55	12.8	74	n.	12	5.4		3 k	0	nw.		0	0	clear	C. Dill.
Fredericksburg, Texas	28.28	718.3	29.98	761.5	78	25.5	71	calm	0	0		8 cs	0			0	0	cloudy	H. S. Miles.
Galveston, Texas	29.97	761.2	30.02	762.5	80	26.7	91	n.	14	6.3		1 c	9 ks	e.	w.	0	0	threatening	E. O'C. MacInerney.
Grand Haven, Michigan	29.36	745.7	30.01	762.2	58.0	14.4	78	n.	4	1.8		0	0			0.34	8.6	clear	W. A. Reid.
Grant, Fort, Arizona	25.36	644.1	29.93	760.2	68.4	20.2	63	ne.	3	1.3		1 c	1 s			0.02	0.5	clear	Robert C. Lord.
Hatteras, North Carolina	29.79	756.7	29.81	757.2	77.0	25.0	90	ne.	6	2.7		4 c	3 ks	ne.	w.	0.45	11.4	fair	R. M. Crawford.
Helena, Montana	26.01	660.6	30.07	763.8	71	21.7	51	sw.	2	0.9		0	6 s			0	0	fair	S. Wheaton.
Henrietta, Texas	29.14	740.1	30.12	765.0	79.0	26.1	82	n.	3	1.3		0	6 s			0.03	0.8	fair	J. W. Byram.
Huron, Dakota	28.88	733.5	30.20	767.1	57.2	14.0	83	n.	1	0.4		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.11	739.4	29.88	758.9	61	16.1	78	n.	10	4.5		0	10 ks		n.	0.78	19.8	cloudy	O. Schutze
Indianola, Texas	29.96	761.0	29.99	761.7	78.9	26.1	88	sw.	18	8.0		8 cs	0	n.		0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.87	733.3	29.99	761.7	75	23.9	71	se.	12	5.4		10 cs	0			0.14	3.6	cloudy	J. P. Sherry.
Jacksonville, Florida	29.87	758.7	29.91	759.7	80	26.7	88	sw.	12	5.4			10 s		sw.	0	0	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.59	700.8	30.00	762.0	68	20.0	65	se.	3	1.3		3 c	0	se.		0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.43	747.5	30.06	763.5	60.5	15.8	71	n.	12	5.4		0	0			0.56	14.2	clear	F. Z. Gosewisch
Key West, Florida	30.02	762.5	30.04	763.0	84.0	28.9	67	s.	4	1.8		2 c	2 k		s.	0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	29.84	757.9	29.86	758.4	70.0	21.1	94	e.	11	4.9			10 s		se.	0.17	4.3	cloudy	E. A. Beals.
Knoxville, Tennessee	28.82	732.0	29.82	757.4	69.3	20.7	92	sw.	8	3.6			10 s		sw.	inap.	inap.	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.43	747.5	30.18	766.6	57	13.9	64	n.	10	4.5		0	0			0	0	clear	S. C. Emery
La Mesilla, New Mexico	26.26	667.0	30.00	762.0	72.7	22.6	67	calm	0	0			10 s			0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.25	742.9	30.11	764.8	65	18.3	73	n.	12	5.4		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.26	743.2	30.07	763.8	74.0	23.3	40	e.	2	0.9			10 s			0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.61	752.1	29.92	760.0	73	22.8	84	w.	5	2.2		0	6 s			1.58	40.1	fair	W. U. Simons.
Los Angeles, California	29.62	752.3	30.01	762.2	59.8	15.4	70	w.	4	1.8			9 s			0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.25	742.9	29.80	756.9	64	17.8	84	n.	14	6.3			10 ks		n.	0.04	1.0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.13	739.9	29.80	756.9	69.0	20.6	76	se.	2	0.9			10 s			inap.	inap.	cloudy	W. R. Bushby.
Macon, Fort, North Carolina	29.80	756.9	29.81	757.2	77	25.0	90	se.	6	2.7			10 ks		sw.	0	0	cloudy	F. P. Chaffee.
Madison, Wisconsin	29.14	740.1	30.12	765.0	51	10.6	86	n.	13	5.8		0	0			0.37	9.4	clear	C. A. Shaw.
Maginnis, Fort, Montana																			H. W. Dodge.
McKavett, Fort, Texas	27.79	705.9	29.99	761.7	75	23.9	76	s.	6	2.7			10 s		s.	0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.44	747.8	30.14	765.5	58	14.4	65	nw.	10	4.5		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.52	749.8	29.85	758.2	74	23.3	82	w.	4	1.8		3 cs	0			inap.	inap.	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.32	744.7	30.05	763.3	55	12.8	74	nw.	15	6.7		0	0			0.15	3.8	clear	W. Line.

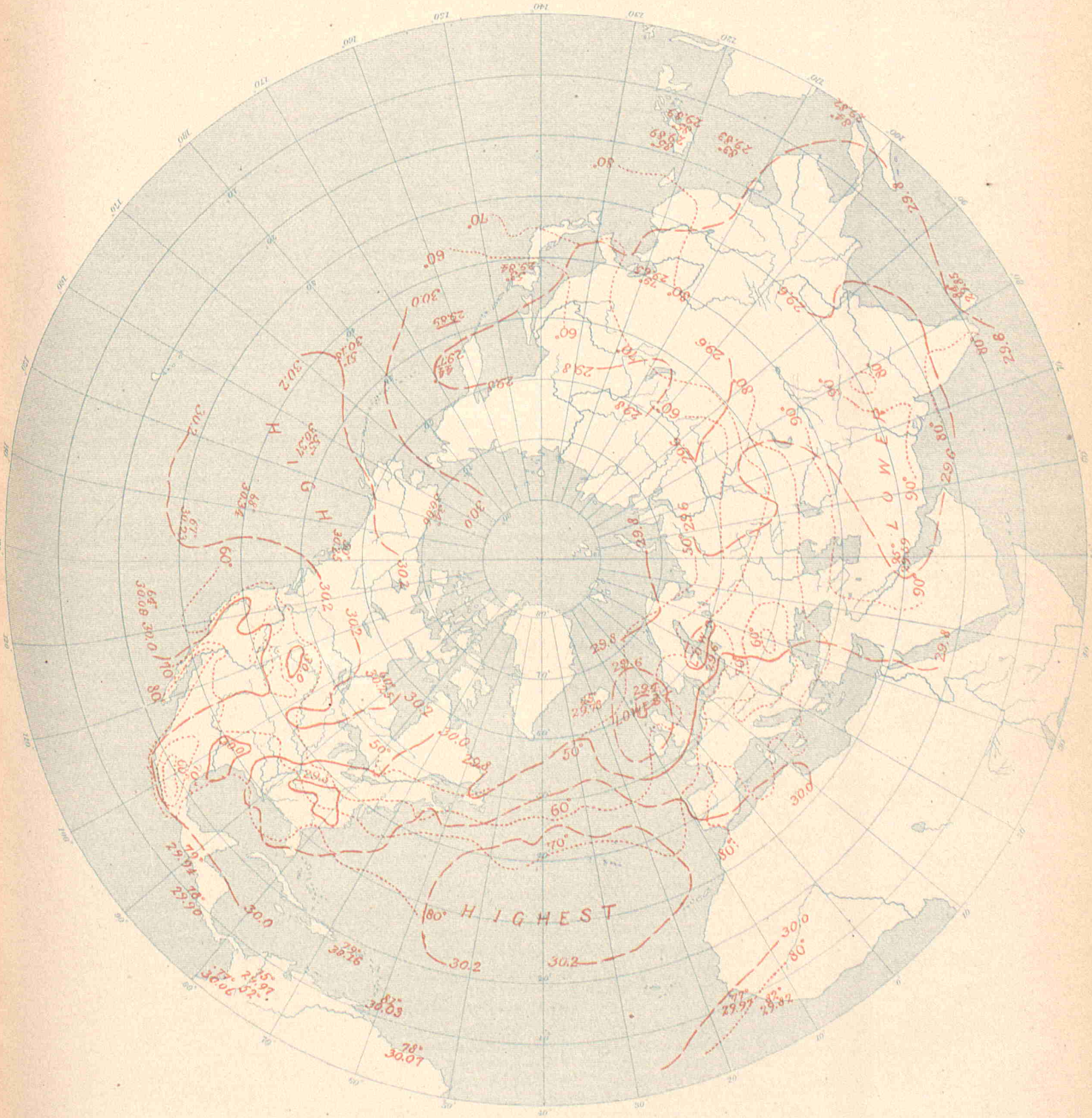
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.89	683.0	30.08	764.0	63	17.2	68	sw.	3	1.3		0	0			0	0	clear	J. H. Jones.
Mobile, Alabama	29.84	757.9	29.88	758.9	73	22.8	94	w.	4	1.8			10 s		w.	2.06	52.3	light rain	C. A. Read.
Montgomery, Alabama	29.59	751.6	29.81	757.2	76.0	24.4	90	sw.	3	1.3			10 s		sw.	0.43	10.9	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.23	742.4	30.19	766.8	55	12.8	93	nw.	2	0.9		0	0			inap.	inap.	clear	H. Bessant.
Morgantown, W. Virginia	28.83	732.3	29.83	757.7	60.0	15.6	90	ne.	1	0.4			10 n			0.42	10.7	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H	23.81	604.8	29.88	758.9	35.0	1.7	92	ne.	8	3.6		6 cs	3 k	ne.	ne.	0.21	5.3	cloudy	J. G. Linsley
Nashville, Tennessee	29.25	742.9	29.77	756.1	76.0	24.4	85	w.	6	2.7		2 ck	7 ks	w.	nw.	0.89	22.6	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.82	757.4	29.93	760.2	61.5	16.4	80	ne.	6	2.7		3 cs	sk.	w.		0	0	clear	J. H. Sherman.
New London, Connecticut	29.90	759.4	29.95	760.7	65	18.3	78	calm	0	0		10 k	0	sw.		0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.88	758.9	29.93	760.2	79.2	26.2	85	s.	4	1.8			10 s		s.	0.01	0.3	threatening	L. Dunne.
Newport, Rhode Island	29.90	759.4	29.96	761.0	67.8	19.9	76	sw.	2	0.9		3 ck	1 s	w.		0	0	fair	W. McGillivray.
New York, New York	29.75	755.6	29.92	760.0	64	17.8	73	ne.	18	8.0		3 cs	5 s	w.		0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	29.79	756.7	29.82	757.4	73	22.8	82	e.	10	4.5			10 ks		e.	inap.	inap.	cloudy	H. L. Kemp.
North Platte, Nebraska	27.35	694.7	30.15	765.8	65.6	18.7	78	calm	0	0		5 c; k	0			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.10	764.5	30.14	765.5	55.0	12.8	83	calm	0	0		4 cs	0	sw.		0	0	fair	J. Dascomb.
Ogdenamie, Pt. Barrow, Alas.	30.05	763.3	30.06	763.5	34.0	1.1	95	sse.	4	1.8			10 s		sw.	0.01	0.3	cloudy	P. H. Ray.
Omaha, Nebraska	29.05	737.9	30.18	766.6	62.9	17.2	87	n.	8	3.6		0	8 ks		n.	0	0	cloudy	A. Pollak.
Oswego, New York	29.59	751.6	29.91	759.7	59.0	15.0	79	se.	6	2.7		4 cs	4 s		s.	0	0	cloudy	S. W. Beall.
Palestine, Texas	29.51	749.5	30.05	763.3	74.0	23.3	83	ne.	6	2.7			10 ks		w.	0.32	8.1	cloudy	L. M. Pindell.
Pensacola, Florida	29.85	758.2	29.88	758.9	74.0	23.3	94	sw.	4	1.8			10 n		w.	1.16	29.5	light rain	M. McGauran.
Philadelphia, Pa	29.80	756.9	29.90	759.4	67	19.4	63	e.	7	3.1			10 s		nw.	inap.	inap.	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.22	462.8	30.00	762.0	38	3.3	73	nw.	8	3.6		1 k	0	w.		0.05	1.3	clear	L. M. Dey.
Pioche, Nevada	24.24	615.7	29.97	761.2	65.7	18.7	58	calm	0	0		5 k	0	s.		0.03	0.8	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	29.01	736.8	29.80	756.9	59.3	15.2	90	ne.	6	2.7			10 n		ne.	0.21	5.3	light rain	J. H. Bryce.
Poplar River, Montana	27.93	709.4						se.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	29.99	761.7	30.00	762.0	75.1	23.9	85	n.	21	9.4			10 s			0	0	threatening	M. Hermann.
Port Huron, Michigan	29.26	743.2	29.92	760.0	56.2	13.4	83	n.	14	6.3		9 cs	0	w.		0.06	1.5	cloudy	W. O. Bailey.
Portland, Maine	29.90	759.4	29.95	760.7	61.5	16.4	70	nw.	1	0.4		6 k	0	nw.		0.01	0.3	fair	W. W. Eichelberger.
Portland, Oregon	30.04	763.0	30.11	764.8	67.3	19.6	68	nw.	2	0.9			10 s		se.	0	0	cloudy	M. L. Hearne.
Prescott, Arizona	24.96	634.0	29.95	760.7	67	19.4	70	sw.	4	1.8		0	0			0.05	1.3	clear	J. McN. Wright.
Provincetown, Mass	29.94	760.5	29.97	761.2	66.5	19.2	73	sw.	2	0.9		2 cs	2 s	sw.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.00	762.0	30.01	762.2	84	28.9	70	sw.	18	8.0		7 c	2 ks	n.	sw.	0	0	cloudy	W. J. Evans.
Red Bluff, California	29.60	751.8	29.96	761.0	80.3	26.8	41	s.	1	0.4		0	8 s		s.	0	0	cloudy	J. M. Frantz.
Rio Grande City, Texas	29.78	756.4	30.00	762.0	76	24.4	69	se.	2	0.9		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	29.24	742.7	29.89	759.2	58	14.4	86	e.	4	1.8		8 c; k	fg.			0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.50	749.3	30.04	763.0	66.5	19.2	81	calm	0	0		8 k	0	sw.		0.15	3.8	cloudy	J. J. Nanry.
Sacramento, California	29.90	759.4	29.97	761.2	66.8	19.3	68	s.	7	3.1			8 s		s.	inap.	inap.	cloudy	J. A. Barwick.
St. Louis, Missouri	29.42	747.3	30.00	762.0	62.4	16.9	80	n.	17	7.6			10 ks		n.	0.15	3.8	cloudy	J. H. Webber.
St. Paul, Minnesota	29.34	745.2	30.18	766.6	57	13.9	80	nw.	2	0.9		3 k	0	ne.		0.01	0.3	clear	P. F. Lyons
St. Vincent, Minnesota	29.34	745.2	30.18	766.6	55	12.8	86	calm	0	0		0	0			0.03	0.8	clear	G. Kingsbury.
Salt Lake City, Utah	25.78	654.8	29.96	761.0	72	22.2	44	ne.	4	1.8		1 k	0			0	0	clear	J. Craig.
San Antonio, Texas	29.29	744.0	29.97	761.2	75.0	23.9	82	calm	0	0		2 cs	3 s			0	0	fair	T. J. Kenan.
San Diego, California	29.92	760.0	29.99	761.7	64.6	18.1	91	nw.	2	0.9		6 ck	2 ks	e.		0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.19	741.4	29.85	758.2	61.0	16.1	78	ne.	30	13.4			10 s		ne.	0.36	9.1	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.88	758.9	29.91	759.7	66.0	18.9	73	ne.	14	6.3		8 k	0	ne.		0	0	cloudy	B. A. Blundon.
San Francisco, California	30.01	762.2	30.08	764.0	55.5	13.1	93	sw.	7	3.1			fg.		w.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.52	597.4	30.02	762.5	61.5	16.4	53	ne.	5	2.2		2 ck	0			inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	29.78	756.4	29.87	758.7	81	27.2	69	sw.	6	2.7			10 s		sw.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.52	673.6	30.03	762.7	63	17.2	56	w.	4	1.8		6 k	0	w.		0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.74	755.4	29.97	761.2	75	23.9	97	w.	2	0.9			10 s			1.22	31.0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.90	734.0	30.10	764.5	73.5	23.1	65	n.	17	7.6		4 c	0	w.		0	0	fair	T. Cleary.
Silver City, New Mexico	24.51	622.5	29.97	761.2	69	20.6	51	w.	10	4.5		0	4 ks		calm	0	0	fair	J. B. Wallace.
Sitka, Alaska	30.19	766.8	30.25	768.3	49.5	9.7	84	e.	3	1.3			10 ks			0.24	6.1	threatening	J. J. McLean.
Smith, Fort, Arkansas	29.54	750.3	30.00	762.0	75.5	24.2	76	n.	6	2.7		5 cs	0	n.		0.02	0.5	fair	J. B. Campbell.
Smithville, North Carolina	29.76	755.9	29.79	756.7	81	27.2	88	sw.	8	3.6		7 cs	2 k	w.	s.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.09	713.5	30.07	763.8	63	17.2	73	calm	0	0		9 cs	0			0	0	cloudy	D. Moore.
Springfield, Illinois	29.36	745.7	30.02	762.5	58	14.4	80	n.	12	5.4		0	7 k		n.	0.27	6.9	clearing	T. B. Jennings.
Springfield, Massachusetts	29.83	757.7	29.96	761.0	64.0	17.8	78	n.	4	1.8		10 k	0	w.		0	0	cloudy	T. S. Outram.
Springfield, Mo	28.62	726.9	30.01	762.2	65	18.3	90	n.	8	3.6			10 ks		n.	inap.	inap.	cloudy	J. B. Marbury.
Starkville, Miss	29.34	745.2	29.81	757.2	76	24.4	90	sw.	12	5.4		4 ck	5 ks		sw.	0.52	13.2	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.36	720.3	30.14	765.5	60	15.6	87	e.	2	0.9		1 cs	0			0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.09	688.1	30.03	762.7	69.3	20.7	100	w.	8	3.6			10 s		w.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass	29.90	759.4	29.95	760.7	59.0	15.0	78	nw.	4	1.8		5 cs	0			0	0	fair	G. Liebmann.
Toledo, Ohio	29.22	742.2	29.89	759.2	57	13.9	74	n.	6	2.7		4 c	3 ks	ne.	n.	0.62	15.7	clearing	A. Buell.
Tucson, Arizona	27.61	701.3	29.93	760.2	77	25.0	82	calm	0	0		0	6 ks			0.17	4.3	fair	J. L. Whiteside.
Umatilla, Oregon	29.72	754.9	30.08	764.0	76	24.4	48	sw.	3	1.3		4 ck	3 s	w.		c	0	fair	J. Daly.
Uvalde, Texas	29.02	737.1	29.96	761.0	75	23.9	97	se.	1	0.4		6 c	0			0	0	fair	E. C. Imlay.
Verde, Fort, Arizona					74.9	23.8	39	sw.			1	4 k	0	s.		0	0	fair	D. Brooks.
Vicksburg, Mississippi	29.65	753.1	29.89	759.2	79	26.1	88	nw.	6	2.7		3 c	4 s		w.	inap.	inap.	fair	H. P. Brisbane.
Visalia, California	29.58	751.3	29.94	760.5	72	22.2	53	nw.	1	0.4		2 k	0			0	0	clear	W. L. Seward.
Washakie, Fort, Wyoming	24.73	628.1	30.06	763.5	60.0	15.6	67	w.	4	1.8		2 c; k	0			0	0	clear	T. M. Ambler.
Washington, D. C	29.72	754.9	29.83	757.7	68.3	20.2	77	e.	4	1.8			10 ks		se.	inap.	inap.	cloudy	B. M. Pursell.
West Las Animas, Colorado	26.31	668.3	30.07	763.8	62	16.7	81	calm	0	0		0	0			0	0	clear	F. W. Brandenburg.
Williamsport, Pa	29.28	743.7	29.86	758.4	59	15.0	87	e.	6	2.7			10 n		e.	0.42	10.7	light rain	B. F. Hough.
Wilmington, N. Carolina	29.76	755.9	29.81	757.2	76	24.4	97	calm	0	0			10 ks		w.	0.40	10.2	threatening	A. T. Sherwood.
Winnemucca, Nevada	25.81	655.6	30.03	762.7	63	17.2	63	calm	0	0		0	1 s		sw.	inap.	inap.	clear	J. Grover.
Yankton, Dakota	29.06	738.1	30.33	770.4	60	15.6	65	calm	0	0		0	0			0	0	clear	J. H. Attield.
Yuma, Arizona	29.72	754.9	29.86	758.4	89.0	31.7	52	s.	6	2.7			10 n		s.	0.20	5.1	thund'r st'm	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.10	561.3			52.0	11.1	71	ne.	1	0.4		4 ck	2 s	ne.	nw.	0.06	1.5	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.02	762.5	30.03	762.7	81	27.2	95	e.				10 k	10 ks			1.20	30.5	cloudy	J. A. Racker.
Buenaventura, U. S. C	30.03	762.7	30.06	763.5	77	25.0	95	ne.	4	1.8			10 n		n.	0.60	15.2	raining	J. I. Plume.
Kingston, Jamaica, W. I	30.05	763.3	30.06	763.5	80.3	26.8	83	calm	0	0		1 cs	0			0	0		Robert Johnston.
Magua, San Domingo, W. I					76	24.4		e.			1	0	1 k		se.	1.56	39.6		S. M. Pike.
Navassa	30.02	762.5	30.10	764.8	81	27.2	78	e.	2	0.9		5 k	6 s	e.	e.	0	0	cloudy	F. M. Everett.
Paramaribo, S. A	30.07	763.8	30.07	763.8	78	25.6	86	se.			2	4 c	5 k	e.	e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.41	747.0	29.97	761.2	75	23.9	89	s.			1	1 c	0	s.		0	0	clear	Francisco J. Cisneros.
Rivas, Nicaragua, C. A							96	ne.			1	0	1 ks		ne.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I	30.04	763.0	30.06	763.5	82	27.8	70	calm	0	0		3 ck	0			0	0	fair	Robert Mason.
York Factory, B. A	30.19	766.0	30.25	768.3	60.0	15.6	82	se.	15	6.7		0	2 s		se.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, S. 28° 51′, E. 10° 27′	30.34	779.6	63	17.2	78	ssw.			1-2		7							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.87	758.7	76	24.4	90	wnw.			4		0					2	wnw	misty
H. M. S. Amethyst, Montevideo, Uruguay	30.21	767.3	43	6.1	85	nnw.			2		1	sw.						blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.92	760.0	72	22.2		n.			2									blue sky.
H. M. S. Bacchante, N. 38° 36′, E. 7° 14′	30.03	762.7	74	23.3	85	nw.			2		0					2	nw.	misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.30	769.6	60	15.6		ese.			2		8							raining.
H. M. S. Champion, N. 21° 08′, E. 162° 10′			80	26.7	100	e.			3		6					3	e.	d. clouds.
H. M. S. Comus, N. 36° 42′, E. 143° 40′	29.83	757.7	70	21.1	75	ne.			3		4							d. clouds.
H. M. S. Diamond, S. 9° 21′, E. 156° 12′	29.91	759.7	82	27.8	83	ese.			2-4		3					2	ese.	d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.17	766.3	77	25.0		ese.			2		4	e.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.13	765.3	79	26.1	88	ssw.			3-4		3	ssw.						d. clouds.
H. M. S. Dwarf, S. 33° 30′, W. 59° 55′	30.20	767.1	42.5	5.8	100	calm			0		10							foggy.
H. M. S. Eclipse, S 9° 20′, E. 47° 24′	30.06	763.5	78	25.6		ese.			5		4					3	ese.	d. clouds.
H. M. S. Emerald, S. 24° 30′, W. 17° 40′	30.24	768.1	71	21.7	100	nnw.			1-3		3	nnw.				2	nnw.	d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.75	755.6	83.5	28.6	72	sw.			2		9	calm						d. clouds.
H. M. S. Espiegle, S. 16° 40′, E. 168° 08′	30.03	762.7	71	21.7	80	se.			1-2		3	nw.				1	sw.	d clouds.
H. M. S. Fawn, S. 25° 59′ E. 32° 48′	30.06	763.5	73.5	23.1	76	ene.			1		1							blue sky.
H. M. S. Gannet, S. 18° 05′, W. 74° 45′	30.16	760.1	60.5	15.8	72	se.			3		9					2	se.	d. clouds.
H. M. S. Garnet, S. 23° 40′, W. 21° 50′	30.24	768.1	73	22.8	81	nnw.			5		6					2	nnw.	d. clouds
H. M. S. Griffon, N. 50° 08 W. 56° 42′	29.88	758.9	50	10.0	78	w.			4									overcast.
H. M. S. Iron Duke, N. 36° 16′, E. 142° 07′	29.90	759.4	68	20.0	90	nne.			2		0					1	nne.	blue sky.
H. M. S. Kingfisher, N. 30° 20′, W. 116° 30′	30.01	762.2	64	17.8		nw.			2-3		3					2	nw.	d. clouds.
H. M. S. Lark, S. 10° 40′, E. 162° 22′	29.96	761.0	80.3	26.8	98	se.			5		8					3	se.	showery.
H. M. S. Liffey, Coquimbo, Chili	30.15	765.8	50.5	10.3		calm			0		10							foggy.
H. M. S. Magpie, N. 34° 52′, E. 139° 43′	29.89	759.2	72.7	22.6	81	sw.			1		9					3	se.	d. clouds.
H. M. S. Minotaur, Malta, Mediterranean	29.95	760.7	77	25.0	74	nw.			3		2	wnw.						d. clouds.
H. M. S. Nelson, S. 36° 50′ E. 174° 49′	29.63	752.0	58	14.4	81	wsw.			1		9	e.						showery.
H. M. S. Northampton, Halifax, Nova Scotia	29.94	760.5	58	14.4	78	ssw.			3		5	wsw.						d. clouds.
H. M. S. Pegasus, N. 1° 27′, E. 103° 47′	29.82	757.4	83.5	28.6	87	se.			1		8							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Is'd	30.15	765.8	67	19.4	90	se.			2		9	ese.						d. clouds.
H. M. S. Rocket, Vancouver Island, B. C.	30.15	765.8	52	11.1	93	calm			0		2							d. clouds.
H. M. S. Sappho, S. 24° 54′ W. 133° 00′	29.83	757.7	67.5	19.7		nnw.			5-6		9	nw.				6	nw.	squally.
H. M. S. Swiftsure, Rio de Janeiro, Brazil	30.10	766.1	73.5	23.1	95	nne.			1		10	wnw.						raining.
H. M. S. Sylvia, Montevideo, Uruguay	30.25	768.3	40.5	4.7	83	nnw.			2-3		0							blue sky.
H. M. S. Tenedos, N. 46° 08′ W. 60° 09′	29.94	760.5	58.5	14.7	78	sw.			3-4		6							squally.
H. M. S. Thetis, S. 12° 40′ W. 78° 05	30.06	763.5	65	18.3	89	sse.			4		10					3	sse.	overcast.
H. M. S. Triumph, S. 34° 15′, W. 72° 22	30.24	768.1	54	12.2	100	calm			0		10	calm				2	sw.	foggy.
H. M. S. Woodlark, Off Bassorah, Asiatic Turkey	29.49	749.0	94.5	34.7	58	nw.			2-3		0							blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.10	764.4	79.0	26.1	87	w.			1		1					2		blue sky.
Tamega, Macao, China	29.86	758.5	85.6	29.8	79	s.			2		3			¼ h'r	¼ h'r			d. clouds.
Swedish Naval.																		
Saga, N. 61° 51′, E. 0° 05′	29.55	750 5	54.3	12.4	93	e.			5		10							raining.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.81	757.2	75	23.9	90	sw.	7	3.1			10		sw.	0.50	12.7			light rain.
Navy Yard, Portsmouth, N. H.	29.95	760.7	62	16.7	77	calm	0	0			5			0	0			hazy.
Naval Hospital, Yokohama, Japan*	29.72	754.9	72	22.2	88	s.			1		10		w.	0.07	1.8			cloudy.
Adams, Mare Island, Cal	30.06	763.5	59	15.0	94	w.			2		10		w.	0	0	sm'h		cloudy.
Alaska, Callao, Peru	30.00	762.0	59	15.0	94	calm			0		10			0	0	sm'h		cloudy.
Alert, N. 45° 15′, W. 177° 55′*	30.03	762.7	51	10.6	93	ese.			3		10		se.	0	0	sm'h		cloudy.
Alliance, Boston, Mass†	29.96	761.0	64	17.8	73	e.			1		5			0	0			fair.
Ashuelot, Yokohama, Japan*	29.78	756.4	73	22.8	85	s.			2		10		sse.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.23	767.8	64	17.8	100	wnw.	4	1.8			10		calm	0.45	11.4			raining.
Colorado, New York, N. Y.	29.89	759.2	65	18.3	89	ne.	4	1.8			10		calm	0	0			cloudy.
Constellation, N. 38° 13′, W. 73° 04′*	29.87	758.7	68	20.0	100	e.			2		5		e.			sm'h		fair.
Enterprise, N. 38° 00′ W. 74° 55′*	29.86	758.4	70	21.1	100	e.			4		5		ne.			sm'h		fair.
Essex, Tamar Bay, Patagonia	29.27	743.4	48	8.9	85	w.			3-6		10		w.			sm'h	w.	overcast.
Franklin, Norfolk, Va.	29.86	758.4	72	22.2	90	ese	12	5.4			8		wnw.	0	0			fair.
Galena, Alexandria, Egypt	29.89	759.2	77	25.0	100	nw.			2		0					sm'h		clear.
Independence, Mare Island, Cal	30.07	763.8	58	14.4	88	w.			3		8		w.	0	0			cloudy.
Iroquois, San Francisco, Cal	30.08	764.0	56	13.3	94	wsw.			2		10			0	0			foggy.
Kearsage, Norfolk, Va.	29.84	757.9	72	22.2	100	e.			3		10		w.					cloudy.
Lackawanna, Callao, Peru*	30.07	763.8	60	15.6	88	ese.			1		10							misty.
Lancaster, Alexandria, Eyypt*	29.84	757.9	80	26.7	82	n.			3		0			0	0			clear.
Marion, S. 34° 54′, W. 56° 13′	30.19	766.8	41	5.0	100	nw.			2		0					sm'h		clear.
Michigan, Detroit, Michigan	29.85	758 2	57	13.9	81	nne.			3		2		nne.					fair.
Minnesota, Newport, R. I.	29.99	761.7	68	20.0	79	ne.	2	0.9			5		w.					
Monocacy, N. 37° 15′, E. 123° 05′	29.81	757.2	71	21.7	90	wsw.			3		10		calm			sm'h		drizzling.
New Hampshire, Newport, R. I.	29.98	761.5	61	16.1	94	ne.			1		2		wnw.			sm'h		clear.
Nipsic, Zante, Greece*	29.87	758.7	81	27.2	60	n.			2		5					sm'h		fair.
Onward. Callao, Peru†	30.17	766.3	59	15.0	94	ene.			1		10					long	w.	misty.
Palos, Kobe, Japan*	29.77	756.1	76	24.4	86	calm			0		5		sw.					fair.
Passaic, Washington, D. C.	29.89	759.2	70	21.1	95	e.			1		10		s.					cloudy.
Pensacola, S. 1° 40′, W. 81° 41′*	29.87	758.7	65	18.3	94	s.			3		10		s.	0	0	long	s.	cloudy.
Portsmouth, N. 39° 33′, W. 9° 39′*	30.07	763.8	62	16.7	100	n.			3		2							clear.
Powhatan, Key West, Florida	30.03	762.7	85	29.4	76	s.			2		5		s.					fair.
Quinnebaug, Alexandria, Egypt	29.81	757.2	80	26.7	91	nw.			3		0					sm'h		clear.
Ranger, Mare Island, Cal.	30.08	764.0	60	15.6	88	wsw.			3		8		se.	0	0			cloudy.
Richmond, Yokohama, Japan*	29.81	757.2	74	23.3	90	se.			1		10			0.05	1.3			cloudy.
Saratoga, N. 39° 34′, W. 9° 40′	30.05	763 3	64	17.8	78	nne.			3-4		8		ne.	0	0	mod.	ne.	cloudy.
St. Louis, League Island, Pa.	30.15	765.8	65	18.3	94	ne.			2		8		ne.	0	0			cloudy.
Swatara, Yokohama, Japan*	29.74	755.4	75	23.9	77	se.			2		10		s.			sm'h		cloudy.
Tennessee, New York, N. Y.	29.96	761.0	68	20.0	90	ene.	16	7.2			8			inap.	inap			cloudy.
Vandalia, Portsmouth, N. H*	29.94	760.5	65	18.3	84	nw.			1		8		calm					fair.
Wabash, Boston, Mass.	29.97	761.2	65	18.3	89	ne.	2	0.9			5		ne.					fair.
Wachusetts, Highfield Harbor, Alaska	30.28	769.1	49	9.4	93	se.			1		10		calm			sm'h		rainy.
Wyoming, Port Royal, S. C*	29.72	754.9	76	24.4	82	sw.	10	4.5			8		s.	0	0			cloudy.
Yantic, off Bangor, Maine	29.96	761.0	70	21.1	57	calm			0		2							clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.			
Allan Line.																		
S. S. Grecian, Montreal, Canada*	29.93	760.2	72	22.2	.....	ne.	.....	.....	2	.....	4?	.....	w.	0	0	.....	.....	cloudy.?
S. S. Nova Scotian, Off York Spit, Va.	29.75	755.6	72	22.2	.....	ese.	.....	.....	3	.....	10	.....	ese.	.....	.....	.....	.....	cloudy.
S. S. Scandinavian, N. 51° 44′ W. 26° 27′*	29.95	760.7	54	12.2	.....	wnw.	.....	.....	4	.....	10	.....	wnw.	sh's	sh's	mod.	short	overcast.
S. S. Waldensian, N. 51° 27′, W. 29° 32′*	30.13	765.3	58	14.4	.....	sw.	.....	.....	2	.....	10	.....	sw.	0	0	light	nne.	overcast.
American Steamship Company.																		
S. S. Lord Clive, N. 44° 42′, W. 39° 34′*†	30.10	764.5	.....	.....	.....	ssw.	.....	.....	3	.....	7	.....	wsw.	mist	mist	slight	wsw.	cloudy.
S. S. Pennsylvania, N. 49° 54′, W. 24° 18′†	30.06	763.5	54	12.2	.....	nnw.	.....	.....	4	.....	10	.....	w.	.....	.....	r'gh	sw.	overcast.
Anchor Line.																		
S. S. Ethiopia, N. 54° 27′, W. 16° 26′	29.47	748.5	55	12.8	93	wnw.	.....	.....	5	.....	10	.....	wnw.	6 h'r	6 h'r	r'gh	wnw.	showery.
S. S. Gallatia, N. 43° 36′ W. 9° 24′†	30.14	765 5	61.3	16.3	.....	ssw.	.....	.....	4	.....	9	.....	ssw.	1 h'r	1 h'r	sm'h	nw.	drizzling.
S. S. Utopia, N. 42° 07′ W. 53° 50′†	30.36	771.1	60	15.6	100	w.	.....	.....	2	.....	2	.....	sw.	4 h'r	4 h'r	slight	.....	clear.
Atlas Line.																		
S. S. Alisa, N. 23° 38′, W. 74° 23′†	30.12	765.0	83	28.3	83	e.	.....	.....	3	.....	2	.....	ene.	0	0	light	e.	fair.
S. S. Alvena, N. 24° 51′ W. 74° 13′†	30.00	762.0	83	28.3	79	e.	.....	.....	2	.....	5	.....	e.	0	0	sm'h	.....	fine.
S. S. Alvo, Kingston, Jamaica, W. I.	30.06	763.5	.....	.....	.....	ne.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Boston and Halifax Line.																		
S. S. Carroll, Boston, Mass†	29.93	760.2	.....	.....	.....	ese.	.....	.....	3	.....	.....	.....	se.	0	0	.....	.....	fine.
British Meteorological Office.																		
Bk. Arran, S 10° 42′, W. 78° 46′	29.90	759.4	74.5	23.6	87	sse.	.....	.....	6	.....	6?	.....	.....	.....	.....	.....	.....	overcast?
S. S. Auckland, N. 19° 55′, W. 25° 22′	30.16	766.1	74	23.3	81	nne.	.....	.....	5	.....	7	.....	.....	.....	.....	.....	.....	blue sky.
S. Baroda, S. 25° 31′, E. 47° 17′	30.23	767.8	71.5	21.9	85	nne.	.....	.....	5	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
British Merchant, N. 48° 35′, W. 7° 37′*†	29.74	755.4	59.5	15.3	94	wsw.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. City of Agra, N. 20° 29′, W. 21° 49′	30.15	765.8	71	21.7	93	ne.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Glencairn, N. 17° 00′, W. 35° 08′	30.18	766.6	76	24.4	81	ne.	.....	.....	6	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Gordon Castle, N. 32° 26′, E. 29° 50′	29.83	757.7	80.5	26.9	74	wnw.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Markland, S. 27° 28′, W. 133° 05′	29.87	758.7	61.	16.1	94	e.	.....	.....	8	.....	8	.....	.....	.....	.....	6	e.	raining.
May Hulse, S. 26° 28′, W. 23° 38′	30.20	767.1	69	20.6	79	wsw.	.....	.....	2	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
S. Oamarn, S. 27° 56′, E. 44° 08′	30.18	766.6	73.5	23.1	75	n.	.....	.....	2	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Rosette, N. 15° 51′, W. 114° 07′	29.83	757.7	82.5	28.1	83	e.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	blue sky.
Cunard Line																		
S. S. Gallia, N. 50° 02′, W. 23° 30′	30.01	762.2	60	15.6	76	nw.	.....	.....	6	.....	5	.....	w.	0	0	mod.	nw.	fine.
S. S. Marathon, N. 47° 08′, W. 38° 00′	30.08	764.0	60	15.6	.....	wsw.	.....	.....	3	.....	10	.....	w.	0	0	r'gh	sw.	foggy.
S. S. Scythia, N. 46° 12′, W. 36° 40′	30.10	764.5	70.5	21.4	95	sw.	.....	.....	3	.....	10	.....	.....	0	0	mod.	wsw.	overcast.
General Trans-atlantic Company.																		
S. S. France, N. 48° 13′, W. 24° 30′.†	29.99	761.7	57.2	14.0	.....	nw.	.....	.....	5	ck	.....	wnw.	.....	0	0	h'vy	w.	clear.
S. S. Ville de Marseilles, Marseilles, France*†	29.95	760.7	79	26.1	.....	wsw.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
Guion Line.																		
S. S. Arizona, N. 50° 17′, W. 26° 12′	30.10	764.5	54	12.2	.....	wnw.	.....	.....	4	.....	5	.....	wnw.	0	0	long	wnw.	
S. S. Wisconsin, N. 47° 50′, W. 30° 00′	30.04	763.0	62	16.7	88	se.	.....	.....	2	.....	10	.....	s.	6 h'r	6 h'r	sm'h	.....	rainy.
Hamburg American Packet Company.																		
S. S. Bohemia, N. 49° 32′, W. 8° 05′†	29.79	756.7	.....	.....	.....	wsw.	.....	.....	4	.....	3	.....	w.	3 h'r	3 h'r	mod.	w.	
S. S. Cimbria, N. 41° 16′, W. 46° 53′	30.25	768.3	75	23.9	.....	sw.	.....	.....	4	.....	10	.....	sw.	0	0	mod.	sw.	cloudy.
S. S. Gellert, N. 49° 21′, W. 24° 30′	30.07	763.8	67	19.4	.....	nw.	.....	.....	3	.....	10	.....	nw.	0	0	long	nw.	cloudy.
S. S. Herder, N. 40° 19′, W. 69° 21*†	30.08	764.0	74	23.3	.....	sw.	.....	.....	1	.....	1	.....	ssw.	1 h'r	1 h'r	sm'h	w.	clear.
S. S. Silesia, N. 50° 08′, W. 3° 22′†	29.89	759.2	.....	.....	.....	ssw.	.....	.....	6	.....	10	.....	sw.	0	0	4	ssw.	overcast.
Lampert and Holt's Line.																		
S. S. Hevelius, N. 44° 00′, W. 11° 30′*†	30.16	766.1	66	18.9	.....	wnw.	.....	.....	4	.....	3	.....	wnw.	0	0	sm'h	.....	clear.
Mallory Line.																		
S. S. Colorado, N. 30° 47′. W. 80° 31′†	29.90	759.4	80	26.7	.....	sw.	.....	.....	4	.....	5	.....	sw.	0	0	mod.	sw.	fair.
Merchants' Express Line.																		
S. S. Freja, N. 34° 14′. W. 74° 01′†	29.90	759.4	80	26.7	91	s.	.....	.....	6	.....	.....	.....	sw.	6 h'r	6 h'r	mod.	ssw.	squally.
Merchants' Steamship Company.																		
S. S. Glenfyne, Santos, Brazil	29.73	755.1	.....	.....	.....	var.	.....	.....	4	.....	.....	.....	w.	0	0	.....	.....	fine.
S. S. Glenapp, N. 20° 14′, W. 59° 00′†	30.18	766.6	.....	.....	.....	ene.	.....	.....	3	.....	2	.....	ene.	0	0	sm'h	.....	fine.
National Line.																		
S. S. Canada, N. 40° 59′, W. 52° 15′†	30.20	767.1	71	21.7	.....	s.	.....	.....	2	.....	4	.....	var.	0	0	sm'h	.....	clear.
S. S. Denmark, London, Eng.	29.85	758.2	63	17.2	.....	ssw.	.....	.....	5	.....	10	.....	ssw.	0	0	.....	.....	cloudy.
S. S. Erin, Liverpool, Eng.	29.91	760.5	58	14.4	.....	wnw.	.....	.....	6	.....	10	.....	wnw.	4 h'r	4 h'r	.....	.....	showery.
S. S. Greece, N. 44° 22′ W 39° 00′	30.12	765.0	.....	.....	.....	sw.	.....	.....	2	.....	5	.....	sw.	0	0	sm'h	sw.	
New York and Cuba Mail Steamship Company.																		
S. S. Santiago, St. Jago, Cuba, W. I.†	30.10	764.5	81	27.2	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	fine.
New York, Havana and Mexican Mail.																		
S. S. City of Alexandria, Vera Cruz, Mexico†	30.17	766.3	80	26.7	86	calm	.....	.....	0	.....	2	.....	ene.	0	0	.....	.....	fair.
S. S. City of Washington, N. 23° 10′ W. 82° 22′*†	30.25	768.3	84	28.9	.....	calm	.....	.....	0	.....	2	.....	.....	0	0	.....	.....	fine.
North German Lloyd.																		
S. S. America, Off St. Catherine, Isle of Wight*	29.77	756.1	59.9	15.5	.....	sw.	.....	.....	4	.....	10	.....	sw.	0		sm'h	.....	overcast.
S. S. Habsburg, N. 46° 38′, W. 31° 56′	30.10	764.5	63.5	17.5	.....	sse.	.....	.....	2	.....	10	.....	.....	7 h'r	7 h'r	mod.	w.	raining.
S. S. Hermann, N. 47° 28′, W. 29° 55′	30.14	765 5	60.8	16.0	.....	s.	.....	.....	3	.....	7	.....	wsw.	0	0	long	w.	foggy.
S. S. Leipzig, N. 40° 53′, W. 52° 24′	30.26	768.3	74.0	23.3	90	calm	.....	.....	0	.....	5	.....	w	0	0	mod.	wnw.	fair.
S. S. Mosel, Southampton, Eng.	29.95	760.7	54.5	12.5	.....	wnw.	.....	.....	5	.....	7	.....	w.	0	0	.....	.....	cloudy.
S. S. Ohio, Bremerhaven, Germany	29.91	759.7	.....	.....	.....	n.	.....	.....	3-4	.....	4	.....	ne.	0	0	.....	.....	fair.
S. S. Rhien, N. 41° 04′, W. 56° 33′	30.19	766.8	.....	.....	.....	s.	.....	.....	1	.....	2	.....	sw.	0	0	mod.	sw.	clear.
S. S. Saller, N. 39° 28′, W. 66° 55′	30.03	762 7	59.9	15.5	.....	nw.	.....	.....	2	.....	10	.....	w.	2 h'r	2 h'r	mod.	w.	light rain.
Occidental and Oriental Steamship Company.																		
S. S. Arabic, N. 22° 20′, E. 115° 09′*†	29.73	755.1	83	28.3	91	sse.	.....	.....	3	.....	2	.....	sw.	0	0	sm'h	.....	blue sky.
S. S. Belgic, San Francisco, Cal†	30.14	765.5	57	13.9	81	sw.	.....	.....	5	.....	5?	.....	sw.	.....	.....	.....	.....	cloudy.?
S. S. Coptic, N. 36° 02′, E. 146° 52′	29.85	758.2	66.0	18.9	?	ne.	.....	.....	2	.....	3	.....	ne.	0	0	.....	.....	blue sky.
S. S. Gaelic, N. 47° 16′, W. 158° 49′†	30.37	771.4	55	12.8	38	e.	.....	.....	2	.....	6?	.....	ese.	.....	.....	light	e.	overcast.?
S. S. Oceanic, N. 22° 14′, E. 114° 11′*	29.77	756.1	85	29.4	83	sw.	.....	.....	3	.....	5	.....	sw.	.....	.....	sm'h	.....	fine.
Ocean Steamship Company.																		
S. S. City of Augusta, Savannah, Ga†	29.88	758.9	.....	.....	.....	ssw.	.....	.....	1	.....	8	.....	sw.	0	0	.....	.....	clear.?
S. S. City of Columbus, Savannah, Ga†	29.96	761.0	.....	.....	.....	sw.	.....	.....	3	.....	10	.....	sw.	0	0	.....	.....	cloudy.
S. S. Seminole, Boston, Mass†	30.12	765.0	64	17.8	89	wnw.	.....	.....	3	.....	2	.....	sw.	0	0	.....	.....	fair.
Oregon Railway and Navigation Company.																		
S. S. Oregon, Columbia River, Oregon†	30.02	762.5	61	16.1	88	nw.	.....	.....	1	.....	5	.....	nw.	.....	.....	.....	.....	fair.
Pacific Coast Steamship Company.																		
S. S. Ancon, San Francisco, Cal†	30.04	763.0	55	12.8	93	w.	.....	.....	2	.....	10	.....	w.	.....	.....	.....	.....	foggy.
S. S. State of California, Portland, Oregon†	30.13	765.3	66	18.9	73	calm	.....	.....	0	.....	4	.....	.....	.....	.....	.....	.....	fair.
S. S. Victoria, Nanaimo, Vancouver's I'd.†	30.04	763.0	62	16.7	83	w.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Pacific Mail Steamship Company.																		
S. S. Australia, Sydney, N. S. W.	30.23	767.8	60	15.6	88	sw.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	misty.
S. S. City of New York, N. 31° 13′, W. 135° 21′†	30.23	767.8	67	19.4	84	nw.	.....	.....	3	.....	8	.....	n.	0	0	sm'h	.....	cloudy.
S. S. City of Pekin, Yokahama, Japan†	30.01	762.2	70	21.1	90	sw.	.....	.....	2	.....	10	.....	sw.	0	0	sm'h	.....	overcast.
S. S. City of Sydney, Sydney, N. S. W.†	30.06	763.5	50	10.0	72	w.	.....	.....	4	.....	5?	.....	w.	0	0	sm'h	.....	cloudy.?
S. S. City of Tokio, N. 40° 52′, W. 141° 29′†	30.44	773.2	68	20.0	79	s.	.....	.....	3	.....	10	.....	n.	0	0	mod.	n.	fair.
S. S. Colon, N. 30° 24′, W. 73° 57′†	30.08	764.0	80	26.7	.....	ssw.	.....	.....	5	.....	3	.....	sw.	0	0	mod.	sw.	fair.
S. S. Colima, N. 13° 48′, W. 90° 33′.†	29.94	760.5	79	26.1	86	n.	.....	.....	3	.....	3	.....	ne.	0	0	small	se.	fair.
S. S. Granada, N. 10° 19′ W. 86° 09′†	29.90	759.4	78	25.6	100	nne.	.....	.....	5	.....	2	.....	n.	0	0	mod.	nne.	clear.
S. S. Zealandia, N. 23° 26′, W. 154° 29′	30.18	766.6	75	23.9	90	ne.	.....	.....	4	.....	5	.....	ne.	.....	.....	short	ne.	fine.
Quebec Steamship Co.																		
S. S. Muriel, St. Lucia, W. I.	29.96	761.0	81	27.2	.....	ene.	.....	.....	3	.....	2	.....	.....	shr's	shr's	sm'h	.....	fine.
Red Star Line.																		
S. S. Belgenland, Antwerp, Belgium†	29.79	756.7	66.	18.9	74	calm	.....	.....	0	.....	5	.....	calm	0	0	.....	.....	
S. S. Rhynland, N. 49° 27′, W 16° 05′	29.86	758.4	58	14.4	82	wnw.	.....	.....	6	.....	9	.....	wnw.	0	0	mod.	wnw.	cloudy.
S. S. Switzerland, N. 43° 40′, W. 41° 23′†	30.27	768.8	.....	.....	.....	sw.	.....	.....	3	.....	8	.....	sw.	0	0	mod.	sw.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
RED STAR LINE—Continued.																		
S. S. Vaderland, N. 48° 44′ W. 16° 04′	29.86	758.4	62	16.7	77	nnw.			5		10		nw.	0	0	mod		cloudy.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 43° 50′, W. 46° 20′*	30.20	767.1	63.5	17.5	90	calm			0		3		nw.	22 h'r	22 h'r			clear.
S. S. W. A. Scholten, N. 49° 33′, W. 13° 40′	29.69	754.1	60.2	15.7	88	wnw.			6		9		wnw.	9 h'r	9 h'r	r'gh	w.	raining.
STATE LINE.																		
S. S. State of Florida, N. 41° 52′, W. 45° 57′	30.17	766.3	74	23.3		wnw.			4		10		wnw.	2 h'r	2 h'r	mod.	wnw.	cloudy.
S. S. State of Indiana, N. 40° 58′, W. 62° 36′†	30.39	771 9	73	22.8		s.			2		10		w.	0	0	sm'h		
THINGVALLA LINE.																		
S. S. Thingvalla, N. 55° 44′, W. 25° 27′†	30.12	765.0	54.5	12.5		nw.			4		8		nw.	1 h'r	1 h'r	cross		covered.
WARREN LINE.																		
S. S. Iowa, N. 45° 30′, W. 36° 03′*†	30.30	769.6	66	18.9		wsw.			4		10		wsw.	1 h'r	1 h'r	mod.	wsw.	cloudy.
WHITE STAR LINE.																		
S. S. Baltic, N. 41° 20′, W. 52° 01′†	30.38	771.6	73	22.8	85	s.			2		7		wsw.	0	0	mod.	sw.	d. clouds.
S. S. Britannic, N. 46° 36′, W. 40° 00′†	30.09	764.3	65	18.3	94	wnw.			4		8		nw.			mod.	w.	d. clouds.
S. S. Celtic, New York, N. Y†	29.99	761.7	68	20.0	74	ene.			3		10		ne.	0	0			cloudy.
S. S. Republic, N. 44° 48′ W. 40° 58′†	30.33	770.4	69	20.6	95	w.			3		10		wnw.	4 h'r	4 h'r	mod.	sw.	misty.
WILSON LINE.																		
S. S. Romano, N. 40° 43′, W. 53° 04′	30.19	766.8	74	23.3		sw.			1		5?		sw.	0	0	sm'h		clear.?
MISCELLANEOUS.																		
Schr. Addie Fuller, Bath, Me†	30.12	765.0	63	17.2	67	calm			0	5 c	0	w.		0	0			fair.
Schr. Ajax, Indianola, Texas						s.			3		5		s.	0	0			fair.
Bk. Alpha, New York, N. Y†	29.89	759.2	70	21.1		ene.			2		2		nw.	0	0			fair.
Schr. Annie Lewis, N. 28° 38′, W. 93° 16′†	30.13	765.3	84	28.9		sw.			4		8		sw.	0	0	short	sw.	cloudy.
Bk. Anna Thorman, S. 34° 41′, W. 15° 07′	30.12	765.1	61.5	16.4	84	w.			5		10k;n		wnw.	1 h'r	1 h'r	long	w.	misty.
S. S. Antonio Lopez, Barcelona, Spain	29.97	761.2	76	24.4	69	sw.			6		3			0	0			fair.
Bk. Argonaut, N. 55° 40′, E. 2° 42′*†	29.79	756.7	60.4	15.8		ssw.			5		5		sw.	0	0	mod	sw.	hazy.
Schr. Asa Eldridge, Punta Rassa, Fla†	30.19	766.8				wsw.			3		5		wsw.	0	0	sm'h		fair.
Bk. Aureola, S. 18° 32′ W. 38° 52′*†	30.35	770.9	76	24.4		nnw.			2		5		sw;n.	0	0	mod.	sw.	fair.
Bk. Bergenseren, N. 43° 40′ W. 62° 30′†	30.06	763.6				ssw.			2		hz.		s.	0	0	sm'h		d. clouds.
Bk. Cato, N. 44° 00′, W. 38° 55′*†	30.58	776.7				sw.			3		2		w.	0	0	sm'h	sw.	clear.
Schr. C. R. Flint, Cedar Keys, Florida†	30.07	763.8	75	23.9		sw.			4		10		w.	8 h'r	8 h'r			heavy rain.
Schr. Edith R. Seward, N. 18° 28′, W. 66° 06′*†	30.16	766.1	81	27.2		ese.			1		8		ese.	3 h'r	3 h'r	sm'h	e.	cloudy.
S. E. J. Spicer, N. 42° 24′, W. 67° 00′†	30.05	763.3				sw.			3		5		sw.	0	0	sm'h		
S. Enoch Train, Off Fire Island, N. Y*†	30.00	762.0				e.			2		7		calm	0	0	sm'h		fine.
Bk. Essex, S. 28° 50′, W. 22° 36′*†	30.16	766.1	68	20.0		wsw.			5		2		sw.	0	0	long	w.	clear.
Bk. Freya, N. 41° 56′, W. 59° 30′			70	21.1		sw.			4		1		w.	0	0	sm'h		fine.
S. Grecian, Hong Kong, China*†	29.90	759.4	86	30.0		s.			3		5?		s.	1 h'r	1 h'r			clear ?
Bk Hattie G. McFarland, Portland, Me*†	29.80	756.9	63	17.2		calm			0		0			0	0			clear.
S. Hedwig, N. 36° 34′, W. 3° 17′	30.07	763.8	82.4	28.0	83	w.			2		2		sw.	0	0	sm'h	e.	
Bk. Horace Scudder, N. 33° 35′, W. 75° 32′†	29.87	758.7	70	24.4		wnw.			2		8		ne.	1 h'r	1 h'r	cross		rainy
S. Ivy, N. 25° 05′ W. 126° 15′†	30.29	769.4	64	17.8		ne.			6		10		e.			cross	ne.	drizzling.
S. Ismir, S. 45° 10′ E. 23° 00′†	29.96	761.0				ssw.			8		10		sw.	6 h'r	6 h'r	h'vy	wsw.	snowy.
Schr. Jennie N. Huddell, Camden, N. J†	30.05	763.3	69	20.6	84	ese.			1		10			light	light			light rain.
Schr. John L. Thomas, Vivorilla Cays, Mosquito Coast*†	30.09	764.3				ene.			3		2		ene.	0	0			clear.
Bg. John Wesley, N. 32° 35′ W. 71° 47′†	29.83	757.7				ssw.			6		9		sw.	4 h'r	4 h'r	r'gh	sw.	threatening.
Bk. Joseph A. Ropes, N. 15° 58′, W. 32° 45′*†	30.18	766.6	78	25.6	74	ne.			5		6		ne.	0	0	mod.	ne.	fair.
Bkt. Josephine, N. 41° 48′ W. 69° 43′†	29.95	760.7	64	17.8	83	s.			3		8			0	0	sm'h		fair.
S. S. Lamperts, N. 23° 18′, E. 36° 20′*	29.78	756.4	83.0	28.3	70	nw.			4		4 k							d. clouds.
Light House Tender, Laurel, Key West, Florida†	30.09	764.3	84	28.9		sse.			3		3		s.	0	0			fair.
Bk. Liberia, N. 10° 05′, W. 15° 57′.*	30.07	763.8	77	25.0	90	wsw.			3		7							
S. S. Malabar, N. 48° 42′, E. 169° 24′*†	29.79	756.7				se.			6					0	0	mod.	se.	
Bk. Orpheus, N. 46° 30′, W. 15° 43′	30.08	764.0	62	16.7		wnw.			5-6		8 k		wnw.			mod	wnw.	squally.
S. Paramita, S. 27° 52′, W. 94° 37′†	29.98	761.5	72	22.2		nw.			4-7		3		w.	3 h'r	3 h'r	cross		clear.
S. S. Ponca, Para, Brazil†	29.91	759.7	90	32.2		nne.			1		1		e.	0	0			clear.
Bk. Rosebud, S. 34° 10′, E. 15° 55*†	30.26	768.6	58	14.4	100	wnw.			4		10			6 h'r	6 h'r	h'vy	w.	raining.
S. S. Sunbeam, N. 36° 22′, E. 22° 07′	29.95	760.7	77	25.0	77	wnw.			3		0							blue sky.
S. Sovereign of the Sea, N. 16° 06′, W. 34° 11′*†	30.06	763.5	78	25.6	76	e.			6		7		ene.	0	0	short	ene.	overcast.
Bg. Teneriffe, Cardenas, Cuba, W. I	30.09	764.3				calm			0									
Bk. Truro, N. 49° 42′, W. 23° 10′*†	30.00	762.0				wnw.			4		8		wnw.	2 h'r	2 h'r	mod	w.	cloudy.
U. S. F. C. S. S. FishHawk, Washington, D. C†	30.02	762.5	69	20.6	90	se.			1		9		se.	0	0			cloudy.
S. S. Victoria J. Peed, Kingston, Jamaica, W. I						sw.			2		0							
Bk. Vincenzo Accame, Sharp's Id, Chesapeake Bay†	29.83	757.7	74	23.3		ese.			4		9		ese.	0	0	sm'h		cloudy.
Bk Wm. Wilcox, S. 20° 30′, W. 38° 00′*†	30.29	769.4	73	22.8		ese.			4		10		ese.	8 h'r	8 h'r	sm'h		heavy rain.
S. Wm. Woodbury, N. 44° 28′, W. 27° 24′*	30.15	765.8	67	19.4	100	wsw.			2		2?		sw.	light	light	long	wsw.	covered.?

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 5, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.97	761.1	76.6	24.8	82	s.			5		4			inap.	inap.	cloudy	Bouvier.
Algiers			29.98	761.4	78.1	25.6	75	ne.			2		5			0	0	cloudy	Nicolas.
La Galle			29.99	761.7	77.7	25.4	62	e.			1		2			0	0	fair	Fonfrède.
Tunis			30.00	762.0															Jacques.
Saida			30.04	763.0	86.4	30.2	32	ese.			1		0			0	0	clear	Perès.
Tebessan			30.07	763.7	86.7	30.4	24	n.			3		0			0	0	clear	Derché.
Geriville					93.6	34.2	9	sse.			8		0			inap.	inap.	clear	Lonchamp.
Laghouat			30.06	763.6	92.5	33.6	37	e.			4		3			inap.	inap.	pretty fair	Abraham.
Biskra			30.06	763.5	91.4	33.4	32	sw.			1		0			inap.	inap.	clear	Malau.
Australian.																			
Melbourne, Victoria	30.02	762.5	30.11	764.8	51.5	10.8	78	n.	14	6.3			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.35	745.6	29.88	758.9	74.5	23.6	45	s.			3		1			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.00	738.1	29.79	756.6	77.0	25.0	38	ssw.	8.1	3.6			6			0	0		Dr. Wierzbiski.
Eperies	28.97	735.7	29.80	756.9	77.4	25.2	45	calm			0	5 cs	0			0	0		Julius Mikolik.
Gratz	28.03	727.3	29.84	757.8	69.8	21.0	74	sw.			2		0			0	0		Andreas Rospini.
Hermannstadt	28.46	722.8	29.83	757.7	72.0	22.2	66	nw.			2		8			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.46	722.9	29.73	755.1	76.6	24.8	52	calm			0	c	2 k			0	0	almost clear	The Staff.
Lemberg	28.85	732.7	29.79	756.7	71.4	21.9	53	nw.			2		10			0	0		Dr. T. Stanecki.
Pola	29.83	757.7	29.94	760.4	77.7	25.4	47	sse.			3		1			0	0		I. R. Hydrographic Office.
Szathmar	29.36	745.8	29.81	757.2	76.6	24.8	31	nw.			2		3			0	0		Joseph Midlinszky, S. J.
Szegedin	29.58	751.4	29.85	758.2	74.3	23.5	70	nw.			1		3			0	0		Karl Stancel.
Trieste	29.86	758.4	29.96	761.0	73.0	22.8	55	calm			0		2			0	0		Royal Academy.
Vienna	29.13	739.9	29.81	757.1	79.2	26.2	32	se.			2		0			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.20	741.7	29.30	744.2	61.7	16.5	75	sse.	17	7.6			4			0.050	1.3	blue sky	W. Boswell
Armagh, Observatory	29.12	739.6	29.35	745.5	60.0	15.6	87	wsw.	3	1.3			9					d. clouds	S. Oall.
Bidston, Liverpool Obs'y			29.38	746.2	60.0	15.6	80	w.	9	4.0			7					d. clouds	John Hartnup.
Bolton, Sharples	28.85	732.8	29.38	746.2	66.8	16.0	76	ssw.	3	1.3			8					overcast	Thomas Mackereth, ton.
Bradford, Yorkshire	28.97	735.8	29.37	746.0	58.0	14.4	86	sw.			2		10			0.11	2.8	raining	McLandsborough & Pres-
Bridgetown, Barbadoes	30.07	763.8	30.10	764.5	80.0	26.7	82	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.47	748.5	64.4	18.0	70	w.			4.0		6						John McLaren.
Chatham, School M. E.	29.41	747.0	29.54	750.3	64.0	17.8	62	sw.			2		7			blank	blank	d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.40	746.7	29.62	752.3	60.0	15.6	76	w.			4		9					overcast	The Staff.
Fort Napier, Natal	27.99	710.9	30.21	767.3	59.2	15.1	42	ne.			2		8					gloomy	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.09	754.1	29.92	760.0	80.0	26.7	86	w.			1		4					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.97	761.2	30.02	762.5	79.5	26.4	73	sw.			5		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.10	739.1	29.30	744.2	61.7	16.5	68	sw.			1		8					gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.35	745.5	29.51	749.5	63.3	17.4	60	w.			1		9					showery	The Staff.
Guernsey	29.35	745.5	29.64	752.8	61.5	16.4	80	wnw.			4		9			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.49	749.0	29.53	750.0	61.7	16.5	70	sw.	18	8.0			9					showery	The Staff.
Leicester, Museum	29.18	741.2	29.43	747.5	64.8	18.2	57	sw.			2		6					d. clouds.	J. C. Smith.
Malta, Mediterranean	29.89	759.2	29.97	761.2	78.8	26.0	61	ne.			2		3					blue sky	I. H. Whysall.
Nassau, Bahamas	30.03	762.7	30.08	764.0	85.0	29.4	68	sw.			1		3					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.93	734.8	29.44	747.8	60.8	16.0	73	ssw.			5		7					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.26	743.2	29.49	749.0	62.7	17.1	71	sw.			4		6					squally	The Staff.
Plymouth	29.51	749.5	29.58	751.3	62.8	17.1	77	w.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.32	744.7	56.5	13.6	87						10					gloomy	Rev. C. Clouston, L. L.D
Scutari Cemetery, Turkey	29.61	752.1	29.67	753.6	84.6	29.2	52	sw.			2		3			blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.11	739.4	29.38	746.2	68.5	20.3	62	sw.			4		3			0.08	2.0	d. clouds	W. F. Cooper.
Silloth Rectory	29.29	744.0	29.32	744.7	64.2	17.9	75	sw.			1		5			0.130	3.3	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.40	746.7	60.1	15.6	70	wsw.	14	6.3			7					d clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.33	745.0	29.54	750.3	60.2	15.7	87	w.			3-4		10					d. clouds	Rev. O. H. Griffiths, F.M.S.
Truro, Royal Institution	29.03	752.6	29.64	752.8	63	17.2	71	w.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.57	751.1	29.59	751.6	58.3	14.6	76	w.	30	13.4			10			blank	blank	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.07	763.8	30.11	764.8	59	15.0	83	calm	0	0			10 n		e.	0	0	threatening	H. J. Cundall, C. E.
Chatham, N. B*	30.04	763.0	30.10	764.5	58	14.4	90	w.	1	0.4		2 k	8 ks	w.	w.	0.01	0.3	cloudy	G. A. Blair.
Father Point, Quebec*	30.04	763.0	30.06	763.5	52	11.1	83	ne.	5	2.2		2 c	0	calm		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.06	738.1	29.86	758.4	64	17.8	78	se.	20	8.9			10 ks		se.	0	0	cloudy	James Stewart.
Halifax, N. S*	29.94	760.5	30.07	763.8	56	13.3	96	ne.	8	3.6			10 n			0.100	2.5	heavy rain	A. Allison.
Kingston, Ontario*	29.01	752.1	29.94	760.5	60	15.6	78	ne.	4	1.8			10 ks		ne.	0.01	0.3	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.75	755.6	29.95	760.7	63	17.2	81	n.	6	2.7		2 cs	0	s.		0.08	2.0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.31	744.5	29.99	761.7	61	16.1	72	ne.	9	4.0		0	2 k		ne.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.27	743.4	29.96	761.0	54	12.2	100	n.	5	2.2			10 n			0.10	2.5	light rain	H. Morgan.
Port Stanley, Ontario	29.32	744.7	29.95	760.7	57	13.9	83	n.	3	1.3			8 ks		n.	inap.	inap.	cloudy	M. Payne.
Quebec, Quebec*	29.70	754.4	30.02	762.5	61	16.1	87	ne.			5		8 ks		e.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.55	750.6	30.00	762.0	58	14.4	80	w.	2	0.9		3 ck	0	e.		0.10	2.5	fair	W. H. McIntyre.
Saugeen, Ontario*	29.28	743.7	29.98	761.5	61	16.1	75	n.	4	1.8		5 cs	0			0	0	fair	
St. Andrews, N. B	29.94	760.5	29.99	761.7	56	13.3	92	e.	4	1.8			10 n			0.02	0.5	light rain	
Sydney, C. B*	30.10	764.5	30.16	766.1	54	12.2	86	calm	0	0		4 cs	2 s		se.	0	0	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.59	751.6	29.96	761.0	58	14.4	86	ne.	2	0.9			10 ks		e.	inap.	inap.	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.86	758.4	29.93	760.2	58	14.4	93	e.	10	4.5			10 s		e.	0.12	3.0	light rain	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.57	725.7	30.02	762.5	54.0	12.2	93	nnw.			1	10k;cs	10k;cs	nw.		0.32	0.8	cloudy	Wm. Wylie.
St. Johns, Newfoundland	30.10?	764.5?	30.35?	770.9?	64	17.8	68	sw.	2	0.9		0	0			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.38	771.6	30.41	772.4	61.0	16.1	70	ne.	10.6	4.7		5 c	0			0.560	14.2		John Duthie.
Cape Town, C. G. H. Obs'y	30.21	767.3	30.25	768.3	58.6	14.8	89	nw.	10	4.5		10	10			0.890	22.6		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.76	755.9	29.78	756.5	74.1	23.4	96	s.	6.0	2.7			10			0.717	18.2	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.63	752.7	29.68	753.9	71.2	21.8	68	se.	13	6			5						Oversergent Fischer.
Fanöe	29.51	749.5	29.53	750.0	74.3	23.5	67	s.			4		9						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.70	754.3	29.74	755.4	44.6	7.0	85	e.			6		8						A. O. Thorlacius.
Thorshavn	29.34	745.2	29.37	746.1	54.7	12.6	93	calm	0	0			10					foggy	Overloerer Bergh.
Vestervig	29.45	748.0	29.54	750.3	69.8	21.0	84	sw.			2		9					thunder	Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.32	744.8	29.96	761.0	70.5	21.4	92	calm			0		kn		nw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.17	741.0	29.72	755.0	63.3	17.4	84	sw.			2		10 n	ne.	ne.	0.378	9.6	raining	M. Nicot, Director.
Arras, Engineer School	29.34	745.1	29.59	751.5	63.1	17.3	74	sw.			4		kn		sw.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.82	757.3	29.89	759.3	68.4	20.2	89	s.			2		10		s.	0.335	8.5	raining	M. Giraud, Director.
Bar-sur-Seine	29.21	742.0	29.75	755.7	66.7	19.3	70	sw.			1		9		sw.	0.098	2.5	covered	M. Saillard, Director.
Beauvais, Normal School	29.42	747.3	29.68	753.8	69.1	20.6	53	sse.			2		5			0.102	2.6	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.06	738.2	29.77	756.1	64.4	18.0	86	ssw.			2		10 n		sw.	0.035	0.9	raining	M. Gobin, Director.
Bordeaux, Observatory	29.67	753.7	29.93	760.2	65.3	18.5	54	wnw.			2		8		wnw.	0.087	2.2	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.25	743.0	29.79	756.6	68.0	20	58	ssw.			2		k		ssw.	0.08	2.		M. Malet, Director.
Brest, Naval Observatory	29.58	751.2	29.82	757.4	64.8	18.2	72	w.			3		10		w.	0.283	7.2	hailing	M. de Kermaree, Dir.
Caen, Normal School	29.60	751.9	29.67	753.7	63.7	17.6	65	sw.			2		5		sw.	0.012	0.3	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.30	744.2	29.61	752.1	65.8	18.8	82	calm			0		10	w.	w.	0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.12	739.7	29.61	752.2	68.0	20	62	w.			2					0	0		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.53	724.7	29.86	758.5	60.8	16.0	67	wsw.			2		8		w.	0.055	1.4	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.02	737.1	29.83	757.7	61.5	16.4	92	se.			2		7		sw.	0.094	2.4		M. de Villemontée, Dir.
Commercy, Normal School	28.92	734.5	29.76	755.8	62.8	17.1	76	sw.			3		10 kn	sw.	sw.	0.035	0.9	covered	Dr. Coulet, Director.
Gap, Normal School	27.52	699.0	30.04	763.0	58.6	14.8	83	w.			1		10 n			0.31	8.		M. Jeangirard, Director.
Gréasque, du Rhone	28.83	732.2	29.96	759.5	77.4	25.2	49	s.			3		8		s.	0	0	stormy	M. Kina, Director.
Grenoble, Normal School	29.15	740.5	29.91	759.8	59.4	15.2	98	sse.			1		10					raining	M. Ablard, Director.
Guéret, Normal School	28.27	718.0	29.80	757.0	63.5	17.5	61	sw.			6	0	2 kn		sw.	0.378	9.6	slightly cl'dy	M. Rivoire, Director.
Lamballe, Normal School	29.47	748.4	29.74	755.3	57.9	14.4	93	w.			4		5			0.020	0.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.45	748.1	30.01	762.3	65.1	18.4	67	w.			1		10			0.31	8.	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.72	754.8	29.82	757.4	64.0	17.8	71	w.			3		5	n.	w.	0.039	1.0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.83	732.2	29.87	758.7	60.8	16.0	82	ssw.			2		10		s.	0.157	4.0	raining	M. André, Director.
Mans, Normal School	29.44	747.7	29.74	755.4	63.1	17.3	92	w.			3		5		sw.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.68	753.8	29.94	760.5	77.0	25.0	67	sse.			2		9		ssw.	0	0		M. Stephan, Director.
Montlouis	24.80	629.8	29.64	752.8	58.1	14.5	77	ne.	3.8	1.7			8	ne.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.70	754.3	29.82	757.5	70.5	21.4	78	w.			3		8	w.		0.24	6.	very cloudy	M. Galzin, Director.
Nancy, Normal School	29.05	737.8	29.81	757.2	64.4	18.0	80	s.			2		kn		se.	0.043	1.1		M. Hasse, Director
Nantes, Observatory	29.69	754.0	29.85	758.1	66.6	19.2	55	wsw.			2–4	0	9 k; kn		wnw.	0.146	3.7		M. Larocque, Director.
Perpignan, Observatory	29.82	757.5	29.93	760.2	70.5	21.4	57	nw.	18.6	8.3			10		sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.24	539.6			41.9	5.5		sw.			2		10		sw.	0.051	1.3	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.84	732.6	29.89	759.2	62.6	17	90	s.			1					0.67	17.		M. Taillen.
Puy de Dôme Obs'y, Summit	25.03	635.7			42.4	5.8	100	wsw.			6		10			0.173	4.4	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.90	759.5	29.93	760.3	68.9	20.5	100	wsw.			3		10	w.	sw.	0.24	6.	raining	Lt. E. Decaute, Director.
Roche-sur-Yon, N. School	29.57	751.1	29.78	756.4	67.3	19.6	65	sw.			1		5		nw.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.84	707.0	29.96	761.0	57.2	14.0	78	nw.			1		10		se.	0.335	8.5	covered	M. Seger, Director.
Rouen, Normal School	29.64	752.9	29.69	754.1	59.7	15.4	93	w.			1		10	sw.		0.504	12.8	covered	M. Brotier.
Saint Maur, Observatory	29.54	750.3	29.71	754.5	68.4	20.2	54	sw.			2		5		sw.	0.102	2.6		M. Renou, Director.
Toulouse, Observatory	29.31	744.4	30.03	762.8	63.7	17.6	66	nw.			3		10		nw.	0.370	9.4	covered	M. Baillaud, Director.
Tours	29.59	751.6	29.77	756.1	68.4	20.2	57	wsw.			1		10 k	ssw.	wsw.	0.028	0.7	hailing	M. de Tastes.
Versailles, Observatory	29.21	741.9	29.70	754.4	68.0	20.0	53	w.			3					0.185	4.7		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.42	747.2	29.71	754.6	67.1	19.5	51	wsw.			2		8		wsw.	0.098	2.5		M. Marié Davy, Director
GERMAN.																			
Bamberg	28.91	734.4	29.76	755.9	79.5	26.4	44	sw.			2	0	3 k		sw.	0	0		Prof. Dr. Hoh.
Berlin	29.63	752.6	29.80	756.9	83.3	28.5	18	sw.			3		8			0	0		Prof. Dr. Arndt.
Breslau	29.30	744.2	29.83	757.6	78.1	25.6	36	sw.			2		2			0	0		Royal University Obs'y.
Carlsruhe	29.32	744.8	29.74	755.4	75.6	24.2	58	w.			2		9	sw.		0.197	5.0		Albert Senz.
Cassel	28.97	735.9	29.69	754.0	79.5	26.4	45	s.			2		8	sw.		0.185	4.7		Dr. H. Mohl.
Frankfort-on-the-Main	29.34	745.3	29.69	754.0	77.9	25.5	49	wsw.			2		6			0	0		Physical Society.
Friedrichshafen	28.36	720.4	29.72	755.0	73.8	23.2	60	sw.			4		4	w.		0.413	10.5		Wilhelm, Chief Tel.
Hamburg	29.53	750.0	29.62	752.4	77.5	25.3	42	sse.			4		6			0	0		E. Preller.
Kiel	29.57	751.0	29.58	751.4	79.3	24.6	48	sse.			4		7			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.32	744.6	29.71	754.7	80.2	26.8	41	s.			6		6			0	0		H. Leppig, Asst.
Magdeburg	29.49	749.1	29.97	753.5	83.8	28.8	30	ssw.			4		6 c	o		0	0		Dr. Assmann.
Memel	29.77	756.2	29.82	757.4	62.2	16.8	76	nw.			3		2 cs	o					Issermann.
Munich	28.00	711.2	29.85	758.2	77.9	25.5	42	w.			2		4	sw.		0	0		Dr. C. Lang.
Neufahrwasser	29.80	756.8	29.81	757.2	66.6	19.2	72	e.			1		10			0	0		A. Lothes.
Neustadt, Palatinate	29.21	742.0	29.74	755.3	70.9	21.6	56	w.			4		10			0	0		Dicknether.
Stuttgart	28.88	733.6	29.72	754.9	79.7	26.5	40	n.			1		4	w.		0.067	1.7		Prof. Dr. Schoder.
Wustrow	29.65	753.0	29.67	753.6	72.3	22.4	65	s.			1		10 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.42	747.3			88.0	31.1		sw.			4.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.48	748.7	29.53	750.0	90.7	32.6	77	wsw.	24.0	10.7			2			0	0	d. clouds	
Deesa	28.97	735.9	29.43	747.6	88.8	31.6	69	ese.	9.6	4.3			10	se.	ene.	1.12	28.4	overcast	
Bombay	29.53	750.1	29.57	751.1	79.5	26.4	95	wsw.	13.0	5.8			10		ssw.	0.97	24.0	raining	
Poona, Yarrowda	27.72	704.0	29.57	751.0	74.6	23.7	89	w.	11.0	4.9			10		w.	0.20	6.6	overcast	
Trichinopoly	29.47	748.6	29.75	755.7	86.9	30.5	45	nw.	4.0	1.8			10			0	0	overcast	
Bellary	28.19	716.0	29.65	753.0	81.9	27.2	63	w.	17.0	7.6			8	ene.		0	0	gloomy	
Belgaum	27.14	689.3	29.69	754.1	69.6	20.9	93	wsw.	10.0	4.5			10		sw.	1.71	43.4	showery	
Lahore	28.77	730.7	29.48	748.9	92.1	33.4	50	e.	5.9	2.6			0			0	0	blue sky	
Roorkee	28.64	727.6	29.53	750.0	83.0	28.3	82	se.	3.4	1.5			8			1.73	43.9		
Agra	28.93	734.9	29.50	749.2	77.7	25.4	94	e.	7.2	3.2			10		e.	2.00	50.8	overcast	
Nagpur	28.44	722.5	29.46	748.2	88.3	31.3	56	ssw.	7.1	3.2			5		nw.	0	0	d. cloudy	
Jubbulpore	28.19	716.1	29.52	749.8	86.8	30.4	68	e.	2.7	1.2			8			0.11	2.8	gloomy	
Lucknow	29.12	739.5	29.48	748.8	93.0	33.9	50	e.	2.9	1.3			0			0.02	0.5	blue sky	
Allahabad	29.15	740.4	29.45	748.1	90.7	32.6	66	e.	3.4	1.5			7	e.		0	0	d. clouds	
Patna	29.36	745.9	29.55	750.5	85.6	29.8	80	e.	7.8	3.5			8	e.	e.	0	0	threatening	
Hazaribagh	27.53	699.2	29.50	749.4	82.0	27.8	77	ese.	9.2	4.1			10		s.	0.07	1.8	showery	
Cuttack	29.42	747.3	29.50	749.3	86.6	30.3	77	ese.	0.5	0.2			4			0.05	1.3	d. clouds	
Calcutta, Alipore	29.51	749.5	29.53	750.0	85.7	29.8	80	sse.	6.0	2.7			7		se.	0.25	6.4	d. clouds	
Dhubri	29.47	748.6	29.59	751.6	84.0	28.9	85	calm	1.5	0.7			8			0.37	9.4	d. clouds	
Chittagong	29.54	750.3	29.63	752.6	81.2	27.3	88	calm	4.4	2.0			9					drizzling	
Sibsagar	29.27	743.5	29.60	751.9	84.6	29.2	85	ne.	1.0	0.4			10	sw.	sw.	0	0	d. clouds	
Jeypore	28.07	713.0	29.49	749.1	82.9	28.3	77	e.	3.1	1.4			10	e.	e.	0	0	overcast	
Zanzibar, Africa	30.08	764.0			81.6	27.6	62	ssw.	5.2	2.3			3		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.54	750.3	29.94	760.4	75.6	24.2	41	w.	3.1	1.4			4			0	0		Prof. Giovanni Clodig.
Milan	29.42	747.3	29.92	759.9	78.6	25.9	39	ese.	3.1	1.4			6	sse.		0	0		Prof. Schiaparelli.
Padua	29.81	757.1	29.91	759.8	78.1	25.6	38	se.	7.4	3.3			2	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.00	736.5	29.87	758.6	75.2	24.0	50	e.	3.1	1.4			8	n.		0.925	23.5		Prof. P. F. Denza.
Genoa	29.78	756.4	29.97	761.1	74.5	23.6	61	s.	4.9	2.2			1	nw.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.00	711.3	29.85	758.2	75.2	24.0	49	n.			4		2	ssw.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.88	759.0	29.93	760.2	74.3	23.5	48	ese.	4.9	2.2			0			0	0		Prof. Luigi Guidi.
Florence	29.70	754.3	29.94	760.5	78.4	25.8	35	w.			2		0			0	0		Prof. Costantino Pitter.
Leghorn	29.84	757.9	29.92	760.0	77.0	25.0	58	wsw.	0.7	0.3			2			0	0		Prof. P. Monte.
Rome	29.78	756.5	29.95	760.8	80.4	26.9	41	nw.	2.5	1.1			1			0	0		Prof. P. S. Ferrari.
Lecce	29.69	754.1	29.93	760.2	72.1	22.3	36	nne.	9.4	4.2			0			0.516	13.1		Prof. C. de Giorgi.
Cosenza	29.07	738.4	29.92	759.9	79.2	26.2	70	wsw.	4.9	2.2			0			0	0		Prof. D. Conti.
Cagliari	29.75	755.7	29.94	760.5	76.3	24.6	57	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.75	755.6	29.98	761.6	77.0	25.0	42	ene.	8.7	3.9			0			0	0		Prof. G. Cincciatore.
Syracuse	29.89	759.2	29.93	760.3	78.1	25.6	69	ese.	6.3	2.8			2	sw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.43	747.5	29.93	760.3	77.9	25.5	52	e.	0	0			2	w.		0.016	0.4		Prof. T. Brioschi.
Stelvio	22.19	563.7			47.5	8.6	61	wsw.			4		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.23	564.6			44.8	7.1	79	ne.			2		10			0.315	8.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	30.02	762.5	30.03	762.7	54.0	12.2	93	e.	3.6	1.6			0			0	0	clear	
Hiroshima, I. M. Obs'y					73.4	23.0	82	sw.	1.0	0.4			9 s;ck			0	0	cloudy	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.75	755.6	29.92	759.9	70.7	21.5	82	nnw.	2.8	1.2			9 ck;s			0.050	1.3	cloudy	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.69	754.1	29.89	759.1	72.5	22.5	87	calm	0	0		2 ck	7 s			0	0	cloudy	S. Takehayashi.
Nemuro	30.05	763.3	30.11	764.8	50.0	10.0	93	calm	0	0		0	1			0	0	clear	
Niigata	29.90	759.4	29.93	760.2	68.7	20.4	88	ene.	1.7	0.8			10 ck			0	0	covered	M. Morita.
Nobiru	30.01	762.3	30.03	762.7	64.9	18.3	83	s.	18.0	8.0		0	4 s			0.080	2.0	fair	H. Midzushina.
Osaka	29.94	760.5	29.95	760.7	74.0	23.7	74	w.	2.6	1.2			10 s			0	0	cloudy	
Sapporo					56.5	13.6	90	calm	0	0			0			0	0	clear	
Tokei Obs'y, Yeddo	29.93	760.2	30.00	762.0	66.2	19.0	97	e.	3.0	1.3			10 n			0.520	13.2	light rain	The Staff.
Wakayama	29.84	757.9	29.89	759.2	73.6	23.1	76	sw.	3.0	1.3			10			0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	30.00	762.0	30.19	766.8	74.3	23.5	73	e.	11.5	5.1		0	6 ks;n		ese.	0.22	5.6	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.75	603.3	29.97	761.3	58.8	14.9	87	nne.				1 c	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.37	619.0	29.96	761.0	61.5	16.4	82	wnw.			1	1 c	0	se.		0	0	fair	Prof. M. Leal.
Mazatlan	29.74	755.5	30.00	762.0	77.0	25.0	95	e.	1.6	0.8			10 n		e.	0.296	7.5	rainy	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.6	30.20	767.0	50.8	13.8	87	calm	0	0		2 c	2 ks	n.		0.047	1.2	clear	The Staff.
Morelia	24.29	617.1	30.37	771.6	59.7	15.4	59	se.			2	3	2	s.	se.	0.559	14.2	raining	M. Tena, M. D.
Orizaba	26.10	662.8	30.07	763.8	62.7?	16.6?	86	s.	0.9	0.4		2	0			0	0	clear	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.04	610.2	30.01	762.3	62.1	16.7	68	calm			0	3 cs	0			0	0	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.48	596.3	30.25	768.4	53.4	11.9	98	calm	0	0		0	5		se.	0.121?	5.6?	½ cloudy	Prof. P. Spina.
San Luis Potosi	24.25	616.0	30.14	765.6	68.1	20.1	66	e.				7	0	w.		0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.61	574.3	30.25	768.4	60.5?	16.1?	63	e.	9.0	4.0		0	0			0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.60	751.8	29.60	751.8	67.3	19.6		w.			4					0.197	5.0		
Groningen	29.50	749.3	29.56	750.7	70.3	21.3		sw.			2					0	0		
Helder	29.52	749.7	29.52	749.7	64.0	17.8		ssw.			5					0.083	2.1		
Hellevoetsluis	29.58	751.2	29.58	751.2	65.5	18.6	65	wsw.			4					0.035	0.9		
Utrecht	29.54	750.4	29.59	751.6	67.8	19.9	75	ssw.			3		8			0.083	2.1	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.42	747.3	29.48	748.9	65.8	18.8	73	w.	2	1			6			0.276	7.0		
Brono	29.52	749.8	29.56	750.8	68.7	20.4	41	e.	9	4			1			0	0		
Christiania	29.48	748.7	29.62	752.3	66.9	19.4	76	sw.	7	3			10			0.012	0.3	raining	
Gjæsvær	29.84	758.0	29.87	758.0	39.9	4.4		ne.			4		10						
Lodingen	29.65	753.2	29.70	754.4	59.0	15.0	50	calm			0		0			0	0		
PORTUGUESE.																			
Angra, Azores					75.7	24.3	85	wnw.	11.9	5.3			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.01	736.8	29.97	761.2	77.0	25.0	33	wnw.	7.4	3.3			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.13	765.3	30.22	767.5	71.8	22.1	74	wsw.	4.9	2.2			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.75	755.7	30.11	764.8	68.0	20.0	56	nnw.	10.5	4.7			7			0	0		The Staff.
Ponta Delgada, Azores	30.27	768.8	30.34	770.5	77.4	25.2	60	n.	11.2	5.0			4	ese.		0	0		
Saint Paul de Loando	29.86	758.5	30.07	763.7	69.4	20.8	80	wnw.	0.7	0.3			0			0	0		
Serra da Estrella	25.32	643.2	29.97	761.2	57.2	14.0	51	nnw.	9.4	4.2			0			0	0		
RUSSIAN.																			
Akmolinski	28.61	726.7	29.63	752.6	75.2	24.0	30	wsw.	11	5		0	7 k			0	0		Major K. Lasarew.
Archangel	29.56	750.9	29.58	751.4	50.2	10.1	71	nw.	13	6			9 ks			0	0		Capt. Sseliwerstow.
Astrakhan	29.75	755.7	29.67	753.6	83.7	28.7	46	e.	7	3		0	2 k			0.165	4.2		Capt. Wisganow.
Barnaul	29.26	743.2	29.74	755.3	69.3	20.7	47	calm	0	0			5			0	0		Meteorological Obs y.
Dorpat	29.35	745.4	29.58	751.3	64.4	18.0	56	wnw.	11	5		0	6 k			blank	blank		Observatory.
Ekaterinburg	28.66	728.0	29.60	751.7	61.2	16.2	68	nw.	9	4			9			0.047	1.2		Meteorological Obs'y.
Irkutsk	28.09	713.6	29.66	753.4	67.8	19.9	67	sse.	4	2			9 s			0.051	1.3		
Kasan	29.31	744.4	29.57	751.0	67.3	19.6	65	ssw.	7	3			10			0.157	4.0		Observatory.
Kertch	29.66	753.4	29.68	753.9	72.9	22.7	60	sse.	25	11		0	7 n			0	0		Lagorio & Sastyrez.
Kieff	29.04	737.7	29.65	753.1	70.9	21.6	45	wnw.	11	5		ck	7 ks			0	0		Observatory.
Lugan	29.35	745.5	29.55	750.5	70.5	21.4	65	wsw.	18	8			9			0	0		Meteorological Obs'y
Moscow	28.98	736.1	29.44	747.7	58.6	14.8	87	ssw.	7.8	3.5			10 s					raining	Meteorological Obs'y.
Nikolaiev	29.69	754.0	29.76	755.8	77.7	25.4	50	n.	9	4		0	3 k;s			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.51	749.5	29.65	753.1	84.9	29.4	58	se.	4	2		0	4 k			0	0		Physical Observatory
St. Petersburg	29.43	747.5	29.45	747.9	55.0	12.8	87	n.	13	6			10 n			0.028	0.7		Central Physical Obs'y
Semipalatinsk	29.10	739.1	29.71	754.7	78.1	25.6	30	calm	0	0			9			0	0	light clouds	Major Lasarew.
Tashkend, Laboratory	28.11	713.9	29.55	750.5	91.8	33.2	32	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.26	717.8	29.57	751.0	93.7	34.3	38	e.	4	2		0	6 k			0	0		Physical Observatory
Vladivostock	29.91	759.8			58.6	14.8	88	se.	4	2		0	6 k						
Warsaw	29.38	746.3	29.78	756.5	73.8	23.2	57	w.	7	3			9 ks						Astronomical Obs'y
Wilna	29.29	743.9	29.69	754.0	72.3	22.4	42	nw.	9	4			5			0	0		Berg, Assistant.
Yeniseisk	29.41	747.0	29.69	754.0	67.6	19.8	78	ssw.	11	5			4			blank	blank		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.78	756.4	29.88	759.0	77.0	25	67	s.	4.0	1.8		1 c	0						Antonio Rave, Director.
Bilbao, Met. Obs'y	30.00	761.9	30.06	763.4	72.3	22.4	59	n.	3.8	1.7		2	7	nw.		0	0	almost cov.	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.06	687.3	29.92	760.0	69.8	21.0	46	ne.	4.3	1.9			7			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.72	704.0	29.83	757.6	81.9	27.7	27	w.	13.6	6.1		4	0			0	0	light clouds.	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director
Santiago, Met. Obs'y	29.13	739.9	30.00	762.1	68.2	20.1	59	calm	0	0			9			0.091	2.3	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.																			Benito Vines, S. J.
Manilla, Philippine Islands	29.88	759.0	29.94	760.5	79.3	26.3	86	e.	4.4	2.0		0	1 ks			0.354	9.0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.8	30.09	764.3	71.8	22.1	72	wsw.	3.3	1.5			10		sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.06	763.6	30.15	765.9	80.6	27.0	85	se.	8.9	4.0		2 k	0	se.		0.020	0.5	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.82	757.4	29.95	760.7	85.2	29.6	80	nw.	4.3	1.9		0	5 ks		n.	0	0	cloudy	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.75	755.7	29.79	756.7	54.0	12.2	61	ne.			4		5			0	0		
Umea	29.72	754.8	29.77	756.1	52.9	11.6	71	e.			4		10			0	0		
Hernosand	29.75	755.6	29.80	756.9	53.2	11.8	72	se.			2		8			0.012	0.3		
Stockholm	29.58	751.4	29.76	755.9	67.3	19.6	41	w.			2		9			0.071	1.8		
Wisby	29.69	754.2	29.75	755.7	60.8	16.0	71	nne.			4		7			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Swedish—Continued.																			
Sub-series.																			
Upsala	29.66	753.3	29.74	755.5	64.0	17.8	45	ese.	2.2	1.0			9			0	0		S. G. Fineman.
Swiss.																			
Geneva	28.47	723.2	29.87	758.7	64.0	17.8	76	w.			2					0.417	10.6	covered	The Observatory
Scottish.																			
Monach Lt			29.33	745.0	63	17.2	94	sw.			4	3	5	sw.		0	0	d. clouds	J. Youngclause.
North Unst			29.30	744.2				se.			4		1g.					foggy	
Turkish.																			
Constantinople			29.72	754.8	84.9	29.4	47	w.	6	2.5			4		sw.	0	0		The Observatory.
Valona			30.05	763.2	75.6	24.2		w.			1		2			0.472	12.0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.77	756.1	83.8	28.8	62	w.			2	0	0			0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.80	756.9	29.88	758.9	62	16.7	78	n.	5	2.2			10 s			0.16	4.1	cloudy	J. O. Barnes.
Alpena, Michigan	29.42	747.3	30.06	763.5	57	13.9	80	nw.	6	2.7		3 k	2 s	n.	n.	inap.	inap.	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.18	639.6	29.92	760.0	59	15.0	72	e.	2	0.9		0	0			0.07	1.8	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.10	688.3	29.84	757.9	72	22.2	59	sw.	20	8.9			10 s		sw.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.76	730.5	29.91	759.7	62.0	16.7	78	nw.	11	4.9		0	0			0.97	24.6	clear	H. Hall.
Atlantic City, New Jersey	29.62	752.3	29.62	752.3	64.8	18.2	100	ne.	21	9.4			10 s		calm	2.03	51.6	cloudy	Jas. M. Watson.
Augusta, Georgia	29.68	753.9	29.87	758.7	73.0	22.8	71	n.	3	1.3		8 k	0	sw.		0.07	1.8	cloudy	John Healy.
Baltimore, Maryland	29.75	755.6	29.80	756.9	61	16.1	87	n.	8	3.6			10 s		ne.	1.09	27.7	cloudy	Robert Seybolh.
Barnegat, New Jersey	29.65	753.1	29.67	753.6	62.0	16.7	100	e.	28	12.5			10 n			1.90	48.3	light rain	G. A. Hill.
Bennett, Fort, Dakota	28.30	718.8	29.84	757.9	67	19.4	90	e.	2	0.9		5 k	4 s	nw.	calm	inap.	inap.	cloudy	A. Pritchard.
Benton, Fort, Montana	27.12	688.8	29.83	757.7	70	21.1	70	sw.	10	4.5			10 n			inap.	inap.	light rain	G. W. Davis.
Behring Island, Behring Sea	29.52	749.8	29.54	750.3	44.2	6.8		ne.	18	8.0			10 s			0.01	0.3	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.11	714.0	29.83	757.7	66	18.9	84	sw.	3	1.3		2 c	0	w.		0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.77	756.1	29.80	756.9	59.0	15.0	100	e	24	10.7			10 n		e.	0.75	19.0	light rain	J. T. Elker.
Boise City, Idaho	27.24	691.9	29.96	761.0	67	19.4	61	nw.	1	0.4		8 k	0	w.		0	0	fair	B. E. Light.
Boston, Massachusetts	29.72	754.9	29.87	758.7	57.0	13.9	96	ne.	11	4.9			10 n			0.12	3.0	light rain	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	77.0	25.0	90	s.	6	2.7		5 cs	0	calm		0	0	fair	M. McCarty.
Buffalo, New York	29.19	741.4	29.92	760.0	53.8	12.1	93	n.	5	2.2			10 n		ne.	0.40	10.2	light rain	Wm. Finn.
Buford, Fort, Dakota	27.98	710.7	29.92	760.0	63	17.2	78	calm	0	0		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.64	752.8	29.92	760.0	62.5	16.9	86	ne.	1	0.4		3 ck	5 s	sw.	ne.	0.06	1.5	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.75	755.6	30.14	765.5	62.6	17.0	70	n.	16	7.2		0	0			0	0	clear	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.28	692.9	29.87	758.7	78	25.6	48	se.			1	1 cs	1 ks			inap.	inap.	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.74	755.4	29.76	755.9	67	19.4	84	ne.	24	10.7			10 s			1.10	27.9	cloudy	A. K. Alderson.
Cape May, New Jersey	29.64	752.8	29.67	753.6	65.0	18.3	93	nw.	20	8.9			10 n		nw.	1.60	40.6	light rain	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	29.85	758.2	29.87	758.7	81	27.2	88	w.	10	4.5		0	8 n		w.	2.37	60.2	lightrain	F. W. Mixer.
Champaign, Illinois	29.32	744.7	30.11	764.8	56.5	13.6	73	n.	13	5.8		0	0			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	29.72	754.9	29.77	756.1	76	24.4	82	n.	11	4.9		4 ck	6 s	w.	ne.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	28.99	736.3	29.82	757.4	71.0	21.7	53	n.	6	2.7		4 k	0	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.18	741.2	29.98	761.5	63.0	17.2	73	n.	13	5.8		0	0			0.03	0.8	clear	B. L. Goulding.
Cheyenne, Wyoming	24.18	614.2	29.87	758.7	61.1	16.2	72	sw.	3	1.3		5 c	0	nw.		inap.	inap.	fair	E. McGovern.
Chicago, Illinois	29.43	747.5	30.12	765.0	59.2	15.1	74	nw.	8	3.6		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	29.68	753.9	29.70	754.4	62	16.7	100	nw.	16	7.2			10 s		w.	0.04	1.0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.38	746.2	30.02	762.5	60.8	16.0	75	n.	8	3.6		0	0			0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.24	742.7	29.96	761.0	60.7	15.9	72	n.	13	5.8			10 ks;s		n.	0.22	5.6	cloudy	J. B. Newlin.
Coleman City, Texas	28.33	719.6	30.09	764.3	69	20.6	70	ne.	2	0.9		3 c	0			0.02	0.5	clear	L. Dorman.
Columbus, Ohio	29.14	740.1	29.97	761.2	57	13.9	74	n.	8	3.6		0	0			0	0	clear	D. Cuthbertson.
Concho, Texas	28.20	716.3	30.08	764.0	68	20.0	70	calm	0	0		6 c	0			0	0	fair	W. W. McConlhe.
Custer, Fort, Montana	26.81	681.0	29.83	757.7	67	19.4	70	s.	7	3.1			10 s		calm	0	0	cloudy	V. Verge.
Davenport, Iowa	29.54	750.3	30.17	766.3	61	16.1	78	n.	2	0.9		0	0			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.31	642.9	29.95	760.7	70	21.1	76	calm	0	0		0	0			0.30	7.6	clear	J. Williams.
Dayton, Washington T'y	28.24	717.3	29.95	760.7	65.0	18.3	90	sw.	3	1.3			10 s		sw.	0.11	2.8	threatening	H. Clifford.
Deadwood, Dakota	25.42	645.7	29.84	757.9	66.0	18.9	65	sw.	4	1.8		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					74	23.3	43	ne.	9	4.0		0	2 s			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.66	753.4	29.68	753.9	63	17.2	93	nw.	22	9.8			10 s		nw.	0.87	22.1	cloudy	A. Schneider.
Denison, Texas	29.33	745.0	30.11	764.8	65.0	18.3	84	n.	3	1.3		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.80	631.4	29.87	758.7	67.0	19.4	76	nw.	4	1.8		4 cs	0			0	0	fair	F. M. Neal.
Des Moines, Iowa	29.31	744.5	30.19	766.8	57	13.9	86	calm	0	0		0	fg.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.31	744.5	30.00	762.0	56.2	13.4	80	n.	7	3.1		1 ck	4 s	n.	nw.	0	0	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.56	700.0	30.06	763.5	65.0	18.3	78	s.	7	3.1		0	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.48	748.8	30.17	766.3	56.8	13.8	80	w.	1	0.4		0	2 s		se.	inap.	inap.	clear	J. Harvey Smith.
Duluth, Minnesota	29.43	747.5	30.15	765.8	62	16.7	67	ne.	2	0.9		0	hz.			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.23	742.4	30.02	762.5	80.0	26.7	62	e.	6	2.7		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.36	644.1	29.91	759.7	64	17.8	60	calm	0	0		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.93	760.2	29.99	761.7	54.0	12.2	86	ne.	10	4.5			10 n		ne.	0.09	2.3	light rain	D. C. Murphy.
Elliott, Fort, Texas	27.38	695.4	30.02	762.5	61	16.1	78	se.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.39	670.3	29.99	761.7	68	20.0	81	ne.	1	0.4		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.21	741.9	29.92	760.0	56	13.3	93	ne.	16	7.2			10 n		e.	0.80	20.3	light rain	Peter Wood.
Escanaba, Michigan	29.50	749.3	30.14	765.5	56	13.3	74	n.	10	4.5		0	0			0	0	clear	C. Dill.
Fredericksburg, Texas	28.35	720.1	30.05	763.3	76	24.4	62	calm	0	0		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	29.93	760.2	29.98	761.5	78	25.6	90	nw.	24	10.7		0	hz.			inap.	inap.	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.44	747.8	30.09	764.3	59.0	15.0	75	n.	8	3.6		0	0			0.20	5.1	clear	W. A. Reid.
Grant, Fort, Arizona	25.36	644.1	29.93	760.2	74.9	23.8	45	ne.	11	4.9		4 cs	1 s			0.04	1.0	fair	Robert C. Lord.
Hatteras, North Carolina	29.73	755.1	29.75	755.6	71.0	21.7	87	ne.	14	6.3			10 k		n.	0.86	21.8	cloudy	R. M. Crawford.
Helena, Montana	25.79	655.1	29.85	758.2	67	19.4	76	w.	4	1.8		10 k	0	w.		0.10	2.5	cloudy	S. Wheaton.
Henrietta, Texas	29.18	741.2	30.16	766.1	74.0	23.3	59	calm	0	0		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.62	726.9	29.94	760.5	59.9	15.5	72	se.	16	7.2			10 s			0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.28	743.7	30.05	763.3	60	15.6	70	n'	2	0.9		0	0			0.17	4.3	clear	O. Schutze
Indianola, Texas	29.99	761.7	30.02	762.5	77.3	25.2	90	w.	5	2.2		0	hz.			0	0	clear	I. A. Reed.
Jacksboro, Texas	28.98	736.1	30.10	764.5	69	20.6	75	ne.	4	1.8		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.79	756.7	29.83	757.7	79	26.1	82	sw.	8	3.6		2 cs	3 k		nw.	1.12	28.4	fair	J. W. Smith.
Keogh, Fort, Montana	27.40	695.9	29.81	757.2	70	21.1	59	ne.	4	1.8		9 cs	0			0	0	cloudy	W. B. Stockman.
Keokuk, Iowa	29.51	749.5	30.14	765.5	65.0	18.3	73	n.	3	1.3		0	0			0	0	clear	F. Z. Goscwisch
Key West, Florida	29.98	761.5	30.00	762.0	85.5	29.7	66	sw.	9	4.0		3 cs	0	sw.		0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	29.74	755.4	29.76	755.9	68.0	20.0	90	nw.	16	7.2			10 s		n.	0.12	3.0	cloudy	E. A. Beals.
Knoxville, Tennessee	28.98	736.1	29.98	761.5	61.6	16.4	76	n.	6	2.7		0	0			0.73	18.5	clear	J. A. Cody.
La Crosse, Wisconsin	29.40	746.7	30.15	765.8	57	13.9	86	s.	2	0.9			fg.			0	0	dense fog	S. C. Emery
La Mesilla, New Mexico	26.24	666.5	29.98	761.5	68.7	20.4	58	calm	0	0		2 c	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.31	744.5	30.17	766.3	62	16.7	72	calm		0		5 cs	0	nw.		0	0	fair	A. W. Browne.
Lewiston, Idaho	29.12	739.6	29.93	760.2	69.0	20.6	90	calm	0	0			10 s			0.05	1.3	cloudy	W. Bell.
Little Rock, Arkansas	29.85	758.2	30.16	766.1	64	17.8	78	n.	5	2.2		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.60	751.8	29.99	761.7	62.4	16.9	68	sw.	2	0.9		0	0			0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.47	748.5	30.02	762.5	60	15.6	75	n.	8	3.6		0	0			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.15	740.4	29.82	757.4	67.5	19.7	62	nw.	4	1.8		0	0			0.09	2.3	clear	W. R. Bushby.
Macon, Fort, North Carolina	29.75	755.6	29.76	755.9	69	20.6	90	nw	16	7.2			10 ks		nw.	0.67	17.0	cloudy	F. P. Chaffee.
Madison, Wisconsin	29.19	741.4	30.17	766.3	56	13.3	86	n.	4	1.8		0	0			inap.	inap.	clear	C. A. Shaw.
Maginnis, Fort, Montana																			H. W. Dodge.
McKavett, Fort, Texas	27.88	708.1	30.08	764.0	73	22.8	59	ne	7	3.1		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.46	748.3	30.17	766.3	60	15.6	60	calm	0	0		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.77	756.1	30.10	764.5	66	18.9	68	n.	6	2.7		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.41	747.0	30.14	765.5	56	13.3	80	nw.	9	4.0		0	0			0	0	clear	W. Line.

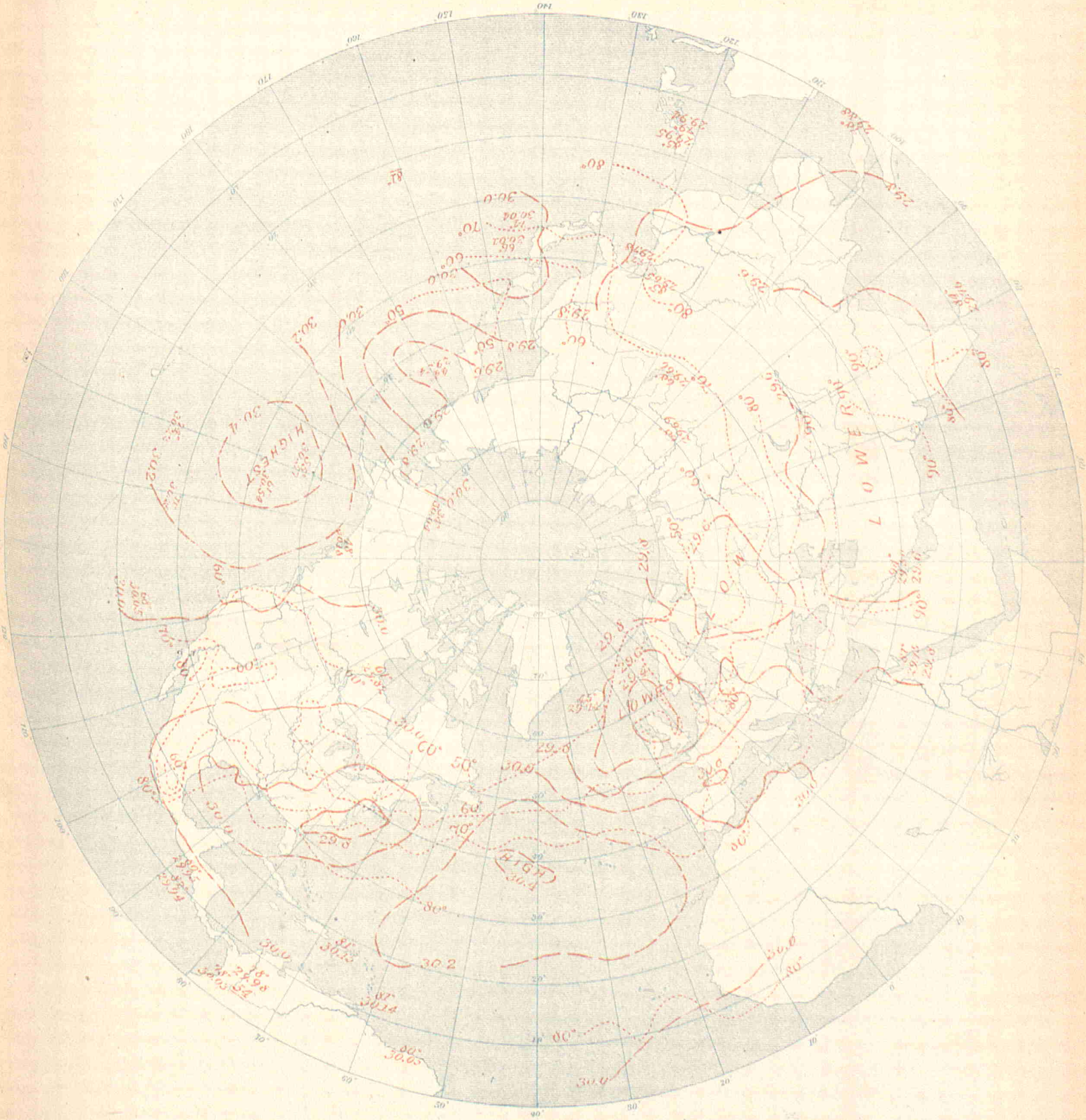
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.71	678.4	29.90	759.4	62	16.7	90	nw.	3	1.3	.....	6 k	0	.....	.....	0.05	1.3	fair	J. H. Jones.
Mobile, Alabama	29.93	760.2	29.97	761.2	70	21.1	76	n.	11	4.9	.....	0	0	.....	.....	0.02	0.5	clear	C. A. Read.
Montgomery, Alabama	29.73	755.1	29.95	760.7	66.3	19.1	75	n.	7	3.1	.....	0	0	.....	.....	0.11	2.8	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.00	736.6	29.96	761.0	60.3	15.7	75	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.93	734.8	29.93	760.2	57.0	13.9	86	calm	0	0	.....	.....	10 s	.....	w.	0.25	6.3	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.79	604.3	29.86	758.4	37.0	2.8	92	e.	32	14.3	.....	.....	10 ks	.....	e.	0.03	0.8	cloudy	J. G. Linsley
Nashville, Tennessee	29.51	749.5	30.03	762.7	64.0	17.8	73	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.69	754.1	29.80	756.9	56	13.3	93	ne.	14	6.3	.....	.....	10 n	.....	ne.	0.26	6.6	light rain	J. H. Sherman.
New London, Connecticut	29.74	755.4	29.78	756.4	60	15.6	93	ne.	7	3.1	.....	.....	10 n	.....	ne.	0.26	6.6	light rain	J. G. Lynch.
New Orleans, Louisiana	29.91	759.7	29.96	761.0	75.5	24.2	61	nw.	12	5.4	.....	0	3 s	.....	nw.	0.01	0.3	clear	L. Dunne.
Newport, Rhode Island	29.78	756.4	29.82	757.4	60.3	15.7	95	n.	10	4.5	.....	.....	10 n	.....	ne.	0.44	11.2	light rain	W. McGillivray.
New York, New York	29.59	751.6	29.76	755.9	58	14.4	96	ne.	26	11.6	.....	.....	10 s	.....	ne.	0.98	24.9	cloudy	J. B. Merrill.
Norfolk, Virginia	29.74	755.4	29.77	756.1	66	18.9	90	n.	9	4.0	.....	.....	10 s	.....	n.	0.48	12.2	threatening	H. L. Kemp.
North Platte, Nebraska	27.15	689.6	29.95	760.7	64.6	18.1	73	e.	9	4.0	.....	0	8 s	.....	.....	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.03	762.7	30.07	763.8	53.0	11.7	90	s.	4	1.8	.....	0	1 s	.....	calm	0	0	clear	J. Dascomb.
Ooglanamie, Pt. Barrow, Alas.	30.02	762.5	30.04	763.0	34.0	1.1	100	s.	3	1.3	.....	.....	10 s	.....	w.	0	0	cloudy	P. H. Ray.
Omaha, Nebraska	29.03	737.3	30.16	766.1	66.8	19.3	60	s.	6	2.7	.....	10 cs	0	sw.	.....	0	0	cloudy	A. Pollak.
Oswego, New York	29.59	751.6	29.91	759.7	58.8	14.9	82	ne.	6	2.7	.....	.....	10 s	.....	e.	0.16	4.1	cloudy	S. W. Beall.
Palestine, Texas	29.52	749.8	30.06	763.5	70.0	21.1	78	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	29.91	759.7	29.94	760.5	72.1	22.3	73	n.	14	6.3	.....	0	0	.....	.....	0.02	0.5	clear	M. McGauran.
Philadelphia, Pa.	29.65	753.1	29.75	755.6	60	15.6	93	ne.	15	6.7	.....	.....	10 n	.....	ne.	0.44	11.2	light rain	T. F. Townsend.
Pike's Peak, Colorado	18.13	460.5	29.91	759.7	38	3.3	79	nw.	8	3.6	.....	3 cs	hz.	w.	.....	0.11	2.8	clear	L. M. Dey.
Pioche, Nevada	24.19	614.4	29.92	760.0	63.8	17.7	70	sw.	2	0.9	.....	4 k	0	s.	.....	0.03	0.8	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	29.06	738.1	29.85	758.2	56.3	13.5	82	nw.	8	3.6	.....	.....	10s; fg	.....	nw.	0.04	1.0	cloudy	J. H. Bryce.
Poplar River, Montana	27.83	706.9	.....	.....	.....	.....	.....	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	29.95	760.7	29.96	761.0	77.5	25.3	82	ne.	18	8.0	.....	0	0	.....	.....	1.20	30.5	clear	M. Hermann.
Port Huron, Michigan	29.32	744.7	29.98	761.5	57.3	14.1	83	n.	4	1.8	.....	8 ck	0	e.	.....	0	0	cloudy	W. O. Bailey.
Portland, Maine	29.89	759.2	29.94	760.5	58.5	14.7	87	ne.	5	2.2	.....	.....	10 s	.....	ne.	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.05	763.3	30.12	765.0	60.0	15.6	87	w.	4	1.8	.....	.....	10 s	.....	sw.	0.42	10.7	cloudy	M. L. Hearne.
Prescott, Arizona	24.95	633.7	29.94	760.5	67	19.4	47	s.	3	1.3	.....	0	8 s	.....	s.	0.38	9.7	cloudy	J. McN. Wright.
Provincetown, Mass.	29.82	757.4	29.84	757.9	58.0	14.4	93	ne.	13	5.8	.....	.....	10 n	.....	ne.	0.21	5.3	light rain	P. T. Jenkins.
Punta Rassa, Florida	29.92	760.0	29.93	760.2	83.5	28.6	72	w.	20	8.9	.....	0	4 ks	.....	w.	0.07	1.8	fair	W. J. Evans.
Red Bluff, California	29.62	752.3	29.98	761.5	71.0	21.7	50	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.77	756.1	30.00	762.0	74	23.3	82	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.26	743.2	29.91	759.7	55	12.8	100	ne.	8	3.6	.....	.....	10 k	.....	e.	0.56	14.2	cloudy	E. W. McGann.
Roseburg, Oregon	29.57	751.1	30.11	764.8	62	16.7	87	calm	0	0	.....	0	9 s	.....	sw.	0.69	17.5	cloudy	J. J. Nanry.
Sacramento, California	29.89	759.2	29.96	761.0	59.8	15.4	75	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.58	751.3	30.16	766.1	62.0	16.7	84	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.28	743.7	30.12	765.0	59	15.0	81	e.	7	3.1	.....	1 c	0	ne.	.....	0	0	clear	P. F. Lyons
St. Vincent, Minnesota	29.03	737.3	29.87	758.7	61	16.1	84	s.	14	6.3	.....	2 ck	2 ks	sw.	.....	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.73	653.5	29.91	759.7	72	22.2	64	se.	4	1.8	.....	5 k	0	sw.	.....	0.02	0.5	fair	J. Craig.
San Antonio, Texas	29.35	745.5	30.03	762.7	76.0	24.4	60	ne.	6	2.7	.....	0	0	.....	.....	0.02	0.5	clear	T. J. Kenan.
San Diego, California	29.88	758.9	29.95	760.7	64.7	18.2	91	sw.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.31	744.5	29.97	761.2	60.0	15.6	81	n.	23	10.3	.....	.....	10 s	.....	n.	0.02	0.5	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.70	754.4	29.73	755.1	60.0	15.6	93	ne.	29	13.0	.....	.....	10 n	.....	ne.	1.10	27.9	light rain	B. A. Blundon.
San Francisco, California	29.99	761.7	30.06	763.5	55	12.8	93	sw.	4	1.8	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.47	596.1	29.97	761.2	65	18.3	52	ne.	5	2.2	.....	5 c	2 k	w.	w.	0	0	fair	H. U. Jones.
Savannah, Georgia	29.71	754.6	29.80	756.9	75	23.9	82	n.	16	7.2	.....	2 c	4 ks	.....	nw.	0.01	0.3	fair	H. W. Ford.
Shaw, Fort, Montana	26.33	668.8	29.84	757.9	66	18.9	75	s.	3	1.3	.....	8 cs	0	w.	.....	0.06	1.5	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.87	758.7	30.10	764.5	69	20.6	70	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.93	734.8	30.13	765.3	65.5	18.6	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Silver City, New Mexico	24.42	620.3	29.88	758.9	60	15.6	50	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	30.12	765.0	30.18	766.6	48.1	8.9	86	sw.	6	2.7	.....	.....	10 n	.....	sw.	0.10	2.5	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.70	754.4	30.16	766.1	65.4	18.6	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	29.71	754.6	29.74	755.4	71	21.7	84	ne.	7	3.1	.....	.....	9 ks	.....	ne.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.96	710.2	29.94	760.5	68	20.0	84	w.	5	2.2	.....	.....	10 n	.....	.....	0.02	0.5	light rain	D. Moore.
Springfield, Illinois	29.50	749.3	30.16	766.1	61	16.1	65	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.75	755.6	29.88	758.9	58.1	14.5	87	n.	6	2.7	.....	.....	10 n	.....	ne.	0.47	11.9	light rain	T. S. Outram.
Springfield, Mo.	28.76	730.5	30.15	765.8	60.5	15.8	83	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Marbury.
Starkville, Miss.	29.50	749.3	29.96	761.0	66	18.9	78	n.	8	3.6	.....	0	0	.....	.....	0.03	0.8	clear	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.08	713.2	29.86	758.4	69	20.6	76	sw.	2	0.9	.....	0	2 s	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.13	689.1	30.07	763.8	64.0	17.8	78	se.	4	1.8	.....	3 c	0	calm	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.83	757.7	29.88	758.9	57.0	13.9	96	ne.	21	9.4	.....	.....	10 s	.....	ne.	0.03	0.8	cloudy	G. Liebmann.
Toledo, Ohio	29.33	745.0	30.00	762.0	57	13.9	74	n.	5	2.2	.....	5 k	0	n.	.....	0.01	0.3	fair	A. Buell.
Tucson, Arizona	27.60	701.0	29.92	760.0	78	25.6	66	s.	4	1.8	.....	3 c	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.63	752.6	29.99	761.7	68	20.0	73	w.	7	3.1	.....	3 ck	2 s	w.	w.	inap.	inap.	fair	J. Daly.
Uvalde, Texas	29.08	738.6	30.02	762.5	78	25.6	91	e.	6	2.7	.....	5 c	0	ne.	.....	0	0	fair	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	76.3	24.6	66	se.	.....	.....	1	.....	10 s	.....	se.	0.31	7.9	cloudy	D. Brooks.
Vicksburg, Mississippi	29.82	757.4	30.06	763.5	70	21.1	70	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. P. Brisbane.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.58	624.3	29.91	759.7	59.5	15.3	73	nw.	5	2.2	.....	0	8 k	.....	.....	0.35	8.9	cloudy	T. M. Ambler.
Washington, D. C.	29.70	754.4	29.81	757.2	61.8	16.6	81	n.	5	2.2	.....	.....	10 k	.....	n.	2.01	51.1	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.12	663.4	29.88	758.9	66.9	19.4	66	calm	0	0	.....	4 cs	0	nw.	.....	0	0	fair	F. W. Brandenburg.
Williamsport, Pa.	29.25	742.9	29.83	757.7	58	14.4	86	calm	0	0	.....	.....	10 n	.....	.....	0.60	15.2	heavy rain	B. F. Hough.
Wilmington, N. Carolina	29.71	754.6	29.76	755.9	72	22.2	82	ne.	8	3.6	.....	3 cs	3 s	w.	ne.	0	0	fair	A. T. Sherwood.
Winnemucca, Nevada	25.71	653.0	29.93	760.2	63	17.2	73	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.82	732.0	30.09	764.3	61	16.1	78	sw.	8	3.6	.....	5 ks	0	s.	.....	0	0	fair	J. H. Atfield.
Yuma, Arizona	29.68	753.9	29.82	757.4	83.2	28.4	72	ne.	1	0.4	.....	.....	10 s	.....	se.	inap.	inap.	cloudy	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.09	561.1	.....	.....	55.0	12.8	67	s.	13	5.8	.....	2 c	6 ks	.....	sw.	0.25	6.3	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I.	30.13	765.3	30.14	765.5	81	27.2	91	e.	.....	.....	.....	.....	10 ks	.....	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.00	762.0	30.03	762.7	78	25.6	86	s.	2	0.9	.....	.....	10 ks	.....	s.	0.30	7.6	cloudy	J. I. Plume.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	85.0	29.4	60	calm	0	0	.....	0	2 ks	.....	e.	0	0	.....	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	76	24.4	.....	calm	.....	.....	0	0	0	.....	.....	0.05	1.3	.....	S. M. Pike.
Navassa	30.02	762.5	30.10	764.5	81	27.2	76	e.	8	3.6	.....	2 k	0	n.	.....	0	0	clear	F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	80	26.7	87	se.	.....	.....	2	5 ck	4 s	e.	.....	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.42	747.3	29.98	761.5	79	26.1	89	calm	.....	.....	0	.....	fg.	.....	.....	inap.	inap.	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	94	ne.	.....	.....	1	3 cs	0	ne.	.....	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	29.99	761.7	30.02	762.5	81	27.2	74	calm	0	0	.....	3 c	0	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A.	29.76	755.9	29.82	757.4	61.0	16.1	82	s.	13	5.8	.....	1 c	2 s	s.	s.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, S. 27° 50′ E. 9° 06′	30.28	769.1	64	17.8	78	s.			1-2		5							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.83	757.7	81.5	27.5	76	nw.			3		0					2	nw.	misty.
H. M. S. Amethyst, Montevideo, Uruguay	30.24	768.1	49	9.4	93	wnw.			3		0							blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.73	755.1	77	25.0		n.			2-3		5	n.						d. clouds.
H. M. S. Bacchante, N. 38° 35′ E 6° 36′	30.00	762.0	78	25.6	77	ssw.			2		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.21	767.3	62	16.7		calm			0		0							blue sky.
H. M. S. Champion, N. 21° 55′, E. 159° 45′			81	27.2	95	e.			3-4		3					3	e.	d. clouds.
H. M. S. Comus, N. 37° 43′, E. 143° 55′	30.01	762.2	66	18.9	78	ene.			2		3					1	ne.	d. clouds.
H. M. S. Diamond, S 7° 38′, E. 153° 43′	29.97	761.2	81	27.2	87	ene.			1-2		10					2	ene.	raining.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.16	766.1	79	26.1		ese.			3		3	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.17	766.3	79.5	26.4	93	se.			3-4		4	ese.						d. clouds.
H. M. S. Dwarf, S. 33° 39′, W. 59° 36′	30.23	767.8	56.5	13.6	80	calm			0		6							d. clouds.
H. M. S. Eclipse, S. 10° 59′, E. 45° 12′	30.07	763.8	78	25.6		sse.			2-3		2					2	ese.	d. clouds.
H. M. S. Emerald, S. 22° 35′, W. 17° 20′	30.28	769.1	71	21.7	100	nne.			3		4	nne.				1-2	nne.	d. clouds.
H. M. S. Euryalus, Trincomalee, Ceylon, India	29.76	755.9	84	28.9	87	sw.			4		9	calm						d. clouds.
H. M. S. Espiegle, S. 16° 18′ E. 167° 42′	30.02	762.5	75	23.9	72	se.			3		7	e.				1	e.	d. clouds.
H. M. S. Fawn, S. 25° 59′, E. 32° 48′	30.32	770.1	69.5	20.8	78	sse.			4		9							d. clouds.
H. M. S. Gannet, S. 15° 30′, W. 76° 05′	30.07	763.8	59.5	15.3	79	sse.			5		10					3	se.	showery.
H. M. S. Garnet, S. 22° 50′, W. 19° 45′	30.29	769.4	70	21.1	84	nne.			4		8					2	nne.	d. clouds.
H. M. S. Griffon, N. 50° 25′, W. 56° 30′	30.05	763.3	50	10.0	71	w.			2		8							d. clouds.
H. M. S. Iron Duke, N. 36° 42′ E. 141° 56′	30.02	762.5	67	19.4	94	ene.			2-3		7	ene.				2	e.	d. clouds.
H. M. S. Kingfisher, N. 32° 25′, W. 117° 10′	30.01	762.2	63	17.2		nnw.			1		9					1	nw.	misty.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.98	761.5	70.3	24.6	98	se.			2		4					1	se.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.02	762.5	54.5	12.5		ne.			1		10							d. clouds.
H. M. S. Magpie, N. 34° 25′, E. 137° 16′	29.97	761.2	74.5	23.6	82	sse.			2		10					2	s.	misty.
H. M. S. Minotaur, Malta, Mediterranean	30.00	762.0	75.5	24.1	70	ne.			1		2							d. clouds.
H. M. S. Nelson, S. 36° 50′, E. 174° 49′	29.74	755.4	55	12.8	80	calm			2		4							raining.
H. M. S. Northampton, Halifax, Nova Scotia	30.00	762.0	56	13.3	97	ese.			1									d. clouds.
H. M. S. Pegasus, N. 1° 27′, E. 103° 47′	29.88	758.9	77.5	25.3	90	e.			0		0							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Is d	30.12	765.0	68	20.0	90	ese.			2		9	ese.						d. clouds.
H. M. S. Rocket, Vancouver Island, B. A.	29.98	761.5	51	10.6	93	nw.			1		3							d. clouds.
H. M. S. Sappho, S. 24° 36′ W. 135° 20′	29.81	757.2	67.5	19.7		se.			6-7		5	se.				8	se.	d. clouds.
H. M. S. Swiftsure, Rio de Janeiro, Brazil	30.31	769.9	67.5	19.7	79	wnw.			1		8							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.28	769.1	46.5	8.1	92	nw.			3-4		4							d. clouds.
H. M. S. Tamar, N. 36° 28′, W. 2° 29′	29.94	760.5	72.5	22.5	71	wsw.			4-5		3	wsw.				3	wsw.	d. clouds.
H. M. S. Tenedos, N. 47° 30′ W. 59° 10′	30.20	767.1	51	10.6	86	e.			3		9					1	ese.	d. clouds.
H. M. S. Thetis, S. 10° 12′, W. 79° 40′	30.03	762.7	63	17.2	88	se.			3		10					3	sse.	overcast.
H. M. S. Triumph, S. 36° 20′ W. 73° 03′	30.22	767.6	51	10.6	100	ene.			1-2		10	calm				7	w.	foggy.
H. M. S. Woodlark, Off Bassorah, Asiatic, Turkey	29.40	746.7	93.5	34.2	64	nw.			2		0							bluesky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.08	764.0	79.9	26.6	87	e.			1		9					1	se.	d. clouds.
Tamega, Macao, China	29.91	759.7	86.0	30.0	78	sw.			2		4							d. clouds.
Swedish Naval.																		
Saga, N. 62° 29′, E. 0° 59′	29.33	745.0	53.4	11.9	99	se.			1		10							overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.92	760.0	72	22.2	67	n.	8	3.6			5		ne.	0.01	0.3			fair.
N. Yard, Portsmouth, N. H	29.94	760.5	56	13.3	94	ne.	21	9.4			10		ne.					sprinkling.
Naval Hospital, Yokohama, Japan*	29.84	757.9	67	19.4	97	calm			0		10		e.	0.31	7.9			light rain.
Adams, Mare Island, Cal	30.07	763.8	59	15.0	94	wsw.			2		10			0	0	sm'h		cloudy.
Alaska, Callao, Peru	30.01	762.2	59	15.0	88	calm			0		10			0	0	sm'h		cloudy.
Alert, N. 46° 35′, E. 174° 24′*	29.78	756.4	51	10.6	93	sse.			8		10		calm			r'gh	sse.	cloudy.
Alliance, Boston, Mass	29.92	760.0	61	16.1	88	ene.			2		07			light	light			overcast?.
Ashuelot, Yokohama, Japan*	29.91	759.7	69	20.6	95	n.			1		10		calm					raining.
Brooklyn, Rio de Janeiro, Brazil	30.35	770.9	64	17.8	94	w.			3		2		w.	0.19	4.8	sm'h		fair.
Colorado, New York, N. Y	29.77	756.1	59	15.0	94	ne.	14	6.3			10		ne.	0.53	13.5			raining.
Constellation, S. 38° 06′, W. 72° 52′*	29.68	753.9	70	21.1	49	sse			3		10		sse.			long	s.	raining.
Enterprise, N. 39° 33′ W. 73° 32′.*	29.87	758.7	64	17.8	100	ene.			7		10		ene.			long	se.	cloudy.
Essex, Tamar Bay, Patagonia	29.03	737.3	45	7.2	76	nne.			2-3		10		ne.			sm'h	ne.	overcast.
Franklin, Norfolk, Va	29.79	756.7	66	18.9	89	nnw.	14.4	6.4			10		nnw.	0.73	18.5			cloudy.
Galena, Alexandria, Egypt	29.85	758.2	78	25.6	95	nw.			3		0					sm'h		clear.
Independence, Mare Island, Cal	30.05	763.3	57	13.9	87	w.			2		10		sw.	0	0			cloudy.
Iroquois, San Francisco, Cal	30.08	764.0	55	12.8	93	sw.			3		10			0	0			cloudy.
Kearsarge, Norfolk, Va	29.77	756.1	69	20.6	90	nnw.			3		10		nw.					drizzling.
Lackawana, Callao, Peru*	29.99	761.7	60	15.6	88	se			1		10							misty.
Lancaster, Alexandria, Egypt*	29.82	757.4	82	27.8	87	nw.			2		0			0	0			clear.
Marion, S. 34° 54′, W. 56° 13′	30.19	766.8	50	10.0	100	nw.			3		5			0	0	sm'h		hazy.
Michigan, Detroit, Mich	29.96	761.0	59	15.0	76	ne.			1		2		ne.					fair.
Minnesota, Newport, R. I	29.86	758.4	60	15.6	94	ne.	6	2.7			10		ne.					raining.
Monocacy, Chefoo, China	29.78	756.4	77	25.0	?	s.			2		2		calm			sm'h		fair.
New Hampshire, Newport, R. I	29.86	758.4	62	16.7	88	ene.			4		10					sm'h		drizzling.
Nipsic, Zante, Greece*	29.87	758.7	77	25.0	58	nne.			3		0					sm'h		clear.
Onward, Callao, Peru†	30.15	765.8	59	15.0	94	sse.			1		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.84	757.9	73	22.8	95	sw.			1		10		calm					cloudy.
Passaic, Washington, D. C	29.84	757.9	61	16.1	88	n.			1		8		n.					cloudy.
Pensacola, S. 0° 30′ W. 81° 30′*	29.89	759.2	69	20.6	90	ssw.			2-3		10		ssw.	0	0	long	s.	cloudy.
Portsmouth, Lisbon, Portugal*	30.03	762.7	68	20.0	84	n.			3		0							clear.
Powhatan, Key West, Fla	30.00	762.0	84	28.9	75	s.			2-3		2					sm'h		clear.
Quinnebang, Alexandria, Egypt	29.84	757.9	79	26.1	82	nnw.			2		0					sm'h		hazy.
Ranger, Mare Island, Cal	30.07	763.8	60	15.6	82	wsw.			1		10		calm	0	0			overcast.
Richmond, Yokohama, Japan*	29.92	760.0	69	20.6	100	nnw.			1		10			0.23	5.8			threatening
Saratoga, Lisbon, Portugal	30.05	763.3	67	19.4	69	n.			2-3		5		n.	light	light	sm'h		fair.
St. Louis, League Island, Pa	29.97	761.2	59	15.0	100	nne.			2		10		se.	0.63	16.0			raining.
Swatara, Yokohama, Japan*	29.85	758.2	69	20.6	90	ese.			2		10		ne.			sm'h		light rain.
Tennessee, off New York, N. Y	29.84	757.9	63	17.2	100	ne.	26	11.6			10			0.89	22.6			rainy.
Vandalia, Portsmouth, N. H*	29.91	759.7	58	14.4	94	nne.			2		10		ne.					cloudy.
Wabash, Boston, Mass	29.89	759.2	62	16.7	88	ne.	3	1.3			10		ne.	0.18	4.6			raining.
Wachusetts, Highfield Harbor, Alaska	30.27	768.8	49	9.4	93	calm			0		10					sm'h		overcast.
Wyoming, Port Royal, S. C	29.76	755.9	74	23.3	86	nnw.	14	6.3			10		ne.	0	0			overcast.
Yantic, off Bangor, Maine	30.00	762.0	63	17.2	89	ne.			1		10							cloudy

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, St. Lawrence River, Canada*	29.96	761.0	65	18.3	.....	ne.	.....	.....	4	.....	10	.....	nne.	0	0	.....	.....	cloudy.
S. S. Scandinavian, N. 50° 43′, W. 32° 17′*	29.82	757.4	56	13.3	.....	wsw.	.....	.....	6	.....	1	.....	.....	sh'rs	sh'rs	short	wsw.	blue sky.
S. S. Waldensian, N. 53° 13′, W. 23° 26′*	29.60	751.8	54	12.2	.....	ssw.	.....	.....	3	.....	10	.....	ssw.	7 h'r	7 h'r	mod.	cross	overcast.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, N. 46° 46′, W. 33° 46′*†	30.12	765.0	.....	.....	.....	wnw.	.....	.....	4	.....	2	.....	wnw.	0	0	sli't	wsw.	fine.
S. S. Lord Gough, Liverpool, Eng	29.34	745.2	69	20.6	.....	w.	.....	.....	6	.....	8	.....	w.	10 h'r	10 h'r	.....	.....	showery.
S. S. Pennsylvania, N. 48° 12′, W. 31° 00′†	30.07	763.8	60	15.6	.....	nw.	.....	.....	5	.....	1	.....	wsw.	.....	.....	mod.	w.	blue sky.
ANCHOR LINE.																		
S. S. Assyria, N. 35° 56′, W. 5° 38′*†	30.21	767.3	68	20.0	.....	wnw.	.....	.....	5	.....	1	.....	wnw.	0	0	sm'h	.....	clear
S. S. Ethiopa, N. 55° 26′, W. 7° 40′	29.31	744.5	58	14.4	93	nne.	.....	.....	3	.....	9	.....	n.	6 h'r	6 h'r	h'vy	w.	cloudy.
S. S. Galatia, N. 39° 06′, W. 9° 31′†	30.09	764.3	62	16.7	.....	nnw.	.....	.....	2	.....	6?	.....	nnw.	0	0	sm'h	nw.	clear ?
S. S. Utopia, N. 41° 51′, W. 58° 48′†	30.28	769.1	68	20.0	100	ssw.	.....	.....	3	.....	8	.....	sw.	7 h'r	7 h'r	con.	.....	cloudy.
ATLAS LINE.																		
S. S. Ailsa, N. 26° 43′ W. 74° 19′†	30.12	765.0	83	28.3	79	sw.	.....	.....	4	.....	5	.....	sw.	0	0	mod.	sw.	fair.
S. S. Alvena, N. 28° 19′, W. 74° 01′†	29.92	760.0	80	26.7	95	ssw.	.....	.....	2-3	.....	8	.....	sw.	0	0	light	ssw.	cloudy.
S. S. Alvo, Kingston, Jamaica, W. I.	30.10	764.5	.....	.....	.....	se.	.....	.....	4	.....	3	.....	se.	0	0	.....	.....	fair.
BOSTON AND HALIFAX LINE.																		
S. S Carroll, Boston, Mass.†	29.96	761.0	.....	.....	.....	ne.	.....	.....	3	.....	.....	.....	ene.	.....	.....	.....	.....	light rain
BRITISH METEOROLOGICAL OFFICE.																		
S. S. Aukland, N. 16° 49′, W. 26° 33′	30.15	765.8	75	23.9	85	ne.	.....	.....	4	.....	8	.....	.....	.....	.....	.....	.....	overcast.
Bk. Arran, S. 8° 39′ W. 77° 11′	29.91	759.7	76.5	24.7	85	sse.	.....	.....	5	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Basil, N. 49° 08′, W. 4° 31′	29.72	754.9	63.5	17.5	71	wsw.	.....	.....	6	.....	8	.....	.....	.....	.....	.....	.....	squally.
S. Baroda, S. 26° 36′, E. 43° 24′	30.22	767.6	73.2	22.9	72	wsw.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
British Merchant, N. 50° 03′, W. 3° 32′	29.59	751.6	58.6	14.8	85	wsw.	.....	.....	6	.....	8	.....	.....	.....	.....	.....	.....	gloomy
S. S. City of Agra, N. 17° 40′, W. 21° 35′	30.15	765.8	75.2	24.0	90	ne.	.....	.....	4	.....	9	.....	.....	.....	.....	.....	.....	d clouds.
S. S. Glencairn, N. 20° 10′, W. 37° 40′	30.23	767.8	76	24.4	86	ene.	.....	.....	6	.....	10	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Gordon Castle, N. 33° 48′, E. 25° 16′	29.85	758.2	81	27.2	74	wnw.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	.....	blue sky
Bkt. May Hulse, S. 25° 05′, W. 23° 53′	30.13	765.3	72	22.2	90	nnw.	.....	.....	5	.....	7	.....	.....	.....	.....	.....	.....	raining.
S. S. Oamaru, S. 29° 18′, E. 43° 35′	30.19	766.8	69.5	20.8	79	wsw.	.....	.....	3-4	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Pole Star, N. 10° 09′ W. 28° 23′	30.12	765.0	77.6	25.3	98	ssw.	.....	.....	3	.....	6	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Rosetta, N. 20° 43′, E. 114° 43′	29.91	759.7	83.5	28.6	83	se.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
CUNARD LINE.																		
S. S. Gallia, N. 48° 08′, W. 31° 57′	30.07	763.8	62	16.7	83	w.	.....	.....	6	.....	2	.....	wnw.	0	0	mod.	nw.	fine.
S. S. Marathon, N. 45° 28′, W 43° 12′	30.32	770.1	65	18.3	.....	w.	.....	.....	2	.....	6	.....	w.	0	0	mod.	w.	cloudy.
S. S. Scythia, N. 47° 50′, W. 28° 42′	30.05	763.3	65.5	18.6	90	wnw.	.....	.....	4	.....	4	.....	nw.	0	0	sli't	wnw.	fine.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N 46° 58′, W. 31° 20′†	30.11	764.7	55.4	13.0	.....	wnw.	.....	.....	5	0	.....	wnw.	.....	0	0	h'vy	wnw.	clear.
S. S. Ville de Marseilles, Marseilles, France*†	29.85	758.2	70	20.1	.....	s.	.....	.....	3	.....	7	.....	ssw.	0	0	.....	.....	.....
GUION LINE.																		
S. S. Arizona, N. 48° 37′, W. 35° 02′	30.09	764.3	58	14.4	.....	wsw.	.....	.....	5	.....	3	.....	w.	0	0	mod.	w.	.....
S. S. Wisconsin, N. 49° 45′, W. 22° 50′	29.74	755.4	62	16.7	72	nw.	.....	.....	5	.....	10	.....	nw.	4 h'r	4 h'r	long	nw.	showery.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 50° 24′, W. 0° 47′†	29.70	754.4	.....	.....	.....	w.	.....	.....	5	.....	2	.....	wnw.	1 h'r	1 h'r	mod.	w.	.....
S. S. Cimbria, N. 40° 58′, W. 52° 48′	30.29	769.4	75	23.9	.....	sw.	.....	.....	5	.....	4	.....	wsw.	0	0	mod.	wsw.	fair.
S. S. Gellert, N. 47° 30′, W. 31° 37′	30.13	765.3	62	16.7	.....	wnw.	.....	.....	5	.....	2	.....	nw.	0	0	long	w.	fair.
S. S. Herder, New York, N. Y. *†	30.04	763.0	65	18.3	.....	w.	.....	.....	3	.....	10	.....	w.	5 h'r	5 h'r	.....	.....	covered.
S. S. Silesia, N 49° 35′, W. 10° 03′†	29.89	759.2	.....	.....	.....	w.	.....	.....	6	.....	7	.....	w.	0	0	6	.....	cloudy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 39° 00′, W. 13° 30′*†	30.32	770.1	68	20.0	.....	w.	.....	.....	4	.....	3	.....	w.	1 h'r	1 h'r	sm'h	.....	clear.
MALLORY LINE.																		
S. S. Colorado, N. 26° 40′, W 80° 02′†	29.95	760.7	81	27.2	.....	ssw.	.....	.....	4	.....	3	.....	ssw.	sh'rs	sh'rs	mod.	ssw.	fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 36° 01′, W. 69° 24′†	29.94	760.5	80	26.7	91	sw.	.....	.....	6	.....	.....	.....	sw.	8 h'r	8 h'r	mod.	sw.	squally
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, Santos, Brazil	29.87	758.7	.....	.....	.....	var.	.....	.....	3	.....	.....	.....	se.	0	0	.....	.....	fine.
S. S. Glenapp, N. 23° 17′ W. 60° 55′†	30.23	767.8	.....	.....	.....	ene.	.....	.....	4	.....	4	.....	ene.	0	0	sm'h	.....	fine.
NATIONAL LINE.																		
S. S. Canada, N. 40° 47′ W. 57° 46′†	30.09	764.3	73	22.8	.....	ssw.	.....	.....	3	.....	8	.....	wsw.	0	0	high	ssw.	cloudy.
S. S. Denmark, London, Eng	29.69	754.1	59	15.0	.....	sw.	.....	.....	5	.....	10	.....	ssw.	2 h'r	2 h'r	.....	.....	raining.
S. S. England, Mersey River, Eng	29.49	749.0	.....	.....	.....	wsw.	.....	.....	6	.....	8	.....	wsw.	3 h'r	3 h'r	.....	.....	squally.
S. S. Erin, Liverpool, Eng	29.86	758.4	57	13.9	.....	wsw.	.....	.....	5	.....	4	.....	w.	6 h'r	6 h'r	.....	.....	squally.
S. S. Greece, N. 46° 08′, W. 32° 31′	30.18	766.6	.....	.....	.....	nnw.	.....	.....	3	.....	2	.....	nnw.	0	0	sm'h	sw.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, St. Jago, Cuba, W. I.†	30.10	764.5	82	27.8	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Vera Cruz, Mexico†	30.12	765.0	81	27.2	87	sw.	.....	.....	3	.....	5	.....	ene.	0	0	.....	.....	fair.
S. S. City of Washington, Havana, Cuba, W. I*†	30.20	767.1	84	28.9	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	fine.
NORTH GERMAN LLOYD.																		
S. S. Habsburg, N. 44° 10′, W. 37° 35′	30.35	770.9	68.0	20.0	.....	w.	.....	.....	4	.....	0	.....	.....	0	0	mod.	w.	clear.
S. S. Hermann, N. 45° 59′ W. 35° 58′	30.26	768.6	68.0	20.0	.....	w.	.....	.....	5	.....	8	.....	w.	0	0	cross	w.	fair.
S. S. Leipzig, N. 41° 27′, W. 46° 38′	30.41	772.4	72.0	22.2	?	wsw.	.....	.....	4	.....	10	.....	.....	1 h'r	1 h'r	mod.	sw.	hazy.
S. S. Mosel, N. 49° 47′, W. 7° 29′	29.72	754.9	55.4	13.0	.....	w.	.....	.....	6	.....	8	.....	w.	6 h'r	6 h'r	r'gh	wnw.	cloudy.
S. S. Ohio, Bremerhaven, Germany	29.62	752.3	.....	.....	.....	se.	.....	.....	2	.....	4	.....	ese.	0	0	.....	.....	fair.
S. S. Rhein, N. 41° 29′ W. 49° 06′	30.32	770.1	.....	.....	.....	sw.	.....	.....	4	.....	7	.....	sw.	2 h'r	2 h'r	mod.	sw.	cloudy.
S. S. Salier, N. 37° 46′ W. 72° 50′	29.70	754.4	61.7	16.5	.....	sse.	.....	.....	4	.....	10	.....	w.	6 h'r	6 h'r	long	w.	light rain
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 24° 52′, E. 119° 27′†*	29.74	755.4	82	27.8	91	s.	.....	.....	4	.....	2	.....	s.	0	0	sm'h	.....	blue sky
S. S. Belgic, San Francisco, California†	30.09	764.3	55	12.8	73	wsw.	.....	.....	4	.....	10	.....	sw.	.....	.....	.....	.....	foggy.
S. S. Coptic, N. 34° 24′. E. 141° 56′	30.04	763.0	73.5	23.1	90	s.	.....	.....	2	.....	7	.....	sw.	0	0	1	.....	blue sky
S. S. Gaelic, N. 46° 41′, W. 152° 59′†	30.57	776.5	55	12.8	62	se.	.....	.....	3	.....	7	.....	se.	.....	.....	mod.	e.	cloudy.
S. S. Oceanic, Hong Kong, China*	29.73	755.1	88	31.1	69	s.	.....	.....	3	.....	2	.....	var.	.....	.....	.....	.....	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	29.85	758.2	.....	.....	.....	nnw.	.....	.....	2	.....	6	.....	n.	0	0	.....	.....	clear?
S. S. City of Columbus, Savannah, Ga.†	29.93	760.2	.....	.....	.....	nnw	.....	.....	4	.....	10	.....	nnw.	2 h'r	2 h'r	.....	.....	cloudy
S. S. Seminole, Boston, Mass.†	30.02	762.5	64	17.8	89	ne.	.....	.....	4	.....	10	.....	e.	8 h'r	8 h'r	.....	.....	raining.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 43° 30′, W. 124° 48′†	30.13	765.3	51	10.6	93	nnw.	.....	.....	1	.....	5	.....	nnw.	.....	.....	.....	.....	hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal†	30.00	762.0	54	12.2	93	w.	.....	.....	1	.....	10	.....	w.	.....	.....	.....	.....	foggy.
S. S. State of California, Portland, Oregon†	30.18	766.6	52	11.1	72	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	.....	clear.
S. S. Victoria, Nanaimo, Vancouver's Island, B. C.†	29.90	759.5	57	13.9	93	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, Australia	30.20	767.1	53	11.7	95	sw.	.....	.....	4	.....	1	.....	sw.	0	0	.....	.....	clear.
S. S. City of New York, N. 29° 06′, W. 140° 16′†	30.25	768.3	71	21.7	71	ne.	.....	.....	1	.....	5	.....	ne.	0	0	sm'h	.....	fair.
S. S. City of Pekin, Yokohama, Japan.†	30.03	762.7	73	22.8	90	ssw.	.....	.....	1	.....	10	.....	sw.	0	0	sm'h	.....	overcast.
S. S. City of Sydney, Sydney, N. S. W.†	30.17	766.3	58	14.4	64	w.	.....	.....	3	.....	2	.....	w.	0	0	sm'h	.....	clear.
S. S. City of Tokio, N. 42° 33′, W. 145° 56′†	30.64	778.2	61	16.1	77	ene.	.....	.....	2	.....	10	.....	ne.	0	0	small	n.	fair.
S. S. Colon, N. 26° 48′, W. 74° 00′†	30.10	764.5	83	28.3	.....	s.	.....	.....	4	.....	3	.....	ssw.	0	0	mod.	ssw.	fair.
S. S. Colima, N. 11° 39′, W. 87° 46′†	29.94	760.5	82	27.8	71	ne.	.....	.....	6	.....	2	.....	e.	0	0	mod.	ene.	fair.
S. S. Grenada, La Libertad, San Salvador†	29.95	760.7	80	26.7	?	nne.	.....	.....	3	.....	2	.....	n.	0	0	light	sw.	clear.
S. S. Zealandia, N. 25° 57′, W. 150° 29′	30.22	767.6	74	23.3	86	ne.	.....	.....	4	.....	8	.....	ne.	.....	.....	mod.	ne.	squally
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, Barbadoes, W. I.	29.97	761.2	82	27.8	.....	ene.	.....	.....	3	.....	10	.....	.....	0	0	sm'h	.....	overcast.
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	29.84	757.9	66	18.9	79	sw.	.....	.....	6	.....	7	.....	wsw.	4 h'r	4 h'r	.....	.....	cloudy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
Red Star Line.—Continued.																		
S. S. Rhynland, N. 48° 55′, W. 22° 15′	29.91	759.7	57	13.9	81	wnw.			6		10		wnw.	0.02	0.5	high	wnw.	cloudy.
S. S. Switzerland, N. 45° 23′, W. 35° 08′†	30.34	770.6				w.			3		2		w.	0	0	mod.	w.	fair.
S. S. Vaderland, N. 49° 31′, W. 9° 16′	29.68	753.9	61	16.1	82	w.			5		10		wnw.	0	0	r'gh		cloudy.
Rotterdam Line.																		
S. S. Schiedam, N. 45° 52′, W. 42° 00′*	30.28	769.1	61.7	16.5	83	wnw.			4		9		w.	1 h'r	1 h'r	mod	w.	cloudy.
S. S.W. A Scholten, N. 49° 09′, W. 19° 15′	29.75	755.6	58.8	14.9	88	wsw.			5		8		w.	5 h'r	5 h'r	r'gh	w.	
State Line.																		
S. S. State of Florida, N 43° 53′, W. 40° 19′	30.29	769.4	70	21.1		wnw.			1		2			0	0	sm'h		fair.
S. S State of Indiana, N. 40° 44′, W. 68° 31′†	29.94	760.5	65	18.3		s.			2		8		se.	18 h'r	18 h'r	cross		cloudy.
Thingvalla Line.																		
S. S. Thingvalla, N. 57° 07′, W. 17° 57′†	29.83	757.7	55.4	13.0		nw.			3		7		nw.	3 h'r	3 h'r	r'gh	nw.	covered.
Warren Line.																		
S. S. Iowa, N. 47° 27′, W. 29° 32′*†	30.21	767.3	60	15.6		wnw.			5		2		wnw.	4 h'r	4 h'r	mod.	wnw.	clear.
White Star Line.																		
S. S. Baltic, N. 42° 59′ W. 44° 35′†	30.48	774.2	75	23.9	90	sw.			3		5		wsw.	0	0	sm'h	sw.	d. clouds.
S. S. Britannic, N. 43° 43′, W. 47° 23′†	30.29	769.4	57	13.9	94	s.			2		fg.					sm'h		foggy.
S. S. Celtic, New York. N. Y†	29.77	756.1	60	15.6	?	ne.			5		10		ne.	20 h'r	20 h'r			drizzling.
S. S. Republic, N. 46° 12′, W. 33° 47′†	30.33	770.4	66	18.9	79	w.			4		2		wnw.	0	0	mod.	w.	d clouds.
Wilson Line.																		
S. S. Romano, N. 41° 19′, W. 47° 40′	30.35	770.9	67	19.4		sw.			5		6		sw.	0	0	sm'h		clear.
Miscellaneous.																		
Schr. Addie Fuller, Bath, Me†	30.00	762.0	58.5	14.7	90	calm			0		10 s			0	0			cloudy.
Schr. Ajax, Indianola, Texas						nw.			1		7		nw.	0	0			fair.
Bk. Alpha, New York, N. Y†	29.79	756.7	62	16.7		ene.			9		10		ne.	12 h'r	12 h'r			heavy rain.
Schr Annie Lewis, N. 26° 45′, W. 93° 50′†	30.11	764.8	81	27.2		w.			4		8		w.	0	0	long	sw.	cloudy.
Bk. Anna Thormann, S. 35° 00′ W. 12° 36′	30.19	766.8	59.7	15.4	64	wsw.			5		3 ks		wsw.	0	0	mod.	sw.	clear.
S. S. Antonio Lopez, Barcelona, Spain	29.87	758.7	74.5	23.6	98	s.			2		10			0	0			cloudy.
S. Argonaut, N. 57° 38′ W. 0° 01′*†	29.43	747.5	56.8	13.8		sse.			4		9		s.	7 h'r	7 h'r	mod.	s.	covered.
Schr. Asa Eldridge, Punta Rassa, Fla†	30.27	768.8				w.			4		3		w.	0	0	sm'h		fair.
Bk. Aureola, S. 16° 18′, W. 38° 12′*†	30.37	771.4	78	25.6		se.			4		10		sse.	4 h'r	4 h'r	mod	s.	cloudy.
Bk. Bergenseren, N. 44° 56′, W. 61° 50′†	30.12	765.0				e.			4		fg.		se.	0	0	3	ssw.	foggy
Bk. Cato, N. 45° 30′, W. 36° 00′*†	30.63	778.0				w.			3		1		wnw.	0	0	sm'h	wnw.	clear.
Schr. C. R. Flint, Cedar Keys, Florida†	30.02	762.5	78	25.6		nw.			1		2		w.	0	0			clear.
Schr. Edith R. Seward, St. John's, Antigua, W I*†	30.15	765.8	82	27.8		e.			2		2		e.	6 h'r	6 h'r	sm'h		clear.
S. E. J. Spicer, N. 41° 16′, W. 68° 55′†	29.90	759.4				w.			5		10		se.	11 h'r	11 h'r	mod.	sw.	dense fog.
S. Enoch Train, N. 38° 50′, W. 73° 30′*†	29.73	755.1				s.			1		10		s.	6 h'r	6 h'r	long	se.	threatening
Bk. Essex, S. 30° 00′ W. 21° 00′*†	30.20	767.1	62	16.7		sw.			3		9		sw.	10 h'r	10 h'r	long	w.	rainy.
Bk. Freya, N. 41° 39′ W. 62° 41′			61	16.1		ssw.			6		10		wsw.	5 h'r	5 h'r	mod.	s.	squally.
S. Grecian, Hong Kong, China*†	29.92	760.0	86	30.0		calm			0		5?		se.	1 h'r	1 h'r			clear?
Bk. Hattie G. McFarland, Portland, Me*†	29.97	761.2	60	15.6		ene.			1		10		ese.	12 h'r	12 h'r			cloudy.
S. Hedwig, N. 36° 35′, W. 1° 03′	29.95	760.6	77.2	25.1	79	w.			6		4		w.	0	0	sm'h	w.	hazy.
Bk. Horace Scudder, N. 33° 35′, W. 72° 00′†	29.89	759.2	75	23.9		wsw.			6		10			6 h'r	6 h'r	long	sw.	rainy.
S. Ivy, N. 23° 00′, W. 125° 45′†	30.25	768.3	68	20.0		e.			1		10			0	0	mod.	e.	foggy.
S. Ismir, S. 44° 55′, E. 28° 08′†	30.12	765.0				s.			5		10		s.	4 h'r	4 h'r	high	sw.	
Schr. Jennie N. Huddell, Camden, N. J†	29.95	760.7	64	17.8	89	ene.			1		10			light	light			light rain
Schr. John L. Thomas, Vivorilla Cays, C. A*†	30.09	764.3				ene.			3		2		ene.	0	0			clear.
Bg. John Wesley, N. 32° 11′ W. 70° 31′†	29.97	761.2				sw.			4		5		sw.	2 h'r	2 h'r	[illegible]vy	cross	hazy.
Bk. Joseph A. Ropes, N. 13° 19′, W. 30° 52′*†	30.15	765.8	80	26.7	82	ne.			4		9		ne.	0	0	mod.	ne.	cloudy.
Bkt. Josephine, N. 40° 17′ W. 69° 49′†	29.78	756.4	59	15.0	94	ne.			5		fg			12 h'r	12 h'r	cross	ne.	heavy rain.
S. S. Lamperts, N. 26° 21, E. 34° 39′*	29.65	753.1	81.0	27.2	70	nw.			6		0							misty.
Light House Tender, Laurel, Key West, Florida†	30.04	763.0	84	28.9		sw.			2		6		sw.	0	0			fair.
Bk. Liberia, N. 10° 07′, W. 16° 09′*	30.07	763.8	77	25.0	86	w.			3		7							
S. S. Malabar, N. 48° 53′, E. 174° 38′*†	29.48	748.8							9					16 h'r	16 h'r	r'gh		raining.
Bk. Orpheus, N. 47° 45′, W. 11° 03′	29.99	761.7	60	15.6		wnw.			5-6		8 k		wnw.	0	0	mod.	wnw.	squally.
S. Paramita, S. 25° 40′ W. 92° 28′†	30.14	765.5	73	22.8		nnw.			4		3		wsw.	2 h'r	2 h'r	long	sw.	clear.
S. S. Ponca, Mouth Amazon River, Brazil†	29.91	759.7	87	30.6		e.			1		1		e.	2 h'r	2 h'r			clear.
Bk. Rosebud, S. 34° 08′, E. 17° 10*†	30.20	767.1	60	15.6	94	e.			6		10			rain	rain		s.	raining.
S. S. Sunbeam, N. 38° 27′, E. 25° 06′	29.84	757.9	74	23.3	68	n.			2		0							blue sky.
S. Sovereign of the Sea, N. 14° 17′, W. 32° 19′*†	30.04	763.0	79	26.1	86	ene.			5		9		e.	0	0	cross		overcast.
Bg. Teneriffe, Cardenas, Cuba, W. I	30.07	763.8				calm			0									
Bk. Truro, N. 48° 42′, W. 25° 00′*†	29.90	759.4				wnw.			6		10		wnw.	0	0	mod.	nw.	threatening.
U.S.F.C.S.S.Fish Hawk, Washington, D. C.†	30.00	762.0	63	17.2	100	n.			2		9		nnw.	0.65	16.5			cloudy.
S. S. Victoria J Peed, Kingston, Jamaica*†	30.00	762.0				ne.			1		2							
Schr Viola Reppard, Baltimore, Md†	29.75	755.6	71	21.7		nnw.			2		10		nnw.	0	0			cloudy.
Bk. Wm. Wilcox, S. 22° 10′ W. 39° 00′*†	30.40	772.1	72	22.2		ese.			3		10		ese.	16 h'r	16 h'r	mod.	e.	threatening
S. Wm. Woodbury, N. 45° 18′ W. 23° 32′*	30.06	763.5	68	20.0	74	nw.			4		6?		nw.	mist	mist	long	wsw.	covered.?

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 6, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.96	761.0	81.7	27.6	66	w.			5		1			0	0	very fair	Bouvier.
Algiers			29.97	761.3	83.1	28.4	39	nnw.			3		0			0	0	clear	Nicolas.
La Calle			29.55	760.7	84.2	29.0	59	nw.			5		2			0	0	fair	Fonfrède.
Tunis			29.97	761.3															Jacques.
Saida			30.03	762.7	91.0	32.8	20	ese.			3		0			0	0	clear	Peres.
Tebessa			30.05	763.2	89.6	32.0	21	nnw.			1		2			inap.	inap.	fair	Derché.
Geriville					95.0	35.0	5	nw.			1		1			0	0	very fair	Lonchamp.
Laghouat			30.05	763.2	89.6	32.0	42	e.			2		1			0	0	very fair	Abraham.
Biskra			30.04	762.9	98.6	37.0	28	se.			3		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.68	753.9	29.78	756.4	57.0	13.9	56	n.	23	10.3			2			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.29	744.0	29.82	757.3	75.4	24.1	50	sw.			3		7			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.00	736.6	29.74	755.4	67.8	19.9	63	wsw.	15.0	6.7			10			0	0		Dr. Wierzbiski.
Eperies	28.86	733.1	29.70	754.4	70.7	21.5	57	calm			0	4 cs	0			0	0		Julius Mikolik.
Gratz	28.66	727.9	29.87	758.7	67.8	19.9	82	sw.			3		3			0	0		Andreas Rospini.
Hermannstadt	28.43	722.0	29.77	756.2	78.3	25.7	35	nw.			4		3			0	0		Prof. A. Gottschling
Kremsmünster, Obs'y	28.54	724.8	29.84	757.9	65.1	18.4	59	wnw.			1		10			0.165	4.2	raining	The Staff.
Lemberg	28.95	735.3	29.89	759.3	74.3	23.5	48	sw.			3		8			0.110	2.8		Dr. T. Stanecki.
Poln	29.80	756.8	29.90	759.5	79.7	26.5	61	sse.			2		8			0	0		I. R. Hydrographic Office.
Szathmar	29.32	744.6	29.76	755.9	79.7	26.5	33	sw.			3		4			0	0		Joseph Midlinszky, S. J.
Szegedin	29.56	750.9	29.83	757.7	74.5	23.6	51	s.			2		6			0	0		Karl Stancel.
Trieste	29.80	756.8	29.90	759.4	80.2	26.8	50	sw.			2		10			0	0		Royal Academy.
Vienna	29.17	740.9	29.86	758.5	68.4	20.2	54	w.			3		9			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.09	738.9	29.18	741.2	56.6	13.7	85	s.	10	4.5			7			0.120	3.0	thnd'r st'rm	W. Boswell
Armagh, Observatory	28.93	734.8	29.16	740.7	56.3	13.5	85	s.	5	2.2			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.27	743.4	59.0	15.0	81	sw.	10	4.5			9					raining	John Hartnup.
Bolton, Sharples	28.76	730.5	29.28	743.7	57.3	14.1	85	ssw.	12	5.4			8					raining	Thomas Mackereth, [ton.
Bradford, Yorkshire	28.90	734.0	29.29	744.0	61.6	16.4	61	sw.			1		9			0.36	9.1	overcast	McLandsborough & Pres-
Bridgetown, Barbadoes	30.08	764.0	30.11	764.8	83.0	28.3	67	ne.			3		2					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.38	746.2	66.0	18.9	83	sw.			6.0		8					thnd'r storm	John McLaren.
Chatham, School M. E.	29.37	746.0	29.50	749.3	61.4	16.3	74	sw.			4		9			blank	blank	misty	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.15	740.4	29.37	746.0	59.9	15.5	68	wsw.			5		8					foggy	The Staff.
Fort Napier, Natal	27.86	707.6	30.08	764.0	72.6	22.6	27	e.			2		4					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.66	753.4	29.89	759.2	86.0	30.0	72	w.			1		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.96	761.0	30.01	762.2	79.9	26.6	71	w.			4		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	28.99	736.3	29.19	741.4	60.8	16.0	68	wsw.			5		5					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.30	744.2	29.46	748.3	62.7	17.1	77	wsw.			1		9					showery	The Staff.
Guernsey	29.26	743.2	29.56	750.8	56.0	13.3	93	s.			4		10			blank	blank	overcast	A. Collenette, F. M. S.
Kew, Observatory	29.44	747.8	29.48	748.8	59.4	15.2	81	sw.	19	8.5			9					raining	The Staff.
Leicester, Museum	29.10	739.1	29.35	745.5	64.5	18.1	65	sw.			3		6					d. clouds	J. C. Smith.
Malta, Mediterranean	29.93	760.2	30.00	762.0	79.2	26.2	71	ne.			1		1					blue sky	I. H. Whysall.
Nassau, Bahamas	30.06	763.5	30.11	764.8	85.5	29.7	68	se.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.84	732.5	29.34	745.2	59.1	15.1	81	ssw.			6		8					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.19	741.4	29.42	747.3	61.9	16.6	70	s.			5		10					threatening	The Staff.
Plymouth	29.29	744.0	29.36	745.7	58.9	14.9	90	sw.			5		7					squally	John Merrifield.
Sandwick Manse, Orkneys			29.16	740.7	59.8	15.4	87						0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.84	757.9	29.90	759.4	84.0	28.9	31	ne.			1		2					d. clouds	W. H. Lyne.
Sheffield	29.04	737.6	29.31	744.5	66.3	19.1	64	sw.			3		10			0.09	2.3	overcast	W. F. Cooper.
Sillioth Rectory	29.21	741.9	29.24	742.7	58.1	14.5	82	sw.			3		6			0.665	16.9	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.32	744.7	62.0	16.7	66	ssw.	19	8.5			7					d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.24	742.7	29.46	748.3	61.8	16.6	77	sw.			3-4		9			blank	blank	squally	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.36	745.7	29.37	746.0	62	16.7	77	sw.			7		10					raining	W. Newcombe.
Valencia, Observatory	29.19	741.4	29.22	742.2	54.1	12.3	94	w.	34	15.2			10					raining	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.95	760.7	29.99	761.7	56	13.3	94	e.	6	2.7			10 n		calm	0.530	13.5	threatening	H. J. Cundall, C. E.
Chatham, N. B*	29.96	761.0	30.02	762.5	54	12.2	96	w.	4	1.8			10 n		w.	0.01	0.3	light rain	G. A. Blair.
Father Point, Quebec*	29.96	761.0	29.98	761.5	49	9.4	96	ne.	18	8.0			10 n		se.	0.46	11.7	heavy rain	J. McWilliams.
Fort Garry, Manitoba*	28.90	734.0	29.71	754.6	53	11.7	93	n.	3	1.3		3 ck	0	w.		0	0	fair	James Stewart.
Halifax, N. S*	29.88	758.9	30.01	762.2	53	11.7	100	s.	2	0.9			10 n			1.736	44.1	light rain	A. Allison.
Kingston, Ontario*	29.56	750.8	29.89	759.2	59	15.0	84	n.	10	4.5		0	5 ks		n.	0.42	10.7	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.58	751.3	29.78	756.4	57	13.9	96	e.	2	0.9			10 n			0.47	11.9	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.27	743.4	29.94	760.5	59	15.0	87	calm	0	0		0	0			0.30	7.6	clear	Rev. R. Mosley.
Port Dover, Ontario	29.31	744.5	29.99	761.7	58	14.4	88	w.	3	1.3		0	0			0.05	1.3	clear	H. Morgan.
Port Stanley, Ontario	29.36	745.7	30.00	762.0	57	13.9	86	w.	6	2.7		0	0			0.07	1.8	clear	M. Payne.
Quebec, Quebec*	29.53	750.0	29.84	757.9	55	12.8	100	e.			6		10 n		e.	0.28	7.1	light rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.48	748.8	29.93	760.2	54	12.2	93	w.	4	1.8			10 ks		nw.	0.17	4.3	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.28	743.7	29.98	761.5	54	12.2	?	sw.	10	4.5		0	0			inap.	inap.	clear	
St. Andrews, N. B	29.81	757.2	29.86	758.4	54	12.2	94	se.	8	3.6			fg.			0.31	7.9	foggy	
Sydney, C. B*	29.99	761.7	30.05	763.3	50	10.0	100	ne.	8	3.6			10 n			0.96	24.4	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.59	751.6	29.97	761.2	60	15.6	78	nw.	7	3.1		0	0			0.21	5.3	clear	Magnetic Observatory.
Yarmouth, N. S*	29.82	757.4	29.88	758.9	60	15.6	96	s.	6	2.7			fg.			0.19	4.8	foggy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
Mount Forest	28.59	726.2	30.06	763.5	51.0	10.6	93	nw.			1	0	0			0	0	clear	Wm. Wylie.
St. Johns, Newfoundland	30.12?	765.0?	30.37?	771.4?	50	10.0	100	e.	2	0.9			fg.			0.32	8.1	raining	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.13	765.3	30.16	766.1	66.0	18.9	78	calm	15.8	7.1			10 ks			0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.13	765.3	30.17	766.3	60.0	15.6	98	nnw.	23	10.3		10	10			0.050	1.3		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.69	754 2	29.72	754.8	73.4	23.0	87	nnw.	12.3	5.5			8			0.512	13.0	al. covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.49	749.0	29.54	750.2	60.8	16.0	91	sw.	10.1	4.5			10						Oversergent Fischer.
Fanöe	29.47	748.5	29.49	749.0	63.7	17.6	77	wsw.			4		4						Overloeerer Lauridsen
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.62	752.3	29 66	753.4	41.7	5.4	74	ne.			8		2						A. O. Thoriacius.
Thorshavn	29.17	740.8	29.20	741.7	57.0	13.9	88	ne.	9	4			7					foggy	Overloeerer Bergh.
Vestervig	29.35	745.6	29.45	747.9	63.9	17.7	79	sw.			6		7						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.44	747.7	30.10	764.6	75.9	24.4	57	se.			1		kn		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.15	740.5	29.71	754.5	62.6	17	92	ssw.			4		n			0.134	3.4		M. Nicot, Director.
Arras, Engineer School	29.34	745.2	29.59	751.6	60.1	15.6	85	nw.			4		n		nw.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.83	757.6	29.91	759.6	77.0	25	49	n.			1					0	0		M. Giraud, Director.
Bar-sur-Seine	29.27	743.5	29.82	757.4	61.9	16.6	78	s.			1		8		w.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.43	747.5	29.69	754.0	67.3	19.6	57	wsw.			2		10		wsw.	0.098	2.5	covered	M. Frère Eugène Marié.
Besançon, Normal School	28.93	734.7	29.79	756.6	69.4	20.8	58	ssw.			2	0	5 cn		sw.	0.429	10.9	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.56	750.9	29.82	757.4	70.9	21.6	45	sw.			1		10			0.016	0.4	covered	M. Rayet, Director.
Bourges, Normal School	29.28	743.6	29.81	757.2	68.0	20	50	sw.			1		k		sw.	0.08	2.		M. Malet, Director.
Brest, Naval Observatory	29.35	745.5	29.60	751.7	59.4	15.2	91	sw.			3		10		sw.	0.071	1.8		M. de Kermaree, Dir.
Caen, Normal School	29.60	751.9	29.67	753.7	56.3	13.5	96	s.			4		10		s.	0.098	2.5	covered	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.43	747.5	29.74	755.3	62.2	16.8	73	ssw.			4		8			0.240	6.1	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.19	741.5	29.69	754.1	65.1	18.4	56	w.			4					0.16	4.		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.48	723.3	29.78	756.3	73.8	23.2	45	ese.			2	5 ck	0			0.008	0.2	½ covered	M. Allnard, Director.
Cluny, Normal School	29.03	737.4	29.95	760.8	69.4	20.8	45	sw.			6		5		e.	0.173	4.4		M. de Villemontée, Dir.
Commercy, Normal School	28.94	735.0	29.78	756.4	63.5	17.5	62	w.			2		5 kn	w.	w.	0.091	2.3	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.52	699.0	29.97	761.3	70.7	21.5	44	e.			1		9 n		ne.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.82	732.0	29.89	759.1	79.9	26.6	29	sw.			2		4		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.10	739.2	29.84	758.0	69.4	20.8	65	wnw.			1		10			0.91	23.	covered	M. Ablard, Director.
Guéret, Normal School	28.27	718.1	29.83	757.7	62.6	17	53	sw.			4	0	8 n		sw.	0.035	0.9	very cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.30	744.3	29.57	751.1	57.2	14	86	s.			4		8		s.	0.138	3.5	raining	M. Olitrault, Director.
Lescar, Normal School	29.27	743.5	29.82	757.3	76.1	24.5	44	ne.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.56	750.8	29.66	753.4	59.0	15.0	89	sw.			3		10			0.008	0.2	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.83	732.2	29.85	758.2	69.8	21.0	53	s.			2	10 c	0	w.		0.303	7.7	covered	M. André, Director.
Mans, Normal School	29.41	747.0	29.71	754.6	61.7	16.5	81	s.			4		10			0.453	11.6	covered	M. Piboen, Director.
Marseille, Observatory	29.67	753.6	29.93	760.2	73.2	22.9	50	wsw.			1		6		wsw.	0	0		M. Stephan, Director.
Montlouis	24.78	629.4	29.62	752.4	65.3	18.5	44	sw.	18.6	8.3			3	nw.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.77	756.2	29.90	759.4	74.1	23.4	55	sse.			2		2	e.		0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.04	737.6	29.81	757.2	62.6	17.0	63	s.			2		kn		sw.	0.161	4.1		M. Hasse, Director
Nantes, Observatory	29.61	752.2	29.78	756.3	60.4	15.8	86	ssw.			2-3		10 n		sw.	0.059	1.5		M. Larocque, Director.
Perpignan, Observatory	29.79	756.7	29.90	759 4	71.6	22.0	50	se.	24.2	10.8			6	wnw.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.26	540.0			50.4	10.2		sw.			1		5		sw.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.88	733.5	29.90	759.5	73.4	23	53	n.			1		5			0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.07	636.7			48.6	9.2	66	sw.			2		8			0.319	8.1	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	29.80	756.8	29.83	757.7	65.8	18.8	100	ssw.			3		10		ssw.	1.024	26.0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.52	749.9	29.73	755.2	62.2	16.8	73	sw.			1		8	se.	se.	0.067	1.7	very cloudy	M. Mouillot, Director.
Rodez, Normal School	27.78	705.5	29.85	758.3	68.7	20.4	53	nw.			1	5 c	0	se.		0	0	fair	M. Seger, Director.
Rouen, Normal School	29.59	751.5	29.63	752.7	63.3	17.4	76	sw.			2		5	sw.		0.165	4.2	cloudy	M. Brotier.
Saint Maur, Observatory	29.57	751.0	29.73	755.2	64.6	18.1	61	sw.			2		10		sw.	0.157	4.0		M. Renou, Director.
Toulouse, Observatory	29.23	742.4	29.95	760.7	75.6	24.2	56	se.			1		5		nw.	0	0	cloudy	M. Baillaud, Director.
Tours	29.58	751.2	29.74	755.4	69.1	20.6	72	sw.			2		10		sw.	0.110	2.8	rainy	M. de Tastes.
Versailles, Observatory	29.24	742.6	29.73	755.1	63.3	17.4	65	sw.			3					0.079	2.0		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.44	747.8	29.73	755.2	64.0	17.8	62	ssw.			3		10		sw.	0.016	0.4		M. Marié Davy, Director
GERMAN.																			
Bamberg	28.97	735.8	29.82	757.4	64.0	17.8	60	w			4	0	8 n		w.	0.354	9.0	raining	Prof. Dr. Hoh.
Berlin	29.60	751.9	29.78	756.3	65.5	18.6	66	w.			2		8			0.244	6.2		Prof. Dr. Arndt.
Breslau	29.25	742.9	29.78	756.3	64.0	17.8	68	w.			2		10			0.031	0.8	raining	Royal University Obs'y.
Carlsruhe	29.39	746.5	29.82	757.3	66.2	19.0	59	sw.			7		10	sw.		0.020	0.5		Albert Senz.
Cassel	28.97	735.8	29.68	753.9	65.5	18.6	57	s.			6		9	sw.		0.047	1.2		Dr. H. Möhl.
Frankfort-on-the-Main	29.41	746.9	29.76	755 8	65.1	18.4	62	ssw.			2		9			0.079	2.0		Physical Society.
Friedrichshafen	28.45	722.5	29.84	757.8	66.7	19.3	61	sw.			2		7	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.51	749 5	29.60	751.9	63.7	17.6	71	sw.			5		7			0.134	3.4	raining	E. Preller.
Kiel	29.54	750.2	29.55	750.6	61.3	16.3	76	sw.			5		7			0.171	1.8		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.31	744.4	29.71	754.6	72.1	22.3	46	sw.			5		7	sw.		0.378	9.6	stormy	H. Leppig, Asst.
Magdeburg	29.48	748.8	29.66	753.4	68.2	20.1	56	wsw.			3	0	9 ks		sw.	0.382	9.7		Dr. Assmann.
Memel	29.60	751.9	29.65	753 1	61.9	16.6	73	e.			3		10						Issermann.
Munich	28.07	713.0	29.93	760.1	66.4	19.1	52	sw.			3		7	sw.		0.591	15.0		Dr. C. Lang.
Neufahrwasser	29.55	750.5	29.56	750.9	73.0	22.8	54	w.			3		10			0.091	2.3		A. Lothes.
Neustadt, Palatinate	29.28	743.6	29.80	756.9	64.9	18.3	54	w.			4		9	w.		0.098	2.5		Dickmether.
Stuttgart	28.89	733.7	29.75	755.6	77.9	25.5	42	w			1		5	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.59	751.5	29.61	752.0	64.0	17.8	73	sw.			4	0	8 s			0.551	14.0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.57	751.0			81.1	27.3		s.			4.0		6 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29 41	747.1	29.46	748.4	88.9	31.6	84	wsw.	22.0	9.8			7			0	0	d. clouds	
Deesa	28.90	734.0	29.36	745.9	82.6	28.1	83	se.	6.5	2.9			10	se.		0.05	1.3	overcast	
Bombay	29.50	749.3	29.54	750.3	79.6	26.4	91	wsw.	30.0	13.4			10		sw.	0.67	17.0	overcast	
Poona, Yarrowda	27.72	704.0	29.57	751.0	74.6	23.7	87	sw.	19.0	8.5			10		w.	0.15	3.8	drizzling	
Trichinopoly	29.51	749.6	29.79	756.8	77.4	25.2	81	wnw.	7.0	3.1			10			0.04	1.0	overcast	
Bellary	28.21	716.6	29.69	754.1	74.4	23.6	88	nw.	12.1	5.4			10	sw.		0.21	5.3	overcast	
Belgaum	27.14	689.2	29.69	754.1	69.6	20.9	95	sw.	10.0	4.5			10			2.63	66.8	showery	
Lahore	28.77	730.6	29.48	748.8	94.1	34.5	48	e.	4.8	2.2			2			0	0	d. clouds	
Roorkee	28.64	727.6	29.53	750.1	80.6	27	84	e.	1.4	0.6			7			1.66	42.2		
Agra	28.93	734.8	29.48	748.8	86.0	30.0	84	e.	2.2	1.0			9		e.	0.06	1.5	d. clouds	
Nagpur	28.44	722.3	29.45	748.0	90.1	32.3	51	ssw.	6.1	2.7			9	w.		0	0	d. clouds	
Jubbulpore	28.18	715.7	29.50	749.3	87.4	30.8	58	ssw.	3.4	1.5			6			0.02	0.5	d. clouds	
Lucknow	29.13	739.8	29.50	749.2	86.1	30.1	78	ese.	4.5	2.0			10			0	0	overcast	
Allahabad	29.16	740.6	29.46	748.3	89.5	31.9	73	e.	3.1	1.4			1			0.34	8.6	blue sky	
Patna	29.38	746.1	29.56	750.7	90.6	32.6	65	e.	7.8	3.5			5	e.	e.	0.10	2.5	d. clouds	
Hazaribagh	27.56	699.9	29.52	749.8	84.8	29.3	63	ese.	10.5	4.7			4			0.02	0.5	raining	
Cuttack	29.39	746.4	29.47	748.5	83.0	28.3	81	e.	4.6	2.1			5			0.50	12.7	d. clouds	
Calcutta, Alipore	29.53	749.9	29.55	750.5	86.5	30.3	67	se.	13.0	5.8			4		se.	0.27	6.9	d. clouds	
Dhubri	29.52	749.8	29.64	752.8	83.1	28.4	86	calm	3.1	1.4			10		sw.	1.11	28.2	overcast	
Chittagong	29.56	750.7	29.64	752.9	84.7	29.3	76	se.	5.4	2.4			5			0	0	d. clouds	
Sibsagar	29.31	744.5	29.64	752.9	86.0	30.0	78	ne.	2.1	0.9			10	w.	w.	0.12	3.0	d. clouds	
Jeypore	28.05	712.4	29.45	747.9	89.7	32.1	64	ese.	6.6	3.0			7		ese.	0	0	d. clouds	
Zanzibar, Africa	30.10	764.5			77.4	25.2	79	s.	5.4	2.4			8		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.48	748.9	29.88	759.0	75.4	24.1	64	w.	6.9	3.1			6			0.016	0.4		Prof. Giovanni Clodig.
Milan	29.36	745.8	29.86	758.4	75.2	24.0	60	ssw.	4.9	2.2			8	wsw.		0.299	7.6		Prof. Schiaparelli.
Padua	29.74	755.5	29.85	758.2	80.1	26.7	41	wsw.	8.7	3 9			4	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.97	735.7	29.84	757.8	72.5	22.5	60	s.	1.8	0.8			7	ne.		0	0		Prof. P. F. Denza.
Genoa	29.72	754.8	29.90	759.5	73.0	22.8	67	se.	12.5	5.6			10	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.96	710 1	29.80	757.0	73.6	23.1	58	w.			4		4	sw.		0.075	1.9		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.82	757.5	29.87	758.7	83.5	28.6	38	sw.	6.3	2.8			5	w.		0	0		Prof. Luigi Guidi.
Florence	29.67	753.6	29.91	759.8	81.9	27.7	46	w.			2		8	sw.		0	0		Prof. Costantino Pitter.
Leghorn	29.81	757.1	29.89	759.2	77.0	25.0	58	w.	0.7	0.3			10			0	0		Prof. P. Monte.
Rome	29.82	757.4	29.99	761.7	81.0	27.2	43	wnw.	11.9	5.3			5			0	0		Prof. P. S. Ferrari.
Lecce	29.75	755.6	29.99	761.7	83.3	28.5	22	s.	5.6	2.5			1			0	0		Prof. C. de Giorgi.
Cosenza	29.12	739.6	29.97	761.1	83.5	28.6	72	wsw.	4.3	1.9			0			0	0		Prof. D. Conti.
Cagliari	29.74	755.3	29.93	760.1	79.3	26.3	63	se.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.79	756.7	30.03	762.7	78.8	26.0	37	ne.	8.1	3.6			5			0	0		Prof. G. Ciacciatore.
Syracuse	29.95	760.8	30.00	761.9	79.9	26.6	62	ssw.	7.4	3.3			6	w.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.49	749.1	29.97	761.3	75.7	24.3	68	w.	5.6	2.5			5	wnw.		0	0		Prof. T. Brioschi.
Stelvio	22.16	562.9			48.0	8.9	47	w.			4		3			0.339	8.6	misty	Prof. P. F. Denza.
Valdobbia	22.20	563.8			51.1	10.6	71	ne.			2		7			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	30.13	765.3	30.14	765.5	62.8	17.1	82	ese.	21.0	9.4			10		e.	0	0	covered	
Hiroshima, I. M. Obs'y					74.8	23.8	80	wsw.	0.0	0.3			10s;ck			0	0	covered.	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.75	755.6	29.92	759.9	75.0	23.9	70	ene.	3.2	1.4			9 s			inap.	inap.	cloudy	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.61	752.0	29.80	756.9	71.3	21.8	97	se.	9.3	4.2			10 n			0.690?	14.5?	raining	S. Takehayashi.
Nemuro	30.19	766.8	30.25	768.3	58.0	14.4	93	sw.	3.0	1.3		0	0			0	0	clear	
Niigata	29.93	760.2	29.96	761.0	71.4	21.9	97	se.	0.9	0.4			10ck;s			0.055	1.4	cloudy	M. Morita.
Nobiru	30.06	763.6	30.08	764.0	63.6	17.6	95	se.	14.5	6.5			10 n			1.820	46.2	rainy	H. Midzushina.
Osaka	29.90	759.4	29.92	759.9	75.4	24.1	79	sse.					9 ck;s			0.145	3.7	cloudy	
Sapporo					61.0	16.1	85	se.	11.4	5.1			0			0	0	clear	
Tokei Obs'y, Yeddo	29.94	760.5	30.02	762.5	71.5	21.9	79	sse.	10.2	4.6		0	3 s			0.005	0.1	clear.	The Staff.
Wakayama	29.84	757.9	29.89	759.2	74.3	23.5	86	ne.	0.5	0.2		0	3			0.052	1.3	fair	Y. Kuwamura.
MAURITIUS																			
Mauritius Observatory	29.99	761.7	30.18	766.6	73.0	22.8	62	ene.	10.5	4.7		1 cs	1 k			0.16	4.1	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.76	603.4	29.98	761.4	58.5	14.7	82	ne.				5 c;ck	0	e.		0	0	fair	Prof. Vicente Fernandez.
Leon	24.38	619.2	30.01	762.2	61.9	16.6	84	nw.			1	8 c	0	n.		0.028	0.5	cloudy	Prof. M. Leal.
Mazatlan	29.73	755.2	29.99	761.7	80.5	26.9	91	wsw.	0.9	0.4		4 cs	5 n		sw.	0.079	2.0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	587.9	30.15	765.8	58.1	14.5	87	calm	0	0		6 ck	3 ks		e.	0.008	0.2	covered	The Staff.
Morelia	24.26	616.1	30.33	770.3	59.9	15.5	50	ne.			3	2	3	s.	s.	0	0	½ cloudy	M. Tena, M. D.
Orizaba	26.10	662.8	30.06	763.4	62.2	16.8	83	calm	0	0		2	1		n.	0	0	clear	Prof. M. M. Cházaro.
Pabellon, Aguascallentes	24.04	610.5	30.03	762.8	61.7	16.5	78	w.			1	5 c	0	ne.		0	0	½ cloudy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.48	596.0	30.23	767.8	54.0	12.2	89	calm	0	0		0	0			0.709	18.0	fine	Prof. P. Spina.
San Luis Potosi	24.30	617.4	30.17?	767.8?	68.6	20.3	62	e.				1	2	w.	e.	0	0	foggy	G. Barroeta, M. D.
Zacatecas	22.66	575.7	30.29	769.3	57.2	14.0	70	e.	1.5	0.6		2 ck	1 k			0	0	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.60	751.7	29.60	751.7	66.4	19.1		sw.			5					0	0		
Groningen	29.50	749.3	29.56	750.7	64.4	18.0		wsw.			5					0.264	6.7		
Helder	29.54	750.3	29.54	750.3	62.2	16.8		ssw.			5					0.445	11.3		
Hellevoetsluis	29.59	751.5	29.59	751.5	62.4	16.9	81	sw.			3					0.390	9.9		
Utrecht	29.55	750.6	29.60	751.8	64.2	17.9	74	ssw.			4		8			0.177	4.5	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.28	743.6	29.34	745.2	66.2	19.0	69	ssw.	7	3			6			0.972	24.7	raining	
Brono	29.50	749.3	29.54	750.2	68.4	20.2	39	se.	22	10			3			0	0		
Christiania	29.30	744.1	29.44	747.7	57.7	14.3	86	e.	27	12			10			0.445	11.3	raining	
Gjesvær	29.87	758.8	29.90	759.4	54.9	12.7		e.			6		0						
Lodingen	29.65	753.1	29.70	754.3	64.4	18.0	47	ese.			4		0			0	0		
PORTUGUESE.																			
Angra, Azores					72.3	22.4	82	w.	17.4	7.8			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.93	737.4	30.00	762.0	74.8	23.8	33	sw.	9.4	4.2			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.10	764.4	30.18	766.6	71.8	22.1	75	wsw.	2.5	1.1			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.70	754.4	30.06	763.4	66.7	19.3	56	sw.	18.1	8.1			0			0	0		The Staff.
Ponta Delgada, Azores	30.19	766.9	30.26	768.7	75.9	24.4	48	nne.	9.8	4.4			5			0	0		
Saint Paul de Loando	29.85	758.2	30.06	763.4	68.0	20.0	86	n.	0.7	0.3			10			0	0		
Serra da Estrella	25.28	642.2	29.87	758.8	61.7	16.5	33	w.	6.9	3.1			1			0	0		
RUSSIAN.																			
Akmolinski	28.60	726.4	29.61	752.2	76.6	24.8	34	wsw.	2	1		0*	8 ks			0.020	0.5		Major K. Lasarew.
Archangel	29.63	752.7	29.65	753.2	53.4	11.9	68	ne.	9	4			9 k			0	0		Capt. Sselliwerstow.
Astrakhan	29.70	754.4	29.62	752.3	84.4	29.1	50	wsw.	16	7		0	5 k			0	0		Capt. Wisganow.
Barnaul	29.28	743.8	29.76	755.8	72.9	22.7	42	nw.	4	2			9			0	0		Meteorological Obs'y.
Dorpat	29.47	748.4	29.70	754.4	62.2	16.8	62	nne.	7	3			10 kn			0	0		Observatory.
Ekaterinburg	28.60	726.5	29.52	749.8	69.4	20.8	59	se.	9	4		c	9 k;n			0.083	2.1		Meteorological Obs'y.
Irkutsk	28.34	719.7	29.93	760.3	63.9	17.7	86	calm	0	0			9 s			0	0		
Kasan	28.95	735.3	29.20	741.7	68.5	20.3	70	wsw.	7	3			10			0.256	6.5		Observatory.
Kertch	29.73	755.1	29.75	755.6	79.2	26.2	38	wnw.	9	4		0	2 k			0	0		Lagorio & Sastyrea.
Kieff	29.02	737.2	29.62	752.4	76.8	24.9	47	wsw.	11	5			ck	3 ks		0.012	0.3		Observatory.
Lugan	29.45	747.9	29.64	752.9	77.2	25.1	44	wnw.	18	8				4		0	0		Meteorological Obs'y.
Moscow	28.88	733.6	29.34	745.1	61.7	16.5	55	n.	13	6				6 ks					Meteorological Obs'y.
Nikolaiev	29.73	755.1	29.80	756.9	84.7	29.3	47	wsw.	9	4		0	4 k			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.44	747.8	29.58	751.4	88.5	31.4	26	sw.	4	2		0	8 n			0	0		Physical Observatory
St. Petersburg	29.66	753.3	29.67	753.7	58.1	14.5	55	nne.	9	4		0	3 k;ks			0	0		Central Physical Obs'y.
Semipalatinsk	29.12	739.6	29.73	755.2	80.2	26.8	26	calm	0	0			5			0	0		Major Lasarew.
Tashkend, Laboratory	28.14	714.8	29.59	751.5	90.5	32.5	39	calm	0	0			0			c	0		Teich, A. M.
Tiflis	28.22	716.9	29.56	750.9	76.5	24.7	59	nw.	45	20		0	7 n			0.008	0.2		Physical Observatory
Vladivostock	29.93	760.1			59.5	15.3	81	se.	4	2		0	0						
Warsaw	29.21	741.9	29.61	752.0	77.4	25.2	45	nw.	18	8			cs	9 ks					Astronomical Obs'y
Wilna	29.27	743.4	29.67	753.6	67.5	19.7	54	se.	2	1			9			0	0	heavy clouds	Berg, Assistant.
Yeniseisk	29.51	749.5	29.79	756.6	62.1	16.7	94	w.	7	3			6			0.130	3.3	thnd'r storm	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.76	755.9	29.86	758.4	77.0	25	68	se.	4.0	1.8		3 c	0						Antonio Rave, Director.
Bilbao, Met. Obs'y	29.81	757.1	29.87	758.6	75.7	24.3	52	nw.	2.5	1.1		2	0	nw.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.96	684.8	29.79	756.6	74.8	23.8	27	sw	10.5	4.7			1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.73	704.3	29.85	758.1	80.2	26.8	21	sw.	22.4	10.0		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director.
Santiago, Met. Obs'y	28.98	736.2	29.87	758.8	60.3	15.7	75	sw.	10.5	4.7			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I																			Benito Vines, S. J.
Manilla, Philippine Islands	29.88	758.9	29.93	760.3	83.8	28.8	82	e.	3.3	1.5		0	2 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.96	761.0	30.06	763.5	73.9	23.3	57	w.	6.6	3.0		0	1		s.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.05	763.2	30.14	765.5	82.4	28.0	77	se.	2.2	1.0		3 cs	0	se.		0.559	14.2	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.80	756.9	29.93	760.2	83.5	28.6	79	n.	8.3	3.7		0	1 k			0.01	0.3	clear	José L. Yrastorza.
SWEDISH																			
Haparanda	29.78	756.5	29.82	757.5	54.7	12.6	68	ne.			4		10			0	0		
Umea	29.76	756.0	29.82	757.3	62.2	16.8	55	se.			4		5			0	0		
Hernosand	29.74	755.4	29.79	756.7	57.9	14.4	53	ene.			2		0			0	0		
Stockholm	29.50	749.4	29.68	753.9	59.9	15.5	50	ese.			6		9			0.008	0.2		
Wisby	29.58	751.2	29.63	752.7	59.0	15.0	72	ese.			6		10			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Sub-series.																			
Upsala	29.57	751.0	29.65	753.2	63.7	17.6	54	e.	8.9	4.0			10			0.079	2.0		S. G. Fineman.
SWISS.																			
Geneva	28.46	722.9	29.84	758.0	69.6	20.9	51	sw.			3					0	0	covered	The Observatory
SCOTTISH.																			
Monach Lt			29.14	740.1	61	16.1	94	s.			4	3	0	s.		0	0	d. clouds	J. Youngclause.
North Unst			29.23	742.4				se.			4		fg.					foggy	
TURKISH.																			
Constantinople			29.96	761.0	76.1	24.5	48	ne.	8	3.5			3		ne.	0	0		The Observatory.
Valona			30.12	765.1	79.2	26.2		nw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.76	756.0	86.9	30.5	65	sw.			3	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.79	756.7	29.87	758.7	63.5	17.5	77	sw.	4	1.8			10 s		nw.	0.54	13.7	cloudy	J. O. Barnes.
Alpena, Michigan	29.36	745.7	30.00	762.0	59	15.0	70	nw.	6	2.7		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.08	637.0	29.82	757.4	62	16.7	90	e.	3	1.3			10 s		calm	0.22	5.6	cloudy	W. O. Barnes.
Assinaboine, Ft., Montana	27.06	687.3	29.79	756.7	60	15.6	72	sw.	17	7.6		0	0			0.60	15.2	clear	B. O. Lenoir.
Atlanta, Georgia	28.94	735.1	30.09	764.3	62.0	16.7	67	n.	6	2.7		0	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	29.96	761.0	29.97	761.2	61.3	16.3	84	w.	6	2.7		2 c	0	calm		inap.	inap.	clear	Jas. M. Watson.
Augusta, Georgia	29.92	760.0	30.11	764.8	67.0	19.4	63	n.	3	1.3		1 ck	0	w.		0	0	clear	John Healy.
Baltimore, Maryland	29.97	761.2	30.02	762.5	65	18.3	73	nw.	6	2.7		0	0			0.03	0.8	clear	Robert Seybothe.
Barnegat, New Jersey	29.94	760.5	29.96	761.0	67.3	19.6	69	nw.	9	4.0		0	0			0.05	1.3	clear	G. A. Hill.
Bennett, Fort, Dakota	28.04	712.2	29.58	751.3	69	20.6	97	nw.	9	4.0		0	0			0.53	13.5	clear	A. Pritchard.
Benton, Fort, Montana								w.	15	6.7						0.06	1.5		G. W. Davis.
Behring Island, Behring Sea	29.96	761.0	29.98	761.5	45.0	7.2		se.	4	1.8			10s;ks			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	27.87	707.9	29.59	751.6	67	19.4	90	e.	5	2.2			10 s		e.	0.61	15.5	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.88	758.9	29.91	759.7	60.1	15.6	93	w.	2	0.9			10s;fg		w.	0.69	17.5	cloudy	J. T. Elker.
Boise City, Idaho	27.23	691.6	29.95	760.7	64	17.8	54	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.70	754.4	29.85	758.2	56.0	13.3	96	w.	6	2.7			10s;fg		w.	0.60	15.2	cloudy	O. B. Cole.
Brownsville, Texas	29.90	759.4	29.94	760.5	77.1	25.1	90	s.	1	0.4		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.24	742.7	29.97	761.2	58.6	14.8	85	sw.	4	1.8		0	1 ks		sw.	0.06	1.5	clear	Wm. Finn.
Buford, Fort, Dakota	27.79	705.9	29.73	755.1	57	13.9	100	ne.	23	10.3			10 n		ne.	1.01	25.7	light rain	A. H. Bell.
Burlington, Vermont	29.51	749.5	29.79	756.7	59.5	15.3	92	s.	7	3.1			10 s		s.	0.46	11.7	cloudy	G. O. Schaeffer.
Cairo, Illinois	29.76	755.9	30.15	765.8	67.6	19.8	70	ne.	1	0.4		0	0			0	0	clear	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.17	690.1	29.76	755.9	79	26.1	56	n.			1	2 cs	3 ks	w.	w.	0	0	fair	J. T. Fitzgerald.
Cape Henry, Virginia	30.00	762.0	30.02	762.5	69	20.6	70	nw.	18	8.0		2 c	3 k	sw.	nw.	0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.96	761.0	29.99	761.7	64.0	17.8	90	nw.	11	4.9		5 k	0	nw.		0.02	0.5	fair	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	29.97	761.2	29.99	761.7	74	23.3	69	n.	10	4.5		6 c	0	w.		inap.	inap.	fair	F. W. Mixer.
Champaign, Illinois	29.28	743.7	30.07	763.8	61.5	16.4	69	s.	5	2.2		4 c	0	ne.		0	0	fair	L. A. Welsh.
Charleston, S. Carolina	29.98	761.5	30.04	763.0	72	22.2	57	n.	9	4.0		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.21	741.9	30.04	763.0	68.0	20.0	47	n.	4	1.8		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.31	744.5	30.11	764.8	61.5	16.4	80	n.	1	0.4		0	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.08	611.6	29.77	756.1	58.1	14.5	78	n.	12	5.4		0	0			0.23	5.8	clear	E. McGovern.
Chicago, Illinois	29.36	745.7	30.05	763.3	62.1	16.7	68	w.	4	1.8		7 c	hz.	nw.		0	0	fair	J. Mitchell.
Chincoteague, Virginia	29.98	761.5	30.00	762.0	65	18.3	84	nw.	1	0.4		3 c	0			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.45	748.0	30.09	764.3	61	16.1	84	w.	1	0.4		0	0			0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.33	745.0	30.05	763.3	64.9	18.3	67	nw.	9	4.0		0	0			0.02	0.5	clear	J. B. Newlin.
Coleman City, Texas	28.20	716.3	29.96	761.0	74	23.3	64	se.	3	1.3		6 c	0			0	0	fair	L. Dorman.
Columbus, Ohio	29.24	742.7	30.07	763.8	58	14.4	74	nw.	2	0.9		0	0			0.31	7.9	clear	D. Cuthbertson.
Concho, Texas	28.07	713.0	29.95	760.7	81	27.2	82	s.	4	1.8		8 c	0	se.		0	0	cloudy	W. W. McConihe.
Custer, Fort, Montana	26.80	680.7	29.82	757.4	62	16.7	63	sw.	8	3.6		0	0			0.10	2.5	clear	V. Verge.
Davenport, Iowa	29.40	746.7	30.02	762.5	63	17.2	73	s.	5	2.2		7 cs	0	w.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	29.84	757.9	71	21.7	76	sw.	3	1.3		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.30	718.8	30.02	762.5	54.0	12.2	64	sw.	4	1.8		0	0			0.38	9.7	clear	H. Clifford.
Deadwood, Dakota	25.30	642.6	29.72	754.9	62.0	16.7	70	se.	3	1.3		2 c	0	n.		0.35	8.9	clear	G. W. Scott.
Decatur, Texas					69	20.0	51	se.	14	6.3		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.98	761.5	30.00	762.0	63	17.2	84	nw.	9	4.0		2 c	1 k	sw.	nw.	0	0	clear	A. Schneider.
Denison, Texas	29.24	742.7	30.02	762.5	66.0	18.9	73	se.	6	2.7		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.72	627.9	29.73	755.1	66.5	19.2	71	s.	2	0.9		3 ck	0	w.		0	0	clear	F. M. Neal.
Des Moines, Iowa	29.10	739.1	29.98	761.5	63	17.2	78	sw.	8	3.6		10 cs	0	w.		0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.35	745.5	30.04	763.0	59.4	15.2	81	nw.	4	1.8		0	0			0.16	4.1	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.23	691.6	29.73	755.1	67.0	19.4	70	s.	16	7.2		8 cs	0	s.		0	0	cloudy	W. M. Mattingly.
Dubuque, Iowa	29.30	744.2	29.99	761.7	68.2	20.1	51	s.	6	2.7		3 ck	0	sw.		0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.09	738.9	29.81	757.2	54	12.2	80	ne.	4	1.8			10 s		ne.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.18	741.2	29.97	761.2	77.2	25.1	56	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.38	644.6	29.94	760.5	55	12.8	52	calm	0	0		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.80	756.9	29.86	758.4	50.5	10.3	96	e.	10	4.5			10m;fog		e.	0.20	5.1	light rain	D. C. Murphy.
Elliott, Fort, Texas	27.14	689.3	29.78	756.4	69	20.6	66	se.	12	5.4		8 c	0	se.		0	0	cloudy	W. J. Oundall.
El Paso, Texas	26.24	666.5	29.84	757.9	75	23.9	58	ne.	2	0.9		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.30	744.2	30.02	762.5	61	16.1	87	w.	2	0.9		2 k	3 k	w.	ne.	0.15	3.8	fair	Peter Wood.
Escanaba, Michigan	29.31	744.5	29.95	760.7	67	19.4	59	sw.	8	3.6		4 c	3 s	nw.		0	0	fair	C. Dill.
Fredericksburg, Texas	28.26	717.8	29.96	761.0	72	22.2	59	calm	0	0		0	0			0	0	clear	H. S. Miles.
Galveston, Texas	29.96	761.0	30.01	762.2	80	26.7	67	se.	12	5.4		0	3 ks			0	0	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.40	746.7	30.05	763.3	64.0	17.8	73	calm	0	0		0	0			0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.29	642.4	29.86	758.4	71.4	21.9	53	ne.	3	1.3		1 c	1 k			0.03	0.8	clear	Robert C. Lord.
Hatteras, North Carolina	29.99	761.7	30.01	762.2	71.0	21.7	82	ne.	5	2.2		3 c	hz.	w.		0	0	clear	R. M. Crawford.
Helena, Montana	25.84	656.3	29.90	759.4	60	15.6	62	w.	6	2.7		0	0			0.02	0.5	clear	S. Wheaton.
Henrietta, Texas	29.01	736.8	29.99	761.7	75.0	23.9	56	se.	8	3.6			10 s			0	0	cloudy	J. W. Byram.
Huron, Dakota	28.29	718.6	29.61	752.1	65.2	18.4	87	s.	17	7.6		0	3 ks			0.12	3.0	clear	S. W. Glenn.
Indianapolis, Indiana	29.32	744.7	30.09	764.3	64	17.8	73	calm	0	0		0	hz.			0	0	clear	O. Schutze
Indianola, Texas	29.98	761.5	30.01	762.2	79.1	26.2	91	calm	0	0		2 cs	1 k	se.	s.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.82	732.0	29.94	760.5	72	22.2	66	se.	8	3.6		6 cs	0			0	0	fair	J. P. Sherry.
Jacksonville, Florida	29.94	760.5	29.98	761.5	78	25.6	82	sw.	1	0.4		2 cs	2 k	sw.	sw.	0.03	0.8	fair	J. W. Smith.
Keogh, Fort, Montana	27.35	694.7	29.76	755.9	62	16.7	67	nw.	14	6.3		0	c			0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.38	746.2	30.01	762.2	64.0	17.8	73	s.	6	2.7		4 cs	0	w.		0	0	fair	F. Z. Gosewisch
Key West, Florida	30.04	763.0	30.06	763.5	86.0	30.0	61	sw.	1	0.4		0	2 k		sw.	0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.01	762.2	30.03	762.7	68.0	20.0	90	calm	0	0		8 c;k	0	w.		0.18	4.6	cloudy	E. A. Beals.
Knoxville, Tennessee	29.12	739.6	30.12	765.0	57.3	14.1	91	ne.	1	0.4		0	fg.			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.21	741.9	29.96	761.0	67	19.4	63	s.	13	5.8			10 s			0	0	cloudy	S. C. Emery
La Mesilla, New Mexico	26.11	663.2	29.85	758.2	70.0	21.1	55	calm	0	0			10 s			0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.11	739.4	29.97	761.2	66	18.9	68	s.	5	2.2			10 s		sw.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.20	741.7	30.00	762.0	60.0	15.6	62	e.	3	1.3		0	0			0.01	0.3	clear	W. Bell.
Little Rock, Arkansas	29.83	757.7	30.14	765.5	64	17.8	93	e.	1	0.4		6 c	0			0	0	fair	W. U. Simons.
Los Angeles, California	29.59	751.6	29.98	761.5	63.2	17.3	68	se.	1	0.4		0	2 s			0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.54	750.3	30.09	764.3	64	17.8	68	n.	1	0.4		0	sk.			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.38	746.2	30.04	763.0	64.0	17.8	63	nw.	4	1.8		0	0			0	0	clear	W. R. Bushby.
Macon, Fort, North Carolina	30.00	762.0	30.01	762.2	68	20.0	84	n.	13	5.8		1 k	0			0	0	clear	F. P. Chaffee.
Madison, Wisconsin	29.03	737.3	30.01	762.2	60	15.6	81	sw.	5	2.2		5 c	0	nw.		0	0	fair	C. A. Shaw.
Maginnis, Fort, Montana																			H. W. Dodge.
McKavett, Fort, Texas	27.78	705.6	29.98	761.5	72	22.2	76	sw.	8	3.6		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.21	741.9	29.92	760.0	64	17.8	63	sw.	12	5.4			10 s		sw.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.79	756.7	30.12	765.0	68	20.0	66	e.	4	1.8		3 c	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.30	744.2	30.03	762.7	62	16.7	68	sw.	10	4.5		5 ck	0			0	0	fair	W. Line.

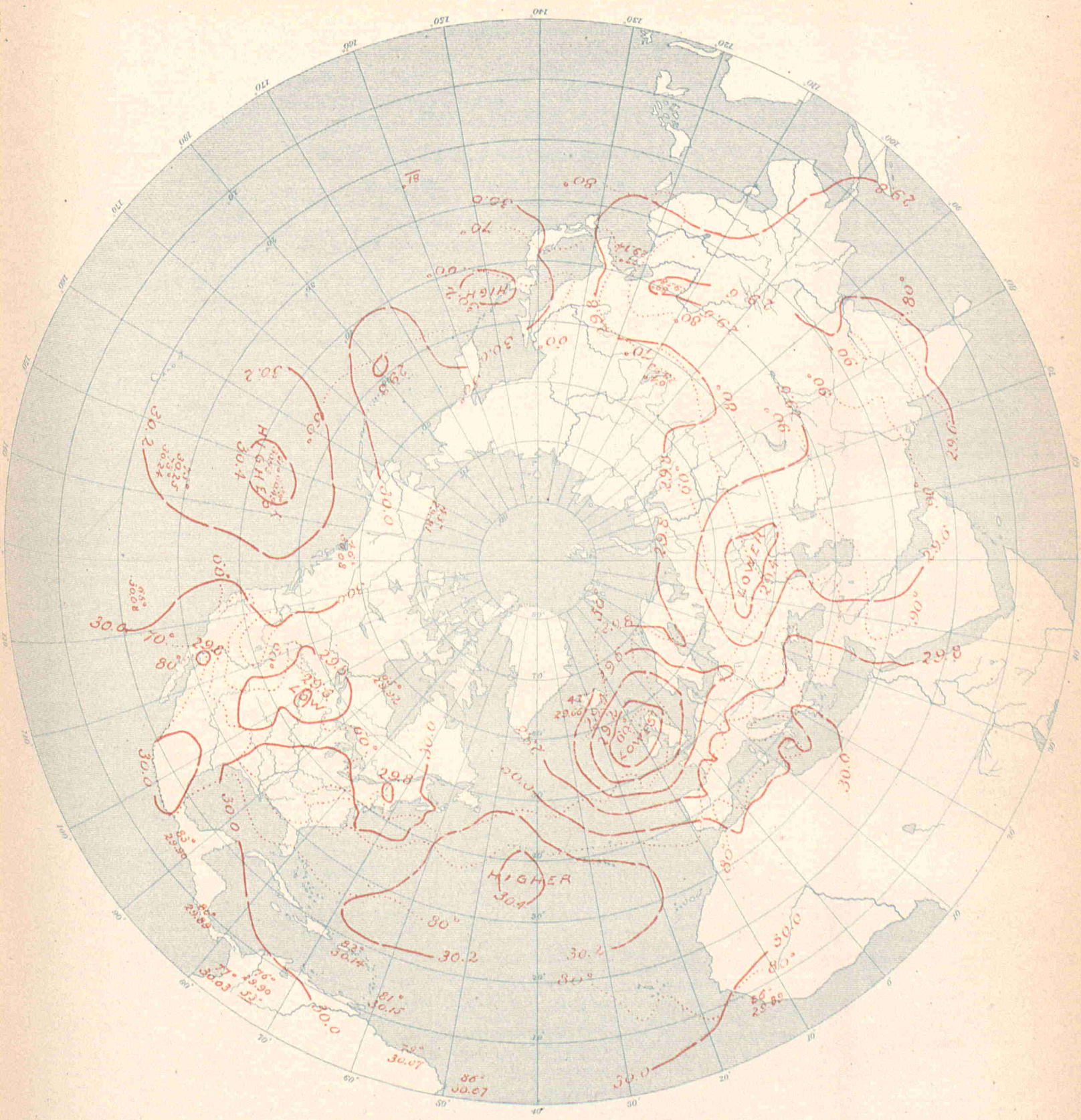
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.85	682.0	30.04	763.0	56	13.3	80	n.	1	0.4		0	0			0.12	3.0	clear	J. H. Jones.
Mobile, Alabama	30.04	763.0	30.08	764.0	66.5	19.2	84	n.	5	2.2		0	0			0	0	clear	C. A. Read.
Montgomery, Alabama	29.86	758.4	30.08	764.0	65.4	18.6	69	n.	3	1.3		1 cs	0			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.70	729.0	29.66	753.4	64	17.8	93	s.	12	5.4			10 s			0.67	17.0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.08	738.6	30.08	764.0	61.5	16.4	86	w.	3	1.3			10 s		w.	0.10	2.5	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.71	602.2	29.78	756.4	45.0	7.2	93	nw.	10	4.5			fg.		nw.	1.51	38.4	dense fog	J. G. Linsley.
Nashville, Tennessee	29.60	751.8	30.12	765.0	61.0	16.1	84	nw.	1	0.4		0	fg.			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.78	756.4	29.90	759.4	62	16.7	84	w.	3	1.3		0	9 k		w.	0.39	9.9	cloudy	J. H. Sherman.
New London, Connecticut	29.86	758.4	29.91	759.7	62	16.7	87	calm	0	0		6 k	4 s	sw.	sw.	0.29	7.4	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.04	763.0	75.0	23.9	56	ne.	8	3.6		0	0			0	0	clear	L. Dunne.
Newport, Rhode Island	29.85	758.2	29.90	759.4	60.2	15.7	83	w.	6	2.7		3 ck	5 ks	nw.	sw.	0.35	8.9	cloudy	W. McGillivray.
New York, New York	29.77	756.1	29.94	760.5	59.5	15.3	86	w.	4	1.8		0	0			0.05	1.3	clear	J. B. Merrill.
Norfolk, Virginia	30.01	762.2	30.04	763.0	70	21.1	70	n.	5	2.2		0	0			0	0	clear	H. L. Kemp.
North Platte, Nebraska	27.05	687.1	29.85	758.2	65.6	18.7	78	s.	8	3.6		0	4 s			0.01	0.3	fair	E. F. Brady.
Olympia, Washington T'y	30.12	765.0	30.16	766.1	45.0	7.2	83	calm	0	0		0	0			0	0	clear	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.79	756.7	29.81	757.2	43.2	6.2	95	sw.	18	8.0		5c;cs	2 s	w.		0	0	fair	P. H. Ray.
Omaha, Nebraska	28.76	730.5	29.89	759.2	66.8	19.3	73	s.	12	5.4			10 n		s.	inap.	inap.	light rain	A. Pollak.
Oswego, New York	29.58	751.3	29.90	759.4	59.0	15.0	87	nw.	7	3.1			10 s		nw.	0.37	9.4	cloudy	S. W. Beall.
Palestine, Texas	29.52	749.8	30.06	763.5	66.0	18.9	73	e	8	3.6		7 cs	0	s.		0	0	fair	L. M. Pindell.
Pensacola, Florida	30.02	762.5	30.05	763.3	69.8	21.0	68	nw.	5	2.2		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa.	29.90	759.4	30.00	762.0	62	16.7	72	nw.	10	4.5		0	0			0.14	3.6	clear	T. F. Townsend.
Pike's Peak, Colorado	17.98	456.7	29.76	755.9	36	2.2	85	ne.	13	5.8		0	1 ks		ne.	0.12	3.0	clear	L. M. Dey.
Pioche, Nevada	24.15	613.4	29.88	758.9	57.2	14.0	90	nw.	1	0.4		1 k	0	calm		0.09	2.3	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.25	742.9	30.04	763.0	57.5	14.2	84	w.	2	0.9		4 c	4 s	nw.	w.	0.11	2.8	cloudy	J. H. Bryce.
Poplar River, Montana	27.70	703.6						ne.			4		10 s			0.25	6.3	cloudy	W. D. Maxwell.
Port Eads, Louisiana	30.04	763.0	30.05	763.3	76.1	24.5	71	ne.	14	6.3		0	0			0	0	clear	M. Hermann.
Port Huron, Michigan	29.35	745.5	30.01	762.2	61.0	16.1	78	w.	4	1.8		0	0			0	0	clear	W. O. Bailey.
Portland, Maine	29.77	756.1	29.82	757.4	57	13.9	93	ne.	2	0.9			10n;fg			0.94	23.9	light rain	W. W. Eichelberger.
Portland, Oregon	30.09	764.3	30.16	766.1	52.0	11.1	80	n.	1	0.4		0	0			0	0	clear	M. L. Hearne.
Prescott, Arizona	24.87	631.7	29.86	758.4	65	18.3	65	s.	2	0.9		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.84	757.9	29.86	758.4	58.0	14.4	93	w.	8	3.6			10 s			0.45	11.4	cloudy	P. T. Jenkins.
Punta Rassa, Florida	29.97	761.2	29.98	761.5	82	27.8	72	sw.	15	6.7		8 ck	2 ks	calm	sw.	0.20	5.1	cloudy	W. J. Evans.
Red Bluff, California	29.48	748.8	29.84	757.9	76.2	24.6	49	calm	0	0		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.74	755.4	29.97	761.2	80	26.7	74	e.	3	1.3		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	29.28	743.7	29.93	760.2	56	13.3	93	w.	6	2.7		10 k	fg.			0.14	3.6	cloudy	E. W. McGann.
Roseburg, Oregon	29.56	750.8	30.10	764.5	52	11.1	86	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.78	756.4	29.85	758.2	66.0	18.9	63	calm	0	0		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.53	750.0	30.11	764.8	66.0	18.9	81	se.	6	2.7		6 c	0	nw.		0	0	fair	J. H. Webber.
St. Paul, Minnesota	28.97	735.8	29.81	757.2	65	18.3	73	se.	15	6.7			10 s		s.	0	0	cloudy	P. F. Lyons
St. Vincent, Minnesota	28.83	732.3	29.67	753.6	58	14.4	87	n.	4	1.8		5ck;cs	4 s			0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.67	652.0	29.85	758.2	69	20.6	49	calm	0	0		1 k	0			0	0	clear	J. Craig.
San Antonio, Texas	29.29	744.0	29.97	761.2	74.5	23.6	90	ne.	2	0.9			10 s			0	0	cloudy	T. J. Kenan.
San Diego, California	29.85	758.2	29.92	760.0	65.2	18.4	87	sw.	2	0.9			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.39	746.5	30.05	763.3	61.2	16.2	84	w.	8	3.6		0	0			0.13	3.3	clear	M. H. Perry.
Sandy Hook, New Jersey	29.91	759.7	29.94	760.5	61.0	16.1	84	nw.	13	5.8		0	0			0.14	3.6	clear	B. A. Blundon.
San Francisco, California	29.83	757.7	29.90	759.4	55	12.8	86	w.	11	4.9		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.31	592.1	29.81	757.2	61	16.1	54	ne.	6	2.7		5 c	0	w.		inap.	inap.	fair	H. U. Jones.
Savannah, Georgia	29.95	760.7	30.04	763.0	74	23.3	58	n.	5	2.2		1 c	0			inap.	inap.	clear	H. W. Ford.
Shaw, Fort, Montana	26.35	669.3	29.86	758.4	61	16.1	62	sw.	17	7.6		0	0			0.58	14.7	clear	A. L. Mathews.
Shreveport, Louisiana	29.85	758.2	30.08	764.0	65	18.3	70	ne.	2	0.9		7 c	0	ne.		0	0	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.75	730.2	29.95	760.7	69	20.6	66	se.	13	5.8			10 s		w.	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.39	619.5	29.85	758.2	65	18.3	52	n.	5	2.2		0	3 k		calm	0	0	clear	J. B. Wallace.
Sitka, Alaska	30.02	762.5	30.08	764.0	45.6	7.6	83	ne.	7	3.1		5 k	3 s			1.39	35.3	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.60	751.8	30.06	763.5	64.0	17.8	84	e.	2	0.9		9 cs	0	ne.		0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.00	762.0	30.02	762.5	69	20.6	51	n.	8	3.6		2 cs	0	w.		inap.	inap.	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.97	710.4	29.95	760.7	58	14.4	64	w.	11	4.9		0	0			0.83	21.1	clear	D. Moore.
Springfield, Illinois	29.43	747.5	30.09	764.3	63	17.2	67	se.	2	0.9		5 c	0	nw.		0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.75	755.6	29.88	758.9	62.2	16.8	87	s.	3	1.3			10 s		sw.	0.13	3.3	cloudy	T. S. Outram.
Springfield, Mo.	28.65	727.7	30.04	763.0	60.5	15.8	77	se.	7	3.1			10 s			0	0	cloudy	J. B. Marbury.
Starkville, Miss.	29.64	752.8	30.11	764.8	63.5	17.5	84	n.	4	1.8		7 c	0			0	0	fair	M. J. Wright, jr.
Stevenson, Fort, Dakota	27.86	707.6	29.64	752.8	64	17.8	100	ne.	3	1.3			10 s			0.17	4.3	cloudy	W. Burrows.
Stockton, Fort, Texas	26.97	685.0	29.91	759.7	73.0	22.8	51	s.	16	7.2		0	6 s		s.	0	0	fair	J. O'Dowd.
Thatcher's Island, Mass.	29.81	757.2	29.86	758.4	58.5	14.7	87	w.	4	1.8			10s;fg		w.	0.85	21.6	cloudy	G. Liebmann.
Toledo, Ohio	29.36	745.7	30.03	762.7	62	16.7	78	w.	3	1.3		0	0			0.11	2.8	clear	A. Buell.
Tucson, Arizona	27.52	699.0	29.84	757.9	79	26.1	74	calm	0	0		2 c	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.70	754.4	30.06	763.5	61	16.1	58	w.	8	3.6		0	0			0	0	clear	J. Daly.
Uvalde, Texas	29.01	736.8	29.95	760.7	72	22.2	66	e	4	1.8		0	0			0	0	clear	E. C. Imlay.
Verde, Fort, Arizona					77	25.0	66	se.			1	2 cs	2 s	w.	s.	0	0	fair	D. Brooks.
Vicksburg, Mississippi	29.84	757.9	30.08	764.0	66	18.9	63	calm	0	0		7 c	0			0	0	fair	H. P. Brisbane.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.51	622.5	29.84	757.9	50.4	10.2	92	w.	4	1.8		0	0			0.04	1.0	clear	T. M. Ambler.
Washington, D. C.	29.92	760.0	30.03	762.7	63.0	17.2	79	nw.	8	3.6		0	0			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	25.98	659.9	29.74	755.4	67.9	19.9	84	nw.	4	1.8		7 c	3 s	nw.		0.15	3.8	cloudy	F. W. Brandenburg.
Williamsport, Pa.	29.38	746.2	29.96	761.0	57.5	14.2	82	w.	9	4.0			10 ks		w.	0.90	22.9	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.00	762.0	30.05	763.3	69	20.6	61	n.	7	3.1		1 cs	0	w.		0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.69	652.5	29.91	759.7	59	15.0	46	ne.	8	3.6		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.49	723.6	29.76	755.9	65	18.3	84	sw.	8	3.6			10 ks		s.	0.10	2.5	cloudy	J. H. Atfield.
Yuma, Arizona	29.64	752.8	29.78	756.4	82.0	27.8	70	calm	0	0		0	1 ks			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			53.0	11.7	60	se.	5	2.2		2 ck	2 ks		sw.	0.01	0.3	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.14	765.5	30.15	765.8	81	27.2	91	e.				5 k	5 ks	e.	e.	0	0	cloudy	J. A. Racker.
Buenaventura, U. S. C.	30.00	762.0	30.03	762.7	77	25.0	95	calm	0	0			10 n		calm	0.30	7.6	raining	J. I. Plume.
Kingston, Jamaica, W. I.	30.06	763.5	30.07	763.8	81.7	27.6	71	calm	0	0		0	1 ks			0	0		Robert Johnston.
Magua, San Domingo, W. I					73	22.8		calm			0	0	7 ck		e.	0	0		S. M. Pike.
Navassa														e.		0	0	clear	F. M. Everett.
Paramaribo, S. A.	29.95	760.7	30.03	762.7	81	27.2	72	ne.	9	4.0		2 ck	0	e.	e.	0.060	1.5	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	30.06	763.5	30.07	763.8	79	26.1	87	se.			2	4 c	5 k	e.		0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	29.40	746.7	29.96	761.0	76	24.4	84	calm			0	7 c	0	calm		0	0	fair	Earl Flint.
Santiago de Cuba, W. I.							94	ne.			3	0	2 ks		ne.	0	0	cloudy	Robert Mason.
York Factory, B. A.	30.05	763.3	30.08	764.0	81	27.2	74	calm	0	0		8 cs	0			0	0	cloudy	Fortesque & Wood.
	29.86	758.4	29.92	760.0	65.0	18.3	94	sw.	13	5.8			10 s		sw.	1.00	25.4	cloudy	

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, S. 27° 04′, E. 8° 03′	30.26	768.6	63.2	17.3	76	ssw.			1		7							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.85	758.2	80.5	26.9	82	nw.			3		0					1	nw.	blue sky.
H. M. S. Amethyst, Montevideo, Uruguay	30.12	765.0	48.2	9.0	87	wnw.			3		5	n.						d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.96	761.0	77	25.0		n.			3									blue sky.
H. M. S. Bacchante, N. 38° 56′, E. 5° 10′	29.98	761.5	80	26.7	78	w.			2		2	wnw.				2	nnw.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.10	764.5	63	17.2		nw.			3-4		10							misty.
H. M. S. Champion, N 22° 30′ E. 157° 40′			81	27.2	95	e.			4		2	ne.				3	e.	d. clouds.
H. M. S. Comus, N. 39° 44′, E. 144° 35′	30.13	765.3	64	17.8	78	e.			3		6	ne.				2	ne	d. clouds.
H. M. S. Diamond, S. 5° 41′, E. 152° 57′	29.97	761.2	80	26.7	91	nne.			1-2		10					2	nne.	raining.
H. M. S. Dido, N. 13′, 05° W. 59° 30′	30.17	766.3	79	26.1		e.			2		3	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.18	766.6	79	26.1	90	se.			3-4		3	ese.						d. clouds.
H. M. S. Dwarf, S. 33° 39′, W. 59° 29′	30.10	764.5	50.5	10.3	93	nne.			3		3					2	n.	d. clouds.
H. M. S. Eclipse, S. 13° 12′, E. 43° 00′	30.08	764.0	79	26.1		s.			3-4		1					2	ese.	blue sky.
H. M. S. Emerald, S. 20° 20′ W. 17° 20′	30.29	769.4	72	22.2	100	n.			1		3	n.				2	ene.	d. clouds.
H. M. S. Espiegle, S. 16° 18′ E. 167° 42′	30.05	763.3	74	23.3	72	se.			2		8					1	se.	d. clouds.
H. M. S. Fawn, S. 25° 59′, E. 32° 48′	30.29	769.4	69	20.6	72	e.			1		2							d. clouds.
H. M. S. Gannet, S. 13° 20′, W. 77° 05′	30.02	762.5	59	15.0	81	s.			4		10					3	sse.	overcast.
H. M. S. Garnet, S. 22° 00′, W. 19° 40′	30.29	769.4	72	22.2	80	nw.			3		7							misty.
H. M. S. Griffon, N. 50° 45′, W. 56° 06′	30.16	766.1	54	12.2	79	calm			0		4							d. clouds.
H. M. S. Iris, N. 31° 20′, E. 30° 10′	30.17?	766.3?	81	27.2	78	nw.			2-3		1	wnw.				1	wnw.	blue sky.
H. M. S. Iron Duke, N. 38° 05′, E. 141° 15′	30.07	763.8	63	17.2	94	e.			2-3		10					2	e.	raining.
H. M. S. Kingfisher, N. 34° 05′ W. 119° 20′	29.96	761.0	63	17.2		calm			0		5					3	nw.	misty.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.98	761.5	79.3	26.3	98	se.			2		3					1	se.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.98	761.5	49.5	9.7		ne.			1		10							foggy.
H. M. S. Magpie, N. 33° 30′, E. 135° 20′	29.89	759.2	74.7	23.7	81	ese.			2-3		10					4	se.	d. clouds.
H. M. S. Minotaur, Malta, Mediterranean	30.07	763.8	76.5	24.7	76	ne.			1		2							d. clouds.
H. M. S. Nelson, S. 36° 50′, E. 174° 49	29.59	751.6	53	11.7	73	sw.			2		4							squally.
H. M. S. Northampton, Halifax, Nova Scotia	29.95	760.7	54.5	12.5	96	sse.			1									raining.
H. M. S. Pegasus, N. 1° 27′, E. 103° 47′	29.88	758.9	82.5	28.1	87	calm			0		2							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Island	30.14	765.5	69	20.6	90	sse.			2		4	ese.						d. clouds.
H. M. S. Rocket, Vancouver Island, B. A.	30.13	765.3	52	11.1	86	wsw.			3		3							squally.
H. M. S. Sappho, S. 24° 00′, W. 137° 20′	30.14	765.5	68.5	20.3		e.			4-5		5	e.				5	e.	d. clouds.
H. M. S. Swiftsure, Rio de Janeiro, Brazil	30.41	772.4	71.5	21.9	85	wnw.			1		2							misty.
H. M. S. Sylvia, Montevideo, Uruguay	30.16	766.1	46.5	8.1	87	nnw.			4-5		8	w.						d. clouds.
H. M. S. Tamar, N. 36° 52′, E. 2° 53′	29.97	761.2	78.5	25.8	69	ese.			1		4							d. clouds.
H. M. S. Tenedos, N. 47° 35′ W. 59° 07′	30.06	763.5	55.5	13.1	87	e.			3-4		9							d. clouds.
H. M. S. Thetis, S. 8° 30′ W. 80° 42′	29.99	761.7	64	17.8	89	se.			3		10							overcast.
H. M. S. Triumph, Talcahuano, Chili	30.03	762.7	54	12.2	100	n.			5-6		10	calm				2	se.	rain & fog.
H. M. S. Woodlark, Off Bassorah, Asiatic, Turkey	29.43	747.5	99.5	37.5	37	nw.			3-4		0							blue sky.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verde Islands	30.16	766.0	79.9	26.6	87	nne.			2		9					2		overcast.
Swedish Naval.																		
Saga, N. 63° 12′, E. 2° 38′	29.31	744.4	58.6	14.8	91	ese.			2		9							overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.03	762.7	70	21.1	70	nne.	8	3.6			0							clear.
Navy Yard, Portsmouth, N. H.	29.84	757.9	55	12.8	100	calm	0	0			10		ne.	0.9	23.			misty.
Naval Hospital, Yokohama, Japan*	29.85	758.2	73	22.8	85	calm			0		0			0.37	9.4			clear.
Adams, Mare Island, Cal.	30.01	762.2	60	15.6	94	ssw.			2		0			0	0	sm'h		clear.
Alaska, Callao, Peru	29.95	760.7	59	15.0	88	calm			0		10			0	0	sm'h		cloudy.
Alert, N. 46° 47′, W. 170° 54′*	29.96	761.0	48	8.9	92	sw.			4		10		calm	0	0	sm'h		cloudy.
Alliance, Boston, Mass*†	29.88	758.9	58	14.4	88	nnw.			1		10			h'vy	h'vy			cloudy.
Ashuelot, Yokohama, Japan*	29.91	759.7	77	25.0	73	s.			2		2		ene.					clear.
Brooklyn, Rio de Janeiro, Brazil	30.41	772.4	66	18.9	94	calm			0		2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.94	760.5	62	16.7	83	w.	8	3.6			5		nw.	0.03	0.8			dense mist.
Constellation, N. 38° 14′, W. 72° 45′*	29.99	761.7	66	18.9	84	wnw.			2		2		calm			sm'h		fair.
Enterprise, New York, N. Y.*	29.90	759.4	62	16.7	83	nw.			3		0							clear.
Essex, Tamar Bay, Patagonia	28.84	732.5	43	6.1	83	nnw.			3-6		10		nnw.			sm'h	nnw.	overcast.
Franklin, Norfolk, Va.	30.02	762.5	69	20.6	80	n.	8	3.6			2		nw.	0	0			fair.
Galena, Alexandria, Egypt	29.88	758.9	78	25.6	91	nw.			2		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal.	29.93	760.2	57	13.9	94	sw.			4		0			0	0			hazy.
Iroquois, San Francisco, Cal.	30.07	763.8	57	13.9	87	sw.			2		0			0	0			clear.
Kearsarge, Norfolk, Va	30.02	762.5	70	21.1	90	n.			2		5		nw.					fair.
Lackawanna, Callao, Peru*	29.97	761.2	60	15.6	82	calm			0		10							cloudy.
Lancaster, Alexandria, Egypt*	29.83	757.7	80	26.7	91	nw.			2		0			0	0			clear.
Marion, S. 34° 54′, W. 56° 13′	30.15	765.8	50	10.0	100	nnw.			3		10		nw.	0	0	sm'h		cloudy.
Michigan, Detroit, Mich.	30.07	763.8	65	18.3	89	nw.			1		0							clear.
Minnesota, Newport, R. I.	29.91	759.7	60	15.6	88	w.	3	1.3			10							clearing.
Monocacy, Chefoo, China	29.74	755.4	77	25.0	69	s.			1		8		calm			sm'h		fair.
New Hampshire, Newport, R. I.	29.92	760.0	60	15.6	88	nw.			1		10		nw.			sm'h		clearing.
Nipsic, Zante, Greece*	29.93	760.2	81	27.2	49	nnw.			3		2					sm'h		clear.
Onward, Callao, Peru	30.13	765.3	59	15.0	88	calm			0		10		n.			long	v	cloudy.
Palos, Kobe, Japan*	29.81	757.2	76	24.4	86	calm			0		10		calm					cloudy.
Passaic, Washington, D. C.	30.05	763.3	66	18.9	?	nw.			1		0							clear.
Pensacola, N. 0° 29′ W. 81° 15′*	29.85	758.2	70	21.1	90	ssw.			3-4		8		ssw.	light	light	light	ssw.	showery.
Portsmouth, Lisbon, Portugal*	30.00	762.0	65	18.3	89	w.			5		2							clear.
Powhatan, Key West, Fla.	30.02	762.5	81	27.2	87	sw.			2		2		sw.					clear.
Quinnebaug, Alexandria, Egypt	29.85	758.2	79	26.1	82	nnw.			3		0					sm'h		hazy.
Ranger, Mare Island, Cal.	29.92	760.0	60	15.6	88	sw.			2		0			0	0			clear.
Richmond, Yokohama, Japan*	29.93	760.2	75	23.9	90	sse.			2		0			0.4	10.			clear.
Saratoga, Lisbon, Portugal	30.01	762.2	64	17.8	73	w.			3		1		w.	0	0	sm'h		clear.
St. Louis, League Island, Pa.	30.14	765.5	61	16.1	82	nw.			2		2			0	0			clear.
Swatara, Yokonama, Japan*	29.87	758.7	75	23.9	77	ssw.			2		0					sm'h		clear.
Tennessee, New York, N. Y.	29.95	760.7	72	22.2	76	w.	6	2.7			0			0	0			hazy.
Vandalia, Portsmouth, N. H*†	30.00	762.0	56	13.3	100	nw.			1		10		calm					light rain.
Wabash, Boston, Mass.	29.86	758.4	57	13.9	94	w.	3	1.3			10		w.	0.64	16.3			cloudy.
Wachusetts, Highfield Harbor, Alaska	30.14	765.5	47	8.3	92	e.			1		10		calm			sm'h		overcast
Wyoming, Port Royal, S. C.*	30.01	762.2	71	21.7	100	ne.	12	5.4			2		ne.	0	0			clear.
Yantic, off Bangor, Maine	29.84	757.9	61	16.1	94	ene.			1		10							rainy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
Allan Line.																		
S. S. Grecian, Quebec, Canada*	29.83	757.7	58	14.4		ene.			5		10			12 h'r	12 h'r			light rain.
S. S. Scandinavian, N. 49° 38′ W. 36° 05′*	29.85	758.2	56	13.3		wnw.			6		8		wnw.	sh's	sh's	high	short	d. clouds.
S. S. Waldensian, N. 54° 38′, W. 16° 13′*	29.14	740.1	55	12.8		var.			2		8		sw.	0	0	mod.	s.	cloudy.
American Steamship Company.																		
S. S. Lord Clive, N. 48° 28′, W. 27° 37′*†	29.85	758.2				wnw.			7		6		wnw.	shr's	shr's	r'gh	nw.	cloudy.
S. S. Lord Gough, Queenstown, Ireland	29.19	741.4	60	15.6		w.			6		8		w.	3 h'r	3 h'r	mod.	w.	squally
S. S. Pennsylvania, N. 48° 57′, ? W. 36° 31′†	30.15	765.8	59	15.0		nw.			4		8		n.			mod.	sw.	d. clouds.
Anchor Line.																		
S. S. Assyria, N. 37° 12′, W. 10° 03′*†	30.19	766.8	69	20.6		w.			3		2		w.	0	0	sm'h		clear.
S. S. Gallatia, N. 37° 05′ W. 6° 39′†	30.19	766.8	71	21.7		ene.			3		4		ne.	0	0	sm'h	ne.	clear.
S. S. Utopia, N. 41° 36′ W. 63° 02′†	30.27	768.8	64	17.8	78	sw.			3		9		sw.	1 h'r	1 h'r	h'vy	sw.	
Atlas Line.																		
S. S. Ailsa, N. 31° 36′, W. 74° 20′†	30.00	762.0	73	22.8	?	wsw.			5		10		sw.	4 h'r	4 h'r	con.		fine.
S. S. Alvena, N. 31° 29′ W. 74° 06′†	29.90	759.4	78	25.6	100	sw.			2		10			5 h'r	5 h'r	light	wsw.	gloomy.
S. S. Alvo, Kingston, Jamaica, W. I.	30.15	765.8				se.			4		3			0	0			clear.
S. S. Antillas, Ponce, Porto Rico, W. I*†	30.30	769.6				ese.												
British Meteorological Office.																		
S. S. Auckland, N. 15° 12′, W. 26° 33′	30.16	766.1	76	24.4	85	ene.			1		3							blue sky.
Bk. Arran, S 7° 15′, W. 75° 16′	29.90	759.4	77	25.0	88	sse.			5		10							overcast.
S. S. Basil, N. 46° 48′, W. 6° 15′	29.63	752.6	61.2	16.2	88	wsw.			6		9							d. clouds.
S. Baroda, S. 26° 28′, E. 41° 22′	30.29	769.4	68.2	20.1	64	ssw.			4		2							blue sky.
S. S. City of Agra, N. 16° 09′, W. 21° 35′	30.16	766.1	74	23.3	90	ne.					3							overcast.
S. S. Cipero, N. 14° 42′, W. 59° 56′	30.16	766.1	79.5	26.4	78	ene.			2		8							d. clouds.
S. S. Gordon Castle, N. 34° 55′, E. 20° 42′	30.01	762.2	78	25.6	69	n.			3–4		2							blue sky.
S. Oamaru, S. 28° 52′, E. 41° 00′	30.35	770.9	64.5	18.1	62	s.			5–6		3							d. clouds.
Cunard Line.																		
S. S. Bothnia, N. 40° 40′, W. 68° 21′	29.91	759.7	66	18.9	90	s.			3		10			3 h'r	3 h'r	con.		
S. S. Gallia, N. 45° 34′, W. 38° 53′	30.18	766.6	65	18.3	63	nw.			5		10		w.	0	0			overcast.
S. S. Marathon, N. 42° 26′, W. 47° 13′	30.35	770.9	70	21.1		sw.			2		10		sw.	0	0	mod.	sw.	misty.
S. S. Scythia, N. 49° 44′, W. 21° 03′	29.50	749.3	60.5	15.8	88	wnw.			5		5		nw.	1 h'r	1 h'r	mod	wnw.	squally.
General Trans-Atlantic Company.																		
S. S. France, N. 45° 22′, W. 37° 21′.†	30.07	763.7	60.8	16.0		nw.			5	ok		nw.		0	0	hv'y	nw.	covered.
S. S. Ville de Marseilles. Marseilles, France*†	29.90	759.4	77	25.0		w.			1–2		2			0	0			clear.
Guion Line.																		
S. S. Arizona, N. 45° 59′, W. 42° 53′	30.24	768.1	54	12.2					2		10		w.	4 h'r	4 h'r	sm'h		drizzling.
S. S. Wisconsin, N. 51° 10′, W. 15° 10′	29.29	744.0	60	15.6	82	wnw.			2		5		wnw.	4 h'r	4 h'r	long	wnw.	squally.
Hamburg American Packet Company.																		
S. S. Bohemia, N. 53° 20′, E. 5° 18′†	29.56	750.8				w.			5		2		wnw.	1 h'r	1 h'r	sm'h	wsw.	
S. S. Cimbria, N. 41° 07′, W. 58° 49′	30.25	768 3	78	25.6		sw.			5		2		sw.	0	0	long	sw.	clear.
S. S. Gellert, N. 44° 48′, W. 37° 56′	30.18	766.6	67	19.4		w.			3		2		wnw.	0	0	mod.	wnw.	fair.
S. S. Herder, New York, N. Y*†	29.96	761.0	74	23.3		wnw.			1		5		nw.	0	0			fair.
S. S. Silesia, N. 49° 05′, W. 15° 52′†	29.56	750.8				w.			6		7		w.	rain	rain	6	w.	squally.
Lampert and Holt's Line.																		
S. S. Hevelius, N. 35° 00′, W. 15° 00′*†	30.29	769.4	71	21.7		wsw.			3		9		wsw.	1 h'r	1 h'r	long	wnw.	hazy.
Mallory Line.																		
S. S. Colorado, Key West, Fla. †	30.00	762.0	82	27.8		sw.			2		3		sw.	0	0			clear.
Merchants' Express Line.																		
S. S. Freja, N. 37° 18′. W. 65° 07′†	30.18	766.6	82	27.8	87	ssw.			6		5		sw.	0	0	r'gh	sw.	
Merchants' Steamship Company.																		
S. S. Glenfyne, Rio de Janeiro, Brazil	29.72	754.9				var.			3				wsw.	0	0			fine.
S. S. Glenapp, N. 26° 15′, W. 63° 25′†	30.29	769.4				se.			2		3		e.	0	0	sm'h		fine.
National Line.																		
S. S. Canada, N. 40° 35′, W. 63° 00′†	30.06	763.5	70	21.1		sse.			4		0			0	0	r'gh	s.	squally.
S. S. Denmark, London, Eng	29.52	749.8	60	15.6		ssw.			6		10		ssw.	3 h'r	3 h'r			squally.
S. S. England, Queenstown, Ireland	29.36	745.7				wsw.			6		8		wsw.	4 h'r	4 h'r	high	wsw.	cloudy.
S. S. Erin, Liverpool, Eng	29.48	748.8	59	15.0		wnw.			6		4		wnw.	5 h'r	5 h'r			showery.
S. S. Greece, N. 47° 41′ W 25° 28′	29.76	755.9				nnw.			5		8		nnw.	0	0	mod.	nnw.	overcast.
New York and Cuba Mail Steamship Company.																		
S. S. Santiago, N. 19° 50′. W. 75° 45′†	30.12	765.0	81	27.2		e.			3		7		ene.	0	0	gentle	e.	cloudy.
New York, Havana and Mexican Mail.																		
S. S. City of Alexandria, Vera Cruz, Mexico†	30.09	764.3	80	26.7	91	sw.			3		2		ene.	0	0			clear.
S. S. City of Washington, Havana, Cuba, W. I*†	30.20	767.1	85	29.4		calm			0		5			0	0			fine.
North German Lloyd																		
S. S. Habsburg, N. 41° 21′, W. 42° 30′	30.43	772.9	71.6	22.0		w.			5		2		w	0	0	mod.	w.	clear.
S. S. Hermann, N. 44° 08′, W. 41° 35′	30.30	769.6	64.4	18.0		sw.			3		6		w.	0	0	mod.	wsw.	foggy.
S. S. Leipzig, N. 42° 43′, W. 41° 01′	30.34	770.6	69.0	20.6	97	nnw.			4		8		nw.	0	0	mod.	wnw.	fair.
S. S. Mosel, N. 49° 37′, W. 14° 04′	29.45	748.0	57.2	14.0		w.			7		6		w.	4 h'r	4 h'r	cross	w.	cloudy.
S. S. Ohio, Bremerhaven, Germany	29.58	751.3				sw.			3–6		6		sw.	20 h'r	20 h'r			raining.
S. S. Rhien, N. 43° 19′, W. 42° 16′	30.28	769.1				w.			4		9		w.	light	light	mod.	w.	cloudy.
S. S. Salier, Baltimore, Md	29.91	759.7	62.6	17.0		nw.			2		2		wnw.	0	0			fair.
S. S. Strassburg, N. 52° 38′, E. 3° 43′	29.42	747.3	66.0	18.9	68	sw.			6		9		sw.	0	0	r'gh	sw.	covered.
Occidental and Oriental Steamship Company.																		
S. S. Arabic, N. 26° 37′, E. 124° 27′*†	29.80	756.9	81	27.2	91	ssw.			5		2		ssw.	0	0	mod.	sw.	blue sky.
S. S. Belgic. San Francisco, Cal†	29.97	761.2	62	16.7	77	wsw.			1		2		wsw.					clear.
S. S. Gaelic, N. 45° 44′, W. 147° 23′†	30.59	777.0	59	15.0	33	ese.			2		8		se.			light	ene.	cloudy.
S. S. Oceanic, Hong Kong, China*	29.82	757.4	87	30.6	72	ssw.			3		2		ne.					fine.
Ocean Steamship Company.																		
S. S. City of Augusta, Savannah, Ga†	30.05	763.3				n.			1		2		w.	0	0			clear.
S. S. City of Columbus, N. 33° 52′, W. 77° 19′†	29.96	761.0				nne.			5		4		ne.	0	0	long	s.	clear.
S. S. Seminole, Boston, Mass†	30.02	762.5	68	20.0	79	wnw.			3		5		w.	12 h'r	12 h'r			fair.
Oregon Railway and Navigation Company.																		
S. S. Oregon, N. 38° 26′ W. 123° 54′†	29.94	760.5	58	14.4	76	e.			1		0					sm'h		hazy.
Pacific Coast Steamship Company.																		
S. S. Ancon, N. 35° 11′, W. 120° 50′†	29.88	758.9	52	11.1	86	s.			2		10		s.			sm'h		foggy.
S. S. State of California, Portland, Oregon†	30.15	765.8	60	15.6	88	nw.			3		4		nw.					fair.
S. S. Victoria, Nanaimo, Vancouver's I'd.†	29.98	761.5	54	12.2	68	calm			0		0			0	0			clear.
Pacific Mail Steamship Company.																		
S. S Australia, Sydney, N. S. W	30.14	765 5	51	10.6	93	sw.			3		0			0	0			clear.
S. S. City of New York, N. 26° 49′, W. 145° 16′†	30.24	768.1	73	22.8	72	ne.			1		5		ne.	0	0	sm'h		fair.
S. S. City of Pekin, N. 34° 54′, E. 140° 16′†	30.05	763.3	73	22.8	81	ese.			5		5		se.	0	0	small	se.	fair.
S. S. City of Sydney, Sydney, N. S. W.†	30.16	766.1	44	6.7	84	calm			0		1		wnw.	0	0	sm'h		clear
S. S. City of Tokio, N. 43° 08′, W. 151° 51′†	30.43	772.9	61	16.1	77	s.			4		10			0	0	small	se.	foggy.
S. S. Colon, N. 22° 50′, W. 74° 24′†	30.03	762.7	84	28.9		se.			3		6		s.	0	0	sm'h	se.	
S. S. Colima, N. 9° 02′, W. 84° 50′.†	29.89	759.2	80	26.7	91	sw.			3		10		s.	0.20	5.1	mod.	ssw.	cloudy.
S. S. Granada, N. 14° 26′ W. 92° 56′†	29.90	759.4	83	28.3	100	nw.			1		2		n.	0	0	light	sw.	clear.
S. S. Zealandia, N. 28° 24′, W. 145° 13′	30.25	768.3	73	22.8	85	ne.			4		8		ne.			sm'h		squally.
Quebec Steamship Co.																		
S. S. Muriel, off Tobago, W. I.	29.97	761.2	82	27.8		ene.			3		10			0	0	sm'h		overcast.
Red Star Line.																		
S. S. Belgenland, Antwerp, Belgium†	29.64	752.8	64	17.8	73	wsw.			6		8		wsw.	4 h'r	4 h'r			showery.
S. S. Rhynland, N. 48° 09′, W 27° 40′	29.81	757.2	58	14.4	82	wnw.			6		9		wnw.	0.1	3.	long	wnw.	cloudy.
S. S. Switzerland, N. 46° 44′. W. 28° 36′	29.98	761.5				w.			4		10		w.	0	0	long	w.	cloudy.
S. S. Vaderland, N. 50° 20′, W. 2° 30′	29.47	748.5	59	15.0	94	ssw.			5		10		sw.	0	0	mod.		hazy

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. Schiedam, N. 47° 18′ W 36° 56′*	30.05	763.3	63.1	17.3	73	wnw.			6		7		w.	0	0	r'gh	wnw.	cloudy.
S. S. W. A. Scholten, N. 48° 30′ W. 23° 30′	29.52	749.8	58.9	14.9	88	wnw.			6		7		w.	8 h'r	8 h'r	r'gh	nw.	raining.
STATE LINE.																		
S. S. State of Florida, N. 46° 19′, W. 35° 20′	30.03	762.7	62	16.7		nw.			5		10		nnw.	driz.	driz.	mod.	nw.	cloudy.
S. S. Indiana, N. 40° 30′. W. 73° 45′†	30.14	765.5	63	17.2		w.			2		1		w.	4 h'r	4 h'r	sm'h		clear.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 58° 02′, W. 11° 02′†	29.31	744.5	59.9	15.5		ene.			2		4		ene.	5 h'r	5 h'r	long	ene.	clear.
WARREN LINE.																		
S. S. Iowa, N. 49° 16′ W. 22° 29′*†	29.75	755.6	58	14.4		wnw.			6		8		wnw.	1 h'r	1 h'r	hv'y	wnw.	fair.
WHITE STAR LINE.																		
S. S. Baltic, N. 45° 37′ W. 37° 09′†	30.31	769.9	52	11.1	77	nw.			4		10		nw.	2 h'r	2 h'r	sm'h	nw.	cloudy.
S. S. Britannic, N. 42° 22′, W. 55° 05′†	30.34	770.6	66	18.9	100	sw.			4		fg.					mod.	sw.	foggy.
S. S. Celtic, New York, N. Y†	29.96	761.0	63	17.2	83	wnw.			2		0			8 h'r	8 h'r			fine.
S. S. Republic, N. 49° 11′, W. 25° 50′†	29.85	758.2	60	15.6	88	w.			6		9		w.	shr's	sh'rs	high	w.	showery.
WILSON LINE.																		
S. S. Romano, N. 42° 19′ W. 42° 20′	29.31	769.9	77	25.0		n.			5		6?		wsw.	0	0	sm'h		clear ?
WINSOR LINE.																		
S. S. Catherine Whiting, Cape May, N. J†	30.06	763.5	68	20.0		nw.								0	0	long	se.	
MISCELLANEOUS.																		
Schr. Addie Fuller, Bath, Me†	29.88	758.9	56	13.3	93	n.					fg.			0.49	12.4			foggy.
Schr. Ajax, Indianola, Texas						calm			0		7		se.	0	0			fair.
Bk. Alpha, New York, N. Y†	29.89	759.2	62	16.7		wnw.			1		0			6 h'r	6 h'r			clear.
Schr. Annie Lewis, N. 28° 30′, W. 95° 05′†	30.13	765.3	83	28.3		ene.			2		5?		se.	0	0	sm'h		cloudy.?
Bk. Anna Thormann, S. 35° 28′, W. 9° 48′	30.35	771.0	58.8	14.9	68	sw.			4		1 k		wsw.	2 h'r	2 h'r	mod.	sw.	clear.
S. S. Antonio Lopez, N. 37° 27′, E. 0° 50′	29.96	761.0	76	24.4	81	ese.			2		0			0	0	sm'h		hazy.
Bk. Argonaut, N. 58° 58′, W 0° 58′*†	29.27	743.4	56 5	13.6		sse.			2		3		se.	0	0	mod.	s.	fair.
Schr. Asa Eldridge, N. 25° 18′, W. 81° 47′†	30.14	765.5				ssw.			3		3		wsw.	0	0	long	wnw.	fair.
Bk. Aureola, S. 14° 18′, W. 38° 34′*†	30.41	772.4	78	25.6		ssw.			4		8		s.	2 h'r	2 h'r	mod.	s.	cloudy.
Bk. Bergenseren, N. 45° 05′, W. 60° 33′†	30.02	762.5				sw.			2		fg.			h'vy	h'vy	5	ssw.	foggy.
Bk. Cato, N. 47° 47′, W. 32° 26′*†	30.28	769.1				wnw.			5		5		wnw.	0	0	mod.	wnw.	cloudy.
Schr. C. R. Flint, Cedar Keys, Florida†	30.10	764.5	76	24.4		n.			1		5		nw.	0	0			clear.?
Schr. Edith R. Seward, St. John, W. I*†	30.19	766.8	83	28.3		se.			1		2		se.	3 h'r	3 h'r	sm'h		clear.
S. E. J. Spicer, N. 40° 40′. W. 69° 30′†	30.00	762.0				wsw			4		10		sw.	rain	rain	long	sw.	dense fog.
S. Enoch Train, N. 38° 43′, W. 71° 46′*†	30.20?	767.1?				w.			2		5		w.	0	0	sm'h		fine.
Bk. Essex, S. 31° 02′ W. 19° 37′*†	30.22	767.6	65	18.3		wsw.			3		2		w.	½ h'r	½ h'r	hv'y	w.	clear.
Bk. Freya, N. 40° 56′, W. 64° 44′			65	18.3		s.			5					2 h'r	2 h'r	high	wsw.	foggy.
S. Grecian, Hong Kong, China*†	29.93	760.2	85	29.4		s.			3		5?		s.	0	0			clear.?
Bk. Hattie G. McFarland, Portland. Me*†	29.84	757.9	61	16.1		e.			1		0			0	0			fair.
S. Hedwig, N. 37° 07′, E. 1° 52′	30.00	762.0	82.2	27.9	80	wsw.			5		0			0	0	sm'h	w.	
Bk. Horace Scudder, N. 34° 00′, W. 70° 00′†	30.06	763.5	74	23.3		wsw.			5		10		s.	4 h'r	4 h'r	long	wsw.	d. clouds.
S. Ivy, N. 21° 30′, W. 125° 40′†	30.28	769.1	68	20.0		ene.			2		10		ene.	0	0	sm'h	se.	misty.
S. Ismir, S. 45° 30′, E. 32° 00′†	30.42	772.7				nne.			6		10		ne.	1 h'r	1 h'r	sm'h	ne.	dull.
Schr. Jennie N. Huddell, Camden, N. J†	30.05	763.3	63	17.2	88	nnw.			1		0			0	0			clear.
Bk. Johanne, N. 56° 27′, E. 3° 04′*†	29.25	742.9	61	16.1		w.			5		5?		wnw.	0	0	mod.	nw.	clear.?
Schr. John L. Thomas, Vivorilla Cay, Mosquito Coast*†	30.06	763.5				ene.			4		3		ene.	½h'r	½h'r			fair
Bg. John Wesley, N. 31° 43′ W. 68° 47′†	30.08	764.0				sw.			4		6		ssw.	2 h'r	2 h'r	rg'h	s.	hazy.
Bk. Joseph A. Ropes, N. 12° 12′, W. 30° 06′*†	30.19	765.8	84	28.9	83	ne.			1		6		ne.	3 h'r	3 h'r	mod.	se.	fair.
Bkt. Josephine, N. 39° 57′, W. 71° 09′†	29.90	759.4	65	18.3	90	wsw.			2		10			1 h'r	1 h'r	long	ssw.	cloudy.
S. S. Lamperts, N. 29° 03′, E. 32° 46′*	29.74	755.4	79.0	26.1	69	nw.			6		0							misty.
S. S. Laurel, Key West, Fla†	30.07	763.8	84	28.9		sw.			2		5		sw.	0	0			fair.
Bk. Liberia, N. 9° 13′, W. 18° 02′*	30.01	762.2	79	26.1	78	wsw.			4		5		w.	0	0			fine.
S. S. Malabar, N. 48° 32′, E. 179° 39′*†	29.67	753.6				sw.			10				sw.	0	0		sw.	hazy.
Bk Orpheus, N. 48° 52′, W. 7° 12′	29.56	750.8	62	16.7		w.			6		8 k		w.			mod.	wnw.	squally.
S. Paramita, S. 25° 32′ W. 92° 25′†	30.12	765.0	73	22.8		n.			1		2			0	0	long	sw	clear.
S. S. Ponca, N. 3° 40′ W. 48° 15′†	30.07	763.8	86	30.0		ese.			1		1		ene.	0	0	light	ese.	clear.
S. S. Sunbeam, N. 40° 33′, E. 27° 12′	29.99	761.7	73	22.8	54	calm			0		2							blue sky.
S. Sovereign of the Sea, N. 13° 58′ W. 31° 21′*†	30.06	763.5	84	28.9	87	ene.			1		4		ene.	2 h'r	2 h'r	cross		clear.
Bg. Teneriffe, Cardenas, Cuba, W. I.	30.07	763.8				se.			1									
Bk. Truro, N. 46° 53′, W. 25° 10′*†	29.83	757.7				wnw.			7		8		wnw.	0	0	r'gh	wnw.	cloudy.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†	30.27	768.8	78	25.6	90	n.			2		1		calm	0	0			clear.
S. S. Victoria J. Peed, N. 16° 38′, W. 75° 50′*†	30.00	762.0				ese.			7		0							
Schr. Viola Reppard. Baltimore, Md†	29.93	760.2	74	23.3		n.			2		0			0	0			clear.
Bk. Wm. Wilcox, S. 23° 00′, W. 40° 19′*†	30.50	774.7	72	22.2		s.			4		5		se.	2 h'r	2 h'r	mod.	e.	fair.
S. Wm. Woodbury, N. 46° 20′, W. 19° 07′*	29.78	756.4	64	17.8	83	nw.			7		8		nw.	sq'ls	sq'ls	long	wnw.	cloudy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 7, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.97	761.1	77.4	25.2	84	sw.			5		3			0	0	pretty fair	Bouvier.
Algiers			29.95	760.6	84.6	29.2	44	nnw.			3		0			0	0	clear	Nicolas.
La Galle			29.95	760.6	102.2	39.0	29	w.			1		0			0	0	clear	Fonfrède.
Tunis			29.97	761.2															Jacques.
Saida			30.04	762.9	88.5	31.4	31	ene.			2		0			0	0	clear	Perès.
Tebessa			30.04	762.9	94.6	34.8	12	sw.			1		0			0	0	clear	Derché.
Geriville					95.0	35.0	3	wsw.			8		0			0	0	clear	Lonchamp.
Laghouat			30.08	763.9	104.0	40.0	43	s.			1		0			0	0	clear	Abraham.
Biskra			30.03	762.8	101.8	38.8	19	se.			2		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.63	752.6	29.72	754.9	50.0	10.0	80	n.	4	1.8			1			0.07	1.8	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.31	744.5	29.83	757.7	79.7	26.5	43	sw.			4		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.05	737.9	29.79	756.0	73.0	22.8	56	w.	0.7	0.3			10			0	0		Dr. Wierzbiski.
Eperies	28.97	735.7	29.80	756.9	75.9	24.4	54	calm			0	2 cs	0			0	0		Julius Mikolik.
Gratz	28.58	726.0	29.77	756.1	75.2	24.0	76	sw.			4		5			0	0		Andreas Rospini.
Hermannstadt	28.52	724.4	29.86	758.5	77.9	25.5	55	nw.			4		2			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.41	721.7	29.68	753.9	75.6	24.2	55	ene.			2	3	6 k			0	0	cloudy	The Staff.
Lemberg	29.00	736.6	29.95	760.6	72.9	22.7	50	nw.			2		9			0	0		Dr. T. Stanecki.
Pola	29.82	757.5	29.93	760.2	81.1	27.3	56	se.			4		1			0	0		I. R. Hydrographic Office.
Szathmar	29.40	746.8	29.85	758.1	77.7	25.4	53	e.			1		8			0.028	0.7	showery	Joseph Midlinszky, S. J.
Szegedin					77.5	25.3	42									0	0		Karl Stancel.
Trieste	29.85	758.2	29.95	760.8	80.6	27.0	52	sw.			1		6			0	0		Royal Academy.
Vienna	29.08	738.7	29.76	755.9	78.4	25.8	47	se.			2		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.00	736.6	29.10	739.1	57.7	14.3	84	ene.	11	4.9			6			0.500	12.7	d. clouds	W. Boswell
Armagh, Observatory	28.94	735.1	29.17	740.9	60.2	15.7	69	w.	3	1.3			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.22	742.2	61.4	16.3	63	sw.	20	8.9			8					overcast	John Hartnup.
Bolton, Sharples	28.69	728.7	29.21	741.9	53.8	12.1	85	sw.	6	2.7			10					raining	Thomas Mackereth, [ton.
Bradford, Yorkshire	28.82	732.0	29.22	742.2	55.4	13.0	80	sw.			1		8			0.49	12.4	raining	McLandsborough & Pres
Bridgetown, Barbadoes	30.05	763.3	30.08	764.0	83.0	28.3	70	ne.			3		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.31	744.5	63.4	17.4	78	sw.			7.0		8					thnd'er st'rm	John McLaren.
Chatham, School M. E.	29.30	744.2	29.43	747.5	63.4	17.4	66	sw.			2		7			blank	blank	d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.11	739.4	29.33	745.0	61.1	16.2	68	ssw.			4		9					overcast	The Staff.
Fort Napier, Natal	27.88	708.1	30.09	764.3	71.6	22.0	38	calm			0		1					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.68	753.9	29.92	760.0	83.0	28.3	78	nw.			1		6						Sergt. John Robinson.
Gibraltar, Mediterranean	29.95	760.7	30.00	762.0	76.5	24.7	76	w.			5		5					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	28.92	734.6	29.12	739.6	61.9	16.6	65	wnw.			2		8 n					threatening.	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.22	742.2	29.38	746.2	64.0	17.8	62	sw.			1		4					showery	The Staff.
Guernsey	29.16	740.7	29.44	747.8	62.0	16.7	77	sw.			3		5					showery	A. Collenette, F. M. S.
Kew, Observatory	29.35	745.5	29.39	746.5	60.8	16.0	68	sw.	27	12.1			9					showery	The Staff.
Leicester, Museum	29.04	737.6	29.29	744.0	61.8	16.6	63	sw.			3		2					d clouds	J. C. Smith.
Malta, Mediterranean	29.97	761.2	30.04	763.0	82.2	27.9	70	n.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.12	765.0	30.16	766.1	79.0	26.1	80	se.			1		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	28.78	731.0	29.28	743.7	63.5	17.5	61	ssw.			5		5					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.12	739.6	29.34	745.2	62.8	17.1	63	sse.			5		8					threatening.	The Staff.
Plymouth	29.28	743.7	29.36	745.7	63.5	17.5	72	sw.			4		6					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.17	740.9	58	14.4	76						0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.86	758.4	29.92	760.0	84.8	29.3	43	sw.			1		0					blue sky	W. H. Lyne.
Sheffield	28.98	736.1	29.24	742.7	64.9	18.3	70	sw.			1		5			0.25	6.3	d. clouds	W. F. Cooper.
Siloth Rectory	29.12	739.6	29.15	740.4	62.3	16.8	72	sw.			3		7			0.028	0.7	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.23	742.4	55.1	12.8	86	w.	18	8.0			10			blank	blank	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.17	740.9	29.38	746.2	62.1	16.7	77	sw.			3		5			blank	blank	squally	Rev. O. H. Griffiths, F. M. S.
Truro, Royal Institution	29.32	744.7	29.33	745.0	65	18.3	68	sw.			6		0					d. clouds	W. Newcombe.
Valencia, Observatory	29.16	740.7	29.19	741.4	59.7	15.4	76	wsw.	18	8.0			7					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.95	760.7	29.99	761.7	60	15.6	90	sw.	6	2.7			10 s		sw.	0.115	2.9	clearing	H. J. Cundall, C. E.
Chatham, N. B*	29.89	759.2	29.95	760.7	63	17.2	90	w.	3	1.3		0	2 k		w.	0.31	7.9	fair	G. A. Blair.
Father Point, Quebec*	29.84	757.9	29.86	758.4	52	11.1	93	w.	17	7.6		0	2 k		calm	0.48	12.2	clear	J. McWilliams.
Fort Garry, Manitoba*	28.96	735.6	29.77	756.1	55	12.8	93	n.	5	2.2		0	0			0	0	clear	James Stewart.
Halifax, N. S*	29.94	760.5	30.07	763.8	59	15.0	96	sw.	3	1.3			10 ks		sw.	0.338	8.6	cloudy	A. Allison.
Kingston, Ontario*	29.71	754.0	30.04	763.0	64	17.8	73	n.	10	4.5		0	0			0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.80	756.9	30.00	762.0	65	18.3	75	w.	12	5.4		0	0			0.02	0.5	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.28	743.7	29.95	760.7	65	18.3	73	s.	12	5.4		2 cs	2 ks	sw.	sw.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.35	745.5	30.02	762.5	63	17.2	94	sw.	6	2.7		5 c	0	sw.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.38	746.2	30.01	762.2	64	17.8	76	s.	3	1.3		5 ck	0	sw.		0	0	fair	M. Payne.
Quebec, Quebec*	29.65	753.1	29.97	761.2	59	15.0	96	w.			5		8 n		nw.	0.03	0.8	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.48	748.8	29.92	760.0	57	13.9	83	calm	0	0		5 c	0	nw.		inap.	inap.	fair	W. H. McIntyre.
Saugeen, Ontario*	29.30	744.2	30.00	762.0	56	13.3	90	s.	6	2.7		2 cs	0			0	0	clear	
St. Andrews, N. B	29.97	762.2	30.02	762.5	54	12.2	97	se.	1	0.4		0	fg.			0	0	foggy	
Sydney, C. B*	29.95	760.7	30.01	762.2	61	16.1	90	sw.	19	8.5		2 c	2 n		w.	0.26	6.6	fair	T. C. Hill, C. E
Toronto, Ontario*	29.67	753.6	30.04	763.0	63	17.2	78	s.	7	3.1		5 cs	0	w.		0	0	fair	Magnetic Observatory
Yarmouth, N. S*	30.01	762.2	30.07	763.8	54	12.2	96	s.	1	0.4		8 ck	hz.	sw.		0	0	cloudy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
Mount Forest	28.60	726.4	30.04	763.0	60.0	15.6	76	w.			2	3 c;cs	3 c;cs	w.		0	0		Wm. Wylie.
St. Johns, Newfoundland	30.10?	764.5?	30.34?	770.6?	67?	19.4?	100	s.	4	1.8		10 k	10 s			0.95	24.1	showery	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.92	760.0	29.95	760.7	62.0	16.7	88	n.	3.2	1.4			9 n					drizzling	John Duthie.
Cape Town, C. G. H. Obs'y	29.96	761.0	30.00	762.0	56.3	13.5	100	nw.	23	10.3		10	10			1.350	34.3		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.78	756.5	29.81	757.1	73.4	23.0	91	ese.	8.9	4.0			3			0	0	fair	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.50	749.3	29.55	750.5	64.0	17.8	71	s.	13	6			6						Oversergent Fischer.
Fanöe	29.46	748.3	29.48	748.8	63.3	17.4	74	wsw.			6		3						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.43	747.5	29.47	748.6	39.9	4.4	92	ne.			8		8					raining	A. O. Thorlacius.
Thorshavn	29.24	742.7	29.28	743.6	52.3	11.3	91	e.	7	3			10						Overloerer Bergh.
Vestervig	29.35	745.4	29.44	747.7	62.4	16.9	79	sw.			4		3						Loerer Oesterbol.
French.																			
Agen, Normal School	29.12	739.6	29.75	755.6	64.8	18.2	83	ne.			1		n;k		nw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.04	737.6	29.59	751.6	61.9	16.6	92	s.			1		10			0.283	7.2	raining	M. Nicot, Director.
Arras, Engineer School	29.26	743.3	29.51	749.5	65.7	18.7	83	n.			3		kn		n.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.70	754.3	29.78	756.3	79.5	26.4	72	s.			2		5		sw.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.18	741.2	29.72	754.9	63.7	17.6	80	s.			1		10		wsw.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.34	745.2	29.59	751.6	67.8	19.9	64	ssw.			2		8		sw.	0.126	3.2	very cloudy.	M. Frère Eugène Marié.
Besançon, Normal School	28.85	732.7	29.80	757.0	61.5	16.4	88	sw.			1		10		sw.	0.650	16.5	raining	M. Gobin, Director.
Bordeaux, Observatory	29.49	749.1	29.75	755.7	59.2	15.1	87	e.			1		10			0.350	8.9	raining	M. Rayet, Director.
Bourges, Normal School	29.20	741.7	29.74	755.5	58.6	14.8	84	s.			2		n		s.	0.008	0.2		M. Malet, Director.
Brest, Naval Observatory	29.27	743.4	29.51	749.6	64.4	18.0	71	sw.			4		2		sw.	0.118	3.0	hailing	M. de Kermaree, Dir.
Caen, Normal School	29.54	750.4	29.62	752.3	66.2	19	59	s.			3		2		sw.	0.12	3.	slightly cl'dy.	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.36	745.8	29.67	753.7	62.1	16.7	73	ssw.			2		10			0.244	6.2	covered	M. Jadot, Director.
Charleville, Normal School	29.07	738.4	29.56	750.9	64.0	17.8	65	w.			3					0.091	2.3		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.45	722.5	29.79	756.6	57.6	14.2	95	ene.			1		10			0.154	3.9	raining	M. Alluard, Director.
Cluny, Normal School	28.94	735.0	29.76	756.0	61.2	16.2	87	s.			2		8			0.138	3.5		M. de Villemontée, Dir.
Commercy, Normal School	28.86	733.1	29.71	754.5	63.3	17.4	70	ssw.			3		10 kn		ssw.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.33	694.2	29.75	755.7	76.3	24.6	43	sw.			2	4	4 sn		w.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.71	729.2	29.77	756.2	82.4	28	40	se.			3		3		se	0	0		M. Kina, Director.
Grenoble, Normal School	28.95	735.2	29.68	753.9	71.8	22.1	68	nnw.			1		kn		sw.	0	c		M. Ablard, Director.
Guéret, Normal School	28.21	716.4	29.75	755.7	54.5	12.5	90	sw.			3		10 n			0.583	14.8	raining	M. Rivoire, Director.
Lamballe, Normal School	29.23	742.4	29.49	749.1	64.4	18	62	s.			3		5		s.	0.256	6.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.15	740.3	29.69	754.1	73.4	23.0	66	w.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.44	747.8	29.54	750.4	64.4	18	80	sw			3		8		sw.	0.551	14.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.73	729.7	29.77	756.1	61.0	16.1	88	n.			2		10 n		s.	0	0	covered	M. André, Director.
Mans, Normal School	29.32	744.7	29.62	752.4	59.5	15.3	82	sw.			4		5		sw.	0.177	4.5	cloudy	M. Piboen, Director.
Marseille, Observatory	29.55	750.6	29.81	757.2	79.2	26.2	59	se.			2		3		sse.	0.008	0.2		M. Stephan, Director.
Montlouis	24.68	626.8	29.52	749.8	69.8	21.0	22	w.	26.2	11.7			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.61	752.1	29.74	755.3	72.0	22.2	90	sse.			3		8		sse.	0.094	2.4	light rain	M. Gatzin, Director.
Nancy, Normal School	28.97	735.8	29.74	755.3	63.7	17.6	72	s.			2		kn		sw.	0.016	0.4		M. Hasse, Director
Nantes, Observatory	29.48	748.7	29.54	752.8	66.6	19.2	72	sw.			2–3		10 kn		sw.	0.520	13.2		M. Larocque, Director.
Perpignan, Observatory	29.59	751.6	29.69	754.2	81.0	27.2	55	ne.	13.0	5.8			8		nnw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.17	537.6			45.5	7.5		sw.			2		10		sw.	0.047	1.2	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.72	729.5	29.74	755.4	73.4	23	66	s.			4		10			0	0	covered	M. Tailleu.
Puy de Dôme Obs'y, Summit	24.97	634.2			46.0	7.8	100	wsw.			3		10			0.319	8.1	rain & fog	M. Alluard, Director.
Rochefort, Naval Obs'y	29.66	753.4	29.69	754.2	64.2	17.9	83	ssw.			2		10		sw.			raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.38	746.2	29.59	751.6	63.0	17.2	86	ssw.			1		10			0.583	14.8	covered	M. Mouillot, Director.
Rodez, Normal School	27.66	702.5	29.72	754.9	71.6	22.0	74	se.			1		10		ne.	0	0	covered	M. Seger, Director.
Rouen, Normal School	29.50	749.2	29.54	750.4	66.9	19.4	75	sw.			2		8		sw.	0.12	3.	very cloudy	M. Brotier.
Saint Maur, Observatory	29.47	748.4	29.63	752.6	63.3	17.4	67	sw.			3		10		sw.	0.197	5.0		M. Renou, Director.
Toulouse, Observatory	29.07	738.3	29.87	758.6	83.8?	28.8?	41	nne.			1		5		w.	0	0	cloudy	M. Baillaud, Director.
Tours	29.47	748.6	29.65	753.1	67.3	19.6	76	sw.			3		10		sw.	0.209	5.3	rainy	M. de Tastes.
Versailles, Observatory	29.13	739.9	29.62	752.4	62.6	17.0	70	sw.			3					0.154	3.9		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.34	745.2	29.63	752.6	63.9	17.7	67	ssw.			3		10		ssw.	0.173	4.4		M. Marié Davy, Director
German.																			
Bamberg	28.90	734.1	29.75	755.6	63.1	17.3	80	sw.			1	0	9 n		sw.	0.181	4.6	raining	Prof. Dr. Hoh.
Berlin	29.53	750.1	29.70	754.4	72.0	22.2	48	nw.			2		9			0	0		Prof. Dr. Arndt.
Breslau	29.24	742.7	29.77	756.1	76.3	24.6	32	sw.			2		7			0	0		Royal University Obs'y.
Carlsruhe	29.30	744.1	29.72	754.9	64.6	18.1	91	sw.			3		10		sw.	0.374	9.5	raining	Albert Senz.
Cassel	28.90	734.0	29.61	752.1	67.6	19.8	61	s			8		8		sw.	0.012	0.3		Dr. H. Möhl.
Frankfort-on-the-Main	29.30	744.3	29.65	753.2	64.6	18.1	84	ssw.			1		10			0.547	13.9		Physical Society.
Friedrichshafen	28.31	719.1	29.67	753.7	72.7	22.6	62	wsw.			3		8		wsw.	0	0		Wilhelm, Chief Tel.
Hamburg	29.47	748.4	29.56	750.8	66.9	19.4	65	s.			4		8		sw.	0.130	3.3	squally	E. Preller.
Kiel	29.51	749.5	29.52	749.9	67.6	19.8	55	sw.			2		7			0.232	5.9		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.26	743.3	29.67	753.5	72.0	22.2	57	sw.			5		9		sw.	0.157	4.0		H. Leppig, Asst.
Magdeburg	29.44	747.7	29.62	752.3	69.4	20.8	65	ssw.			3	c	7 k		sw.	0.012	0.3		Dr. Assmann.
Memel	29.71	754.6	29.76	755.8	67.1	19.5	75	wnw.			3	0	1 k						Issermann.
Munich	27.97	710.4	29.82	757.3	70.7	21.5	48	ne.			3		8		sw.	0	0		Dr. C. Lang.
Neufahrwasser	29.70	754.4	29.72	754.8	71.6	22.0	50	w.			2		10			0	0		A. Lottes.
Neustadt, Palatinate	29.16	740.7	29.69	754.0	63.1	17.3	88	ssw.			4		10		w.	0.181	4.6		Dickuether.
Stuttgart	28.81	731.7	29.67	753.7	62.6	17.0	87	sw.			1		10			0.709	18.0		Prof. Dr. Schoder.
Wustrow	29.57	751.0	29.59	751.6	67.3	19.6	82	s.			3		10 s			0.020	0.5		Profs. Brandes & Reimer
Greek.																			
Athens	29.60	751.8			86.4	30.2		s.			3.0		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.44	747.8	29.49	749.1	84.9	29.4	91	wsw.	24.0	10.7			10			1.11	28.2	overcast	
Deesa	28.98	736.1	29.44	747.8	88.8	31.6	61	ese.	11.0	4.9			10		se.	0	0	overcast	
Bombay	29.53	749.9	29.56	750.9	77.2	25.1	97	wsw.	22.0	9.8			10		sw.	0.80	20.3	raining	
Poona, Yarrowda	27.75	704.8	29.61	752.1	72.4	22.4	90	wsw.	17.0	7.6			10		w.	0.93	23.6	raining	
Trichinopoly	29.53	750.2	29.81	757.2	85.3	29.6	53	w.	7.0	3.1			10			0	0	overcast	
Bellary	28.23	716.9	29.68	754.0	80.4	26.9	62	w.	7.0	3.1			10		w.	0	0	gloomy	
Belgaum	27.16	689.8	29.71	754.6	70.4	21.3	90	sw.	11.0	4.9			10		sw.	1.00	25.4	showery	
Lahore	28.82	731.9	29.53	750.2	92.3	33.5	50	e.	4.9	2.2			c			0	0	blue sky	
Roorkee	28.68	728.5	29.56	750.9	84.4	29.1	73	s.	3.3	1.5			5			1.76	44.7		
Agra	28.98	736.1	29.54	750.2	81.3	27.4	87	e.	4.6	2.1			10		e.	0.45	11.4	overcast	
Nagpur	28.50	723.8	29.53	750.0	79.5	26.4	89	sw.	6.4	2.9			10		w.	0.13	3.3	drizzling	
Jubbulpore	28.15	714.9	29.48	748.8	82.6	28.1	84	e.	2.8	1.2			8			0	0	overcast	
Lucknow	29.15	740.3	29.51	749.6	92.0	33.3	58	ene.	4.6	2.1			2		wsw.	0	0	lightning	
Allahabad	29.16	740.8	29.47	748.5	90.3	32.4	65	ene.	4.7	2.1			8			0	0	d. clouds	
Patna	29.37	745.9	29.55	750.5	88.4	31.3	70	e.	10.3	4.6			6		e.	0	0	d. clouds	
Hazaribagh	27.54	699.4	29.51	749.5	81.8	27.7	78	ese.	12.5	5.6			10		e.	0.24	6.1	drizzling	
Cuttack	29.43	747.4	29.51	749.5	85.0	29.4	79	s.	4.8	2.2			4			0.05	1.3	d. clouds	
Calcutta, Alipore	29.52	749.8	29.54	750.3	83.5	28.6	87	sse.	7.0	3.1			9		se.	0.89	22.6	gloomy	
Dhubri	29.49	749.0	29.60	752.0	83.6	28.7	86	calm	3.7	1.6			5			0	0	d. clouds	
Chittagong	29.57	751.2	29.66	753.4	83.9	28.8	80	w.	7.5	3.4			8			0	0	d. clouds	
Sibsagar	29.30	744.2	29.63	752.5	84.3	29.1	84	ne.	2.4	1.1			10		w.	0.70	17.8	d. clouds	
Jeypore	28.10	713.8	29.51	749.6	86.2	30.1	75	e.	7.2	3.2			9		e.	0.03	0.8	d. clouds	
Zanzibar, Africa	30.09	764.3			82.7	28.2	49	sse.	8.6	3.8			3		sse.	0	0	d. clouds	
Italian.																			
Udine	29.52	749.8	29.92	759.9	78.4	25.8	60	sw.	3.8	1.7			4			0.028	0.7		Prof. Giovanni Clodig.
Milan	29.39	746.5	29.89	759.1	77.5	25.3	47	ne.	3.1	1.4			9		ssw.	0	0		Prof. Schiaparelli.
Padua	29.78	756.5	29.89	759.2	81.0	27.2	44	sse.	3.8	1.7			2		sw.	0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.98	736.0	29.85	758.1	71.1	21.7	73	n.	3.1	1.4			9		n.	0	0		Prof. P. F. Denza.
Genoa	29.73	755.2	29.92	759.9	75.6	24.2	78	se.	9.4	4.2			6		se.	0	0		Prof. G. M. Garibaldi.
Mondovi	27.98	710.6	29.82	757.5	72.3	22.4	62	wnw.			4		5		sse.	0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
Italian.—Continued.																			
Pesaro	29.85	758.2	29.90	759.4	78.8	26.0	60	se.	6.9	3.1			0			0	0		Prof. Luigi Guidi.
Florence	29.65	753.2	29.90	759.4	85.5	29.7	43	s.			2		3			0	0		Prof. Costantino Pitter.
Leghorn	29.77	756.1	29.85	758.2	79.2	26.2	69	s.	3.1	1.4			3			0	0		Prof. P. Monte.
Rome	29.82	757.5	29.99	761.8	87.1	30.6	24	s.	14.3	6.4			0			0	0		Prof. P. S. Ferrari.
Lecce	29.78	756.3	30.02	762.4	86.5	30.3	31	sse.	7.4	3.3			0			0	0		Prof. C. de Giorgi.
Cosenza	29.13	739.9	29.98	761.4	88.9	31.6	73	ssw.	3.1	1.4			0			0	0		Prof. D. Conti.
Cagliari	29.68	753.8	29.87	758.6	86.2	30.1	47	se.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.79	756.7	30.03	762.7	83.7	28.7	40	ne.	4.9	2.2			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.96	760.9	30.00	762.0	85.3	29.6	40	s.	8.1	3.6			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.52	749.8	30.02	762.6	82.4	28.0	32	se.	2.5	1.1			0			0	0		Prof. T. Brioschi.
Stelvio	22.15	562.6			48.4	9.1	62	wsw.			8		10			0.075	1.9	misty	Prof. P. F. Denza.
Valdobbia	22.20	564.0			48.6	9.2	76	ne.			2		10			0	0	covered	Prof. P. F. Denza.
Japanese.																			
Aomori																			K. Ogawa.
Hakodate	30.07	763.8	30.08	764.0	62.0	16.7	84	e.	33.0	14.7			10			0	0	covered	
Hiroshima, I. M. Obs'y					74.0	23.3	72	sw.	11.5	5.1			10s;ck			0.497	12.6	covered	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.53	750.0	29.70	754.4	72.6	22.6	86	w.	2.2	1.0			10 n			0.248	6.3	light rain	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.52	749.9	29.72	754.9	70.1	21.2	82	sw.	18.6	8.3			10 s			0.760	19.3	overcast	S. Takehayashi.
Nemuro	30.28	769.1	30.34	770.6	57.0	13.9	93	sse.	3.0	1.3		10	0	nnw.		0	0	cloudy	
Niigata	29.81	757.2	29.85	758.2	68.8	20.4	69	se.	16.6	7.4			10 ck		s.	0.010	0.3	covered	M. Morita.
Nobiru	30.03	762.7	30.05	763.3	66.9	19.4	91	se.	24.3	10.8			10 n			0.500	12.7	stormy	H. Midzushina.
Osaka	29.68	753.9	29.70	754.4	73.9	23.3	89	wsw.	3.8	1.7			10 n			0.178	4.5	light rain	
Sapporo					61.2	16.2	56	s.	15.0	6.7			6			0	0	cloudy	
Tokei Obs'y, Yeddo	29.92	759.9	30.00	762.0	67.2	19.6	96	e.	12.1	5.4			10 s;n			2.048	52.0	light rain	The Staff.
Wakayama	29.62	752.3	29.67	753.6	77.5	25.3	73	ssw.	22.1	9.9		0	4		s.	0.134	3.4	fair	Y. Kuwamuea.
Mauritius.																			
Mauritius Observatory	30.00	762.0	30.19	766.8	70.5	21.4	80	s.	4.5	2.0			9 ks;n			0	0	cloudy	Oliver & Figon.
Mexican.																			
Guanajuato	23.72	602.6	29.95	760.6	57.7	14.3	92	wsw.				0	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.04	763.0	59.4	15.2	82	e.			1	2 c	0	sw.		0	0	fair	Prof. M. Leal.
Mazatlan	29.71	754.5	29.96	761.0	80.0	26.4	96	ssw.	0	0			10 n		ssw.	0	0	threatening	F. Quijano, C. E.
Mexico, Central Obs'y	23.13	587.5	30.16	766.1	54.1	12.3	80	calm	0	0		2 c	1 ks	sw.		0.158	4.0	clear	The Staff.
Morelia	24.29	617.0	30.36	771.2	60.3	15.7	58	ne.			4	1	2	n.	ne.	0	0	clear	M. Tena, M. D
Orizaba	26.07	662.2	30.05	763.2	61.0	16.1	81	n.	0.9	0.4		3	1	s.	n.	0	0	clear	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.98	609.1	29.90	759.4	63.0	17.2	75	calm			0	0	1 k		nne.	0	0	clear	M. V. de Leon, M. E
Puebla, Catholic Institute	23.46	595.8	30.25	768.3	52.2	11.2	89	calm	0	0		0	0			0.138	3.5	fine	Prof. P. Spina.
San Luis Potosi	24.19	614.5	30.16?	763.4?	67.2	19.6	61	e.				3	3	w.	e.	0	0	½ cloudy	G. Barroeta, M. D.
Zacatecas	22.55	572.7	30.08?	763.2?	61.8?	16.0?	67	e.	4.4	1.9		1 k	2 k	ne.	w.	0	0	clear	J. A. Bonilla, M. E.
Netherlands.																			
Flushing	29.50	749.2	29.50	749.2	66.9	19.4		ssw.			5					0.236	6.0		
Groningen	29.43	747.5	29.48	748.9	66.2	19.0		sw.			4					0.200	6.6		
Helder	29.45	747.9	29.45	747.9	61.9	16.6		sw.			5					0.059	1.5		
Hellevoetsluis	29.49	749.0	29.49	749.0	65.5	18.6	67	ssw.			4					0.315	8.0		
Utrecht	29.48	748.7	29.52	749.9	65.7	18.7	73	sw.			4		8			0.189	4.8	very cloudy	H. van der Brink.
Norwegian.																			
Bergen	29.25	742.9	29.31	744.5	67.3	19.6	55	sse.	13	6			5			blank	blank		
Brono	29.61	752.1	29.65	753.1	69.8	21.0	28	sse.	22	10			3			0	0		
Christiania	29.37	746.1	29.52	749.7	62.1	16.7	72	ene.	18	8			8			0.654	16.6		
Gjesvær	29.91	759.6	29.93	760.2	59.9	15.5		e.			6		0						
Lodingen	29.72	754.8	29.76	756.0	62.1	16.7	42	calm			0		0			0	0		
Portuguese.																			
Angra, Azores					70.9	21.6	87	nnw.	15.4	6.9			5			0	0		Dr. J. A. Sampaio.
Campo Major	28.90	734.0	29.87	758.8	68.2	20.1	81	sw.	15.0	6.7			9			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.00	761.9	30.08	764.1	76.1	24.5	67	w.	8.7	3.9			4			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.56	750.8	29.91	759.8	66.4	19.1	77	sw.	18.6	8.3			10			0.134	3.4		The Staff.
Ponta Delgada, Azores	29.97	761.2	30.04	763.0	72.0	22.2	82	w.	13.6	6.1			10	ne.		0	0		
Saint Paul de Loando	29.87	758.8	30.08	764.0	68.0	20.0	83	wsw.	1.3	0.6			2	e.		0	0		
Serra da Estrella	25.15	638.8	29.80	756.9	54.0	12.2	65	w.	12.5	5.6			10			0.551	14.0	foggy	
Russian.																			
Akmolinski	28.45	722.7	29.45	748.1	81.0	27.2	47	ssw.	13	6		0	8 kn			0.740	18.8		Major K. Lasarew.
Archangel	29.63	752.7	29.65	753.2	63.5	17.5	50	nne.	22	10		0	5 ks			0	0		Capt. Sselliwerstow.
Astrakhan	29.85	758.2	29.77	756.1	84.4	29.1	35	nw.	9	4		0	8 k			0	0		Capt. Wisganow.
Barnaul	29.29	743.9	29.76	755.9	75.0	23.9	49	ne.	4	2			2			0	0		Meteorological Obs'y.
Dorpat	29.46	748.2	29.69	754.1	66.0	18.9	48	nw.	4	2		0	8 k			0	0		Observatory.
Ekaterinburg	28.37	720.6	29.30	744.1	59.4	15.2	88	sse.	7	3		c	9 kn			0.071	1.8		Meteorological Obs'y.
Irkutsk	28.22	716.9	29.78	756.4	75.4	24.1	62	e.	2	1		0	8 s			0	0		
Kasan	29.08	738.5	29.34	745.1	58.1	14.5	81	w.	13	6			10			0.020	0.5		Observatory.
Kertch	29.80	757.0	29.82	757.5	60.4	26.9	43	s.	27	12		4 cs	0			0	0		Lagorio & Sastyrez.
Kieff	29.06	738.1	29.66	753.4	72.5	22.5	51	nw.	16	7		ck	6 ks			0.055	1.4		Observatory.
Lugan	29.48	748.7	29.67	753.6	82.2	27.9	38	sw.	9	4			7			0.020	0.5		Meteorological Obs'y
Moscow	29.08	738.7	29.54	750.3	61.7	16.5	50	n.	13	6			7 ks						Meteorological Obs'y.
Nikolaiev	29.74	755.5	29.82	757.3	85.5	29.7	37	sw.	4	2		0	4 kn			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.54	750.3	29.68	753.9	83.3	28.5	57	calm	0	0			9 n			0	0		Physical Observatory
St. Petersburg	29.67	753.7	29.69	754.1	57.4	14.1	53	ne	11	5			9 kn			0.181	4.6		Central Physical Obs'y
Semipalatinsk	29.06	738.1	29.67	753.5	83.8	28.8	46	ne.	9	4			8			0	0		Major Lasarew.
Tashkend, Laboratory	28.09	713.6	29.52	749.9	95.0	35.0	37	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.47	723.1	29.82	757.3	78.3	25.7	44	nw.	18	8			9 k			0.472	12.0		Physical Observatory
Vladivostock	29.84	757.8			60.4	15.8	92	calm	0	0		0	6 k						
Warsaw	29.34	745.1	29.74	755.3	73.9	23.3	43	nw.	7	3			10 ks						Astronomical Obs'y
Wilna	29.28	743.8	29.69	754.0	70.2	21.2	53	wnw.	11	5			7			0	0	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.63	752.5	29.91	759.6	64.6	18.1	90	w.	2	1			1			blank	blank		M. O. Marks.
Spanish.																			
Barcelona, Met. Obs'y	29.62	752.3	29.72	754.8	81.1	27.3	66	s.	4.3	1.9			0						Antonio Rave, Director.
Bilbao, Met. Obs'y	29.73	755.2	29.79	756.7	65.1	18.4	86	nw.	2.0	0.9			10			0.059	1.5	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	26.90	683.3	29.85	758.3	53.8	12.1	88	sw.	11.2	5.0			10					raining	Domingo Martin.
Madrid, Royal Obs'y	27.64	702.0	29.78	756.4	72.3	22.4	56	sw.	26.6	11.9			10			0	0	covered	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director
Santiago, Met. Obs'y	28.80	731.4	29.68	753.8	58.5	14.7	87	ssw.	14.3	6.4			10			0.185	4.7	light rain	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.																			Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.2	29.91	759.7	84.2	29.0	75	wsw.	2.2	1.0		3 c	5 ck		e.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.94	760.6	30.04	763.0	73.0	22.8	55	sw.	5.2	2.3			10		sw.	0.013	0.3		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.06	763.5	30.15	765.8	84.9	29.4	70	calm	0	0		4 cs	0	se.		0.472	12.0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.79	756.7	29.92	760.0	80.3	26.8	87	nw.	6.5	2.9		0	2 k		n.	0.06	1.5	clear	José L. Yrastorza.
Swedish.																			
Haparanda	29.86	758.4	29.90	759.4	63.0	17.2	46	s.			2		2			0	0		
Umea	29.82	757.5	29.87	758.8	61.2	16.2	49	e.			4		1			0	0		
Hernosand	29.76	755.8	29.81	757.1	57.2	14.0	71	ne.			4		3			0	0		
Stockholm	29.46	748.3	29.64	752.8	56.8	13.8	92	e.			2		10			0.047	1.2		
Wisby	29.59	751.5	29.65	753.0	59.7	15.4	89	w.			2		3			0.181	4.6		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Sub-series.																			
Upsala	29.55	750.6	29.64	752.8	58.1	14.5	86	ene.	7.8	3.5			10		e.	0.004	0.1		S. G. Fineman.
Swiss.																			
Geneva	28.33	719.5	29.69	754.2	74.7	23.7	54	ssw.			3					0.319	8.1	covered	The Observatory
Scottish.																			
Monach Lt			29.17	740.9	62	16.7	94	s.			2	3	0	s.		0.3	8.	d. clouds	J. Youngclause.
North Unst			29.27	743.4				se.			4		10					foggy	
Turkish.																			
Constantinople			29.98	761.6	81.7	27.6	27	ne.	3	1.5			0			0	0		The Observatory.
Valona			30.15	765.7	85.3	29.6		sw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.86	757.0	83.5	28.6	57	w.			2	0	0			0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	30.03	762.7	30.11	764.8	66	18.9	73	sw.	3	1.3		0	0			inap.	inap.	clear	J. O. Barnes.
Alpena, Michigan	29.26	743.2	29.90	759.4	63	17.2	90	s.	12	5.4		10 cs	0	sw.		0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.07	636.8	29.81	757.2	63	17.2	47	se.	5	2.2			10 s		calm	0	0	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	26.94	684.3	29.67	753.6	59	15.0	67	sw.	9	4.0		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.97	735.8	30.12	765.0	66.0	18.9	63	e.	7	3.1		10 k	0			0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.11	764.8	30.12	765.0	68.5	20.3	87	w.	4	1.8		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.96	761.0	30.16	766.1	66.0	18.9	78	calm	0	0		6 c	0	nw.		0	0	fair	John Healy.
Baltimore, Maryland	30.10	764.5	30.14	765.5	70	21.1	71	nw.	1	0.4		0	hz.			0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.12	765.0	30.14	765.5	69.8	21.0	79	w.	7	3.1		0	0			0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.26	717.8	29.80	756.9	58	14.4	93	calm	0	0			fg.			0.11	2.8	dense fog	A. Pritchard.
Benton, Fort, Montana	26.96	684.8	29.67	753.6	61	16.1	72	calm	0	0		0	1 k			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	30.04	763.0	30.06	763.5	45.0	7.2		sw.	7	3.1			fg			0.02	0.5	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.08	713.2	29.80	756.9	62	16.7	78	ne.	3	1.3		0	0			0.08	2.0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.07	763.8	30.10	764.5	65.5	18.6	78	w.	2	0.9		2 c	0	w.		0	0	clear	J. T. Elker.
Boise City, Idaho	27.15	689.6	29.87	758.7	56	13.3	64	w.	6	2.7		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.93	760.2	30.08	764.0	64.0	17.8	70	w.	3	1.3		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.85	758.2	29.89	759.2	79.2	26.2	88	s.	5	2.2		2 cs	0	calm		0	0	clear	M. McCarty.
Buffalo, New York	29.32	744.7	30.05	763.3	65.2	18.4	63	se.	2	0.9		5 cs	0	w.		0.03	0.8	fair	Wm. Finn.
Buford, Fort, Dakota	27.90	708.6	29.84	757.9	60	15.6	78	w.	13	5.8		5 k	0	w.		0.05	1.3	fair	A. H. Bell.
Burlington, Vermont	29.76	755.9	30.04	763.0	65.7	18.7	71	s.	11	4.9		0	0			0.13	3.3	clear	G. C. Schaeffer.
Cairo, Illinois	29.63	752.6	30.02	762.5	67.6	19.8	76	s.	8	3.6			10 s		s.	0	0	threatening	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.15	689.6	29.74	755.4	73	22.8	87	se.			1	2 cs	3 ks	sw.	sw.	0.06	1.5	fair	J. T. Fitzgerald.
Cape Henry, Virginia	30.14	765.5	30.16	766.1	71	21.7	71	nw.	4	1.8		0	hz.			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.11	764.8	30.14	765.5	67.0	19.4	90	w.	4	1.8		0	0			0	0	clear	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.06	763.5	30.08	764.0	77	25.0	82	ne.	4	1.8		5 c	0			0	0	fair	F. W. Mixer.
Champaign, Illinois	29.10	739.1	29.89	759.2	64.0	17.8	84	s.	9	4.0			10 s		s.	0.02	0.5	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.06	763.5	30.10	764.5	74	23.3	68	n.	5	2.2		3 c	0	ne.		0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.27	743.4	30.10	764.5	68.0	20.0	61	ne.	3	1.3		4 c	hz.	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.30	744.2	30.10	764.5	63.0	17.2	93	calm	0	0		10 cs;ck	fg.	w.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.08	611.6	29.77	756.1	58.2	14.6	83	sw.	3	1.3		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.17	740.9	29.86	758.4	64.4	18.0	80	s.	12	5.4			10 k		sw.	inap.	inap.	cloudy	J. Mitchell.
Chincoteague, Virginia	30.12	765.0	30.14	765.5	69	20.6	84	nw.	2	0.9		0	0			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.40	746.7	30.04	763.0	66	18.9	75	e.	3	1.3		6 cs	3 s	s.	s.	0	0	cloudy	J. F. Harrold.
Cleveland, Ohio	29.34	745.2	30.06	763.5	63.7	17.6	72	s.	6	2.7		3 c	0	w.		0	0	clear	J. B. Newlin.
Coleman City, Texas	28.08	713.2	29.84	757.9	74	23.3	73	s.	6	2.7		10 cs	0			0	0	cloudy	L. Dorman.
Columbus, Ohio	29.20	741.7	30.03	762.7	62	16.7	78	s.	4	1.8		9 k	0	w.		0	0	cloudy	D. Cuthbertson.
Concho, Texas	27.97	710.4	29.85	758.2	76	24.4	82	s.	14	6.3		0	7 s		s.	0	0	fair	W. W. McConihe.
Custer, Fort, Montana	26.64	676.6	29.66	753.4	61	16.1	84	sw.	3	1.3		4 k	0	calm		0.20	5.1	fair	V. Verge.
Davenport, Iowa	29.17	740.9	29.80	756.9	62	16.7	93	s.	8	3.6			10 n		s.	0.46	11.7	light rain	R. R. Martin.
Davis, Fort, Texas	25.11	637.8	29.75	755.6	76	24.4	60	s.	2	0.9		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.24	717.3	29.95	760.7	50.7	10.4	60	w.	12	5.4		0	7 s		sw.	0	0	fair	H. Clifford.
Deadwood, Dakota	25.34	643.6	29.76	755.9	59.0	15.0	78	s.	1	0.4		2 cs	0	w.		inap.	inap.	clear	G. W. Scott.
Decatur, Texas					77	25.0	69	se.	14	6.3			10 s		sw.	inap.	inap.	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.12	765.0	30.14	765.5	66	18.9	90	sw.	4	1.8		hz.	0			0	0	clear	A. Schneider.
Denison, Texas	29.05	737.9	29.83	757.7	74.0	23.3	82	se.	15	6.7			10 s			inap.	inap.	cloudy	J. McGlone.
Denver, Colorado	24.73	628.1	29.74	755.4	61.4	16.3	72	s.	8	3.6		0	0			0.02	0.5	clear	F. M. Neal.
Des Moines, Iowa	28.87	733.3	29.75	755.6	65	18.3	90	w.	6	2.7			10 s		w.	0.41	10.4	cloudy	F. W. Conrad.
Detroit, Michigan	29.31	744.5	30.00	762.0	66.0	18.9	78	s.	5	2.2		1 ck	0	w.		0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.28	692.9	29.78	756.4	67.0	19.4	90	n.	7	3.1		4 cs	0			0	0	fair	W. M. Mattingly.
Dubuque, Iowa	29.04	737.6	29.74	755.4	60.7	15.9	93	s.	8	3.6			10 n			0.42	10.7	light rain	J. Harvey Smith.
Duluth, Minnesota	28.97	735.8	29.69	754.1	57	13.9	93	n.	18	8.0			10 s		ne.	1.86	47.2	cloudy	N. B. Conger.
Eagle Pass, Texas	29.08	738.6	29.87	758.7	78.1	25.6	74	se.	4	1.8		3 cs	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.16	639.1	29.71	754.6	55	12.8	55	s.	12	5.4		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.96	761.0	30.02	762.5	54.0	12.2	93	calm	0	0			fg.			0.15	3.8	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.10	688.3	29.74	755.4	68	20.0	70	nw.	4	1.8		9 k	0	nw.		0.30	7.6	cloudy	W. J. Cundall.
El Paso, Texas	26.19	665.2	29.79	756.7	70	21.1	58	nw.	8	3.6		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.34	745.2	30.04	763.0	65	18.3	73	s.	6	2.7		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.11	739.4	29.75	755.6	61	16.1	93	s.	14	6.3			10 n		s.	0.47	11.9	light rain	C. Dill.
Fredericksburg, Texas	28.17	715.5	29.87	758.7	73	22.8	84	sw.	5	2.2		7 cs	0			0	0	fair	H. S. Miles.
Galveston, Texas	29.91	759.7	29.96	761.0	81	27.2	74	s.	8	3.6		7 cs	hz.			0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.23	742.4	29.88	758.9	65.5	18.6	70	se.	18	8.0			10 s		s.	0	0	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.22	640.6	29.79	756.7	69.4	20.8	63	e.	4	1.8		6 cs	2 s			0	0	cloudy	Robert O. Lord.
Hatteras, North Carolina	30.10	764.5	30.12	765.0	74.0	23.3	71	ne.	14	6.3		6 c	0	w.		0	0	fair	R. M. Crawford.
Helena, Montana	25.59	650.0	29.65	753.1	56	13.3	64	sw.	5	2.2		4 k	0	sw.		inap.	inap.	fair	S. Wheaton.
Henrietta, Texas	28.84	732.5	29.82	757.4	81.0	27.2	58	s.	20	8.9			10 s			0	0	cloudy	J. W. Byram.
Huron, Dakota	28.48	723.4	29.80	756.9	57.7	14.3	86	nw.	5	2.2		0	0			inap.	inap.	clear	S. W. Glenn.
Indianapolis, Indiana	29.20	741.7	29.97	761.2	66.5	19.2	77	se.	5	2.2		8 c;cs	0	w;sw		inap	inap.	cloudy	O. Schutze
Indianola, Texas	29.91	759.7	29.94	760.5	80.7	27.1	85	s.	11	4.9		3 cs	2 k	se.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.70	729.0	29.82	757.4	79	26.1	69	s.	8	3.6			10 s		s.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.04	763.0	30.08	764.0	81	27.2	58	ne.	1	0.4		5 cs	0	w.		inap.	inap.	fair	J. W. Smith.
Keogh, Fort, Montana	27.27	692.6	29.68	753.9	68	20.0	66	se.	2	0.9		0	0			0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.16	740.7	29.79	756.7	65.5	18.6	80	s.	12	5.4		10 k	0	sw.		0.10	2.5	cloudy	F. Z. Gosewisch
Key West, Florida	30.03	762.7	30.05	763.3	86.0	30.0	68	s.	3	1.3		1 c	3 k		s.	0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.14	765.5	30.16	766.1	73.0	22.8	71	e.	6	2.7		hz.	0			0	0	dense haze	E. A. Beals.
Knoxville, Tennessee	29.11	739.4	30.11	764.8	60	15.6	92	ne.	3	1.3		9 c	0			0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	28.89	733.8	29.64	752.8	65	18.3	84	s.	8	3.6			10 n			0.66	16.8	light rain	S. C. Emery.
La Mesilla, New Mexico	26.06	661.9	29.80	756.9	66.8	19.3	81	calm	0	0		6 c	2 s			0.10	2.5	cloudy	N. D. Lane.
Leavenworth, Kansas	28.96	735.6	29.82	757.4	65	18.3	84	s.	3	1.3		0	0			0.05	1.3	clear	A. W. Browne.
Lewiston, Idaho	29.08	738.6	29.89	759.2	62.2	16.8	42	w.	16	7.2			10 s		sw.	0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.66	753.4	29.97	761.2	67	19.4	90	se.	4	1.8			10 s			0.23	5.8	cloudy	W. U. Simons.
Los Angeles, California	29.56	750.8	29.95	760.7	59.1	15.1	87	sw.	3	1.3			10 s			0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.45	748.0	30.00	762.0	68	20.0	73	s.	3	1.3			10 s;sk			0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.47	748.5	30.14	765.5	66.0	18.9	68	ne.	1	0.4		4 c;cs	0			inap.	inap.	fair	W. R. Bushby.
Macon, Fort, North Carolina	30.10	764.5	30.11	764.8	73	22.8	82	ne.	6	2.7		0	3 ks		ne.	0	0	clear	F. P. Chaffee.
Madison, Wisconsin	28.78	731.0	29.76	755.9	61	16.1	93	s.	13	5.8			10 n		calm	0.18	4.6	light rain	C. A. Shaw.
Maginnis, Fort, Montana																			H. W. Dodge.
McKavett, Fort, Texas	27.68	703.1	29.88	758.9	75	23.9	76	s.	4	1.8		5 cs	0			0	0	fair	J. E. Thatcher.
Marquette, Michigan	29.03	737.3	29.74	755.4	60	15.6	87	s.	4	1.8			10 s		s.	0.22	5.6	cloudy	J. Gilligan.
Memphis, Tennessee	29.67	753.6	30.00	762.0	71	21.7	71	se.	4	1.8			10 s		se.	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.08	738.6	29.81	757.2	64	17.8	84	s.	13	5.8			10 ks		s.	0.01	0.3	threatening	W. Line.

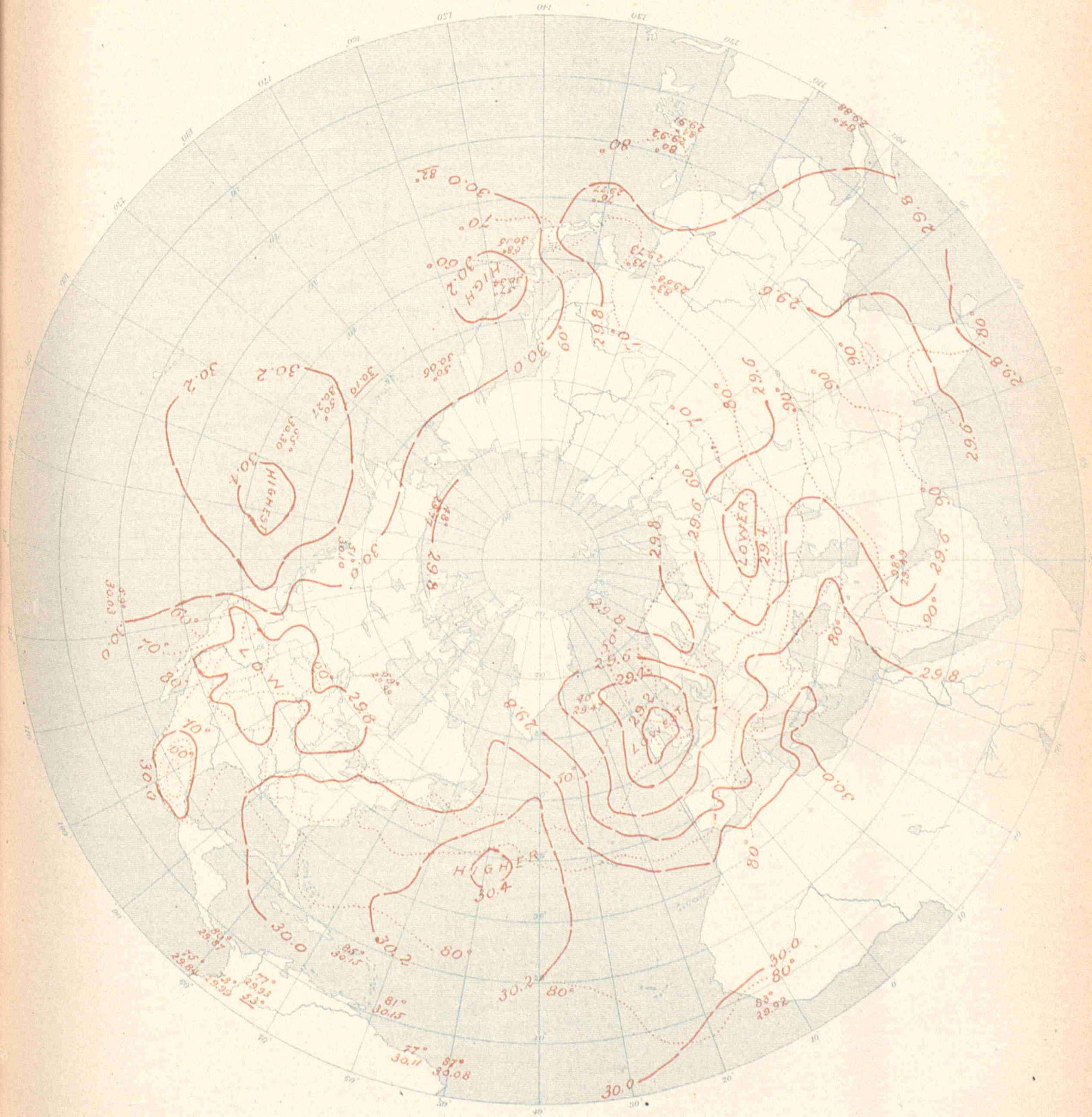
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.53	673.8	29.72	754.9	60	15.6	72	se.	1	0.4	.....	8 k	0	e.	.....	0	0	cloudy	J. H. Jones.
Mobile, Alabama	30.04	763.0	30.08	764.0	69	20.6	78	nw.	4	1.8	.....	8 cs	0	sw.	.....	0	0	cloudy	C. A. Read.
Montgomery, Alabama	29.84	757.9	30.06	763.5	71.0	21.6	66	e.	1	0.4	.....	3 c	5 k	.....	s.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.79	731.3	29.75	755.6	55.2	12.9	93	n.	6	2.7	.....	0	0	.....	.....	0.38	9.7	clear	H. Bessant.
Morgantown, W. Virginia	29.14	740.1	30.14	765.5	59.5	15.3	86	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.95	608.3	30.02	762.5	42.0	5.6	92	nw.	33	14.8	.....	0	0	.....	.....	0.65	16.5	clear	J. G. Lipsley
Nashville, Tennessee	29.52	749.8	30.04	763.0	67.5	19.7	76	e.	1	0.4	.....	.....	10 ks	.....	w.	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.00	762.0	30.11	764.8	64	17.8	78	nw.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.08	764.0	30.13	765.3	65	18.3	73	calm	0	0	.....	1 c	0	sw.	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.03	762.7	78.0	25.0	69	e.	2	0.9	.....	2 c	sk.	.....	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	30.05	763.3	30.10	764.5	66.7	19.3	77	sw.	2	0.9	.....	1 c	0	s.	.....	0	0	clear	W. McGillivray.
New York, New York	29.96	761.0	30.13	765.3	70	21.1	70	nw.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.12	765.0	30.14	765.5	74	23.3	71	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	H. L. Kemp.
North Platte, Nebraska	27.02	686.3	29.82	757.4	65.6	18.7	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.03	762.7	30.07	763.8	52.0	11.1	72	s.	7	3.1	.....	.....	10 s	.....	w.	0	0	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.75	755.6	29.77	756.1	48.0	8.9	85	s.	5	2.2	.....	1 k	1 s	w.	.....	0	0	clear	P. H. Ray.
Omaha, Nebraska	28.66	728.0	29.79	756.7	68.8	20.4	87	nw.	10	4.5	.....	0	0	.....	.....	0.07	1.8	clear	A. Pollak.
Oswego, New York	29.74	755.4	30.06	763.5	63.0	17.2	78	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.43	747.5	29.97	761.2	75.0	23.9	88	s.	10	4.5	.....	.....	10 ks	.....	sw.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.02	762.5	30.06	763.5	71.4	21.9	67	w.	4	1.8	.....	7 cs	0	nw.	.....	0	0	fair	M. McGauran.
Philadelphia, Pa	30.04	763.0	30.14	765.5	69	20.6	70	w.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.02	457.7	29.80	756.9	35	1.7	85	ne.	6	2.7	.....	0	0	.....	.....	0.01	0.3	clear	L. M. Dey.
Ploche, Nevada	24.02	610.1	29.75	755.6	63.5	17.5	60	s.	6	2.7	.....	0	0	.....	.....	0.04	1.0	clear	O. N. Kitchel.
Pittsburg, Pennsylvania	29.30	744.2	30.09	764.3	60.0	15.6	87	e.	2	0.9	.....	5 c	0	w.	.....	0	0	fair	J. H. Bryce.
Poplar River, Montana	27.67	702.8	.....	.....	.....	.....	.....	ne.	.....	.....	1	0	0	.....	.....	0.07	1.8	clear	W. D. Maxwell.
Port Eads, Louisiana	30.04	763.0	30.05	763.3	77.0	25.0	79	se.	6	2.7	.....	hz.	0	.....	.....	0	0	clear	M. Hermann.
Port Huron, Michigan	29.31	744.5	29.97	761.2	64.7	18.2	83	s.	7	3.1	.....	3 c	0	s.	.....	0	0	clear	W. O. Bailey.
Portland, Maine	30.00	762.0	30.05	763.3	61	17.8	78	w.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	W. W. Eichelberger.
Portland, Oregon	30.09	764.3	30.16	766.1	53.0	11.7	72	s.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	M. L. Hearne.
Prescott, Arizona	24.80	629.9	29.79	756.7	63	17.2	75	s.	3	1.3	.....	0	0	.....	.....	0.73	18.5	clear	J. Mc N. Wright.
Provincetown, Mass	30.05	763.3	30.08	764.0	66.0	18.9	73	nw.	5	2.2	.....	0	2 s	.....	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.04	763.0	30.05	763.3	79.5	26.4	80	ne.	6	2.7	.....	0	1 k	.....	calm	0.18	4.6	clear	W. J. Evans.
Red Bluff, California	29.46	748.3	29.82	757.4	69.2	20.7	35	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.67	753.6	29.90	759.4	79	26.1	77	se.	6	2.7	.....	2 c	0	calm	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.40	746.7	30.05	763.3	62	16.7	72	sw.	12	5.4	.....	0	hz.	.....	.....	0	0	clear	E. W. McGann.
Roseburg, Oregon	29.65	753.1	30.19	766.8	48.5	9.2	86	calm	0	0	.....	.....	10 ks	.....	n.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.71	754.6	29.78	756.4	63.3	17.4	68	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.34	745.2	29.92	760.0	62.9	17.2	93	s.	14	6.3	.....	.....	10 s	.....	w.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	28.79	731.3	29.63	752.6	62	16.7	87	nw.	12	5.4	.....	.....	10 s	.....	nw.	0.57	14.5	cloudy	P. F. Lyons
St. Vincent, Minnesota	28.94	735.1	29.78	756.4	54	12.2	93	w.	5	2.2	.....	0	0	.....	.....	c	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.51	647.9	29.69	754.1	73	22.8	44	se.	4	1.8	.....	4 k	0	w.	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.23	742.4	29.91	759.7	78.0	25.6	77	se.	4	1.8	.....	6 cs	0	.....	.....	0	0	fair	T. J. Kenan.
San Diego, California	29.85	758.2	29.92	760.0	63.6	17.6	91	s.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.36	745.7	30.02	762.5	65.9	18.8	73	s.	13	5.8	.....	2 c	0	sw.	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.10	764.5	30.13	765.3	66.0	18.9	84	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	B. A. Blundon.
San Francisco, California	29.80	756.9	29.88	758.9	54.5	12.5	77	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.29	591.6	29.79	756.7	59	15.0	72	calm	0	0	.....	6 k	4 s	sw.	.....	0.01	0.3	cloudy	H. U. Jones.
Savannah, Georgia	30.02	762.5	30.11	764.8	73	22.8	79	n.	4	1.8	.....	6 c	0	.....	.....	0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.17	664.7	29.68	753.9	55	12.8	74	w.	3	1.3	.....	7 k	0	sw.	.....	0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.75	755.6	29.98	761.5	71	21.7	82	se.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.56	725.4	29.76	755.9	78.5	25.8	63	s.	20	8.9	.....	.....	10 s	.....	s.	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.32	617.7	29.78	756.4	61	16.1	46	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	30.04	763.0	30.10	764.5	51	10.6	86	se.	3	1.3	.....	.....	10 n	.....	se.	0.03	0.8	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.42	747.3	29.88	758.9	68.0	20.0	90	e.	10	4.5	.....	.....	10 s	.....	s.	0.20	5.1	cloudy	J. B. Campbell.
Smithville, North Carolina	30.08	764.0	30.11	764.8	71	21.7	66	n.	4	1.8	.....	1 cs	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.88	708.1	29.86	758.4	56	13.3	53	sw.	11	4.9	.....	9 k	0	sw.	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.22	742.2	29.88	758.9	64	17.8	87	s.	9	4.0	.....	.....	10 s	.....	w.	0.56	14.2	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.99	761.7	30.12	765.0	65.6	18.7	84	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo	28.46	722.9	29.85	758.2	64.5	18.1	87	s.	11	4.9	.....	0	8 ks	.....	s.	0.25	6.3	cloudy	J. B. Marbury.
Starkville, Miss	29.59	751.6	30.06	763.5	75	23.9	69	s.	8	3.6	.....	.....	10 s	.....	s.	0	0	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.04	712.2	29.82	757.4	60	15.6	72	calm	0	0	.....	0	3 ks	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	26.88	682.7	29.82	757.4	73.6	23.1	44	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass	30.02	762.5	30.07	763.8	63.0	17.2	84	w.	1	0.4	.....	2 c	0	w.	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.31	744.5	29.98	761.5	69	20.6	61	w.	6	2.7	.....	4 c	0	w.	.....	0	0	fair	A. Buell.
Tucson, Arizona	27.48	698.0	29.80	756.9	78	25.6	72	se.	2	0.9	.....	3 c	0	.....	.....	0.02	0.5	clear	J. L. Whiteside.
Umatilla, Oregon	29.68	753.9	30.04	763.0	53	11.7	48	w.	24	10.7	.....	1 c	0	se.	.....	0	0	clear	J. Daly.
Uvalde, Texas	28.92	734.6	29.86	758.4	76	24.4	85	se.	1	0.4	.....	10 c	0	e.	.....	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	68.2	20.1	84	w.	.....	.....	1	2 k	3 s	sw.	w.	0.15	3.8	fair	D. Brooks.
Vicksburg, Mississippi	29.79	756.7	30.03	762.7	69	20.6	70	se.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	H. P. Brisbane.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.41	620.0	29.74	755.4	50.7	10.4	78	nw.	2	0.9	.....	2 c; k	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.04	763.0	30.15	765.8	65.7	18.7	79	calm	0	0	.....	0	0	.....	.....	0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.02	660.9	29.78	756.4	63.9	17.7	84	sw.	2	0.9	.....	0	0	.....	.....	0.01	0.3	clear	F. W. Brandenburg.
Williamsport, Pa	29.54	750.3	30.12	765.0	56	13.3	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	B. F. Hough.
Wilmington, N. Carolina	30.07	763.8	30.12	765.0	72	22.2	66	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.52	648.2	29.74	755.4	52	11.1	43	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.56	725.4	29.83	757.7	65	18.3	73	calm	0	0	.....	0	0	.....	.....	0.01	0.3	clear	J. H. Atfield.
Yuma, Arizona	29.58	751.3	29.72	754.9	82.0	27.8	54	calm	0	0	.....	5 c	0	.....	.....	0	0	fair	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	53.0	11.7	71	s.	16	7.2	.....	2 cs	4 ks	.....	w.	0.12	3.0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W.I	30.14	765.5	30.15	765.8	81	27.2	95	e.	.....	.....	.....	10 k	10 ks	.....	.....	0.60	15.2	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.96	761.0	29.99	761.7	78	25.6	90	calm	0	0	.....	.....	10 ks	.....	s.	0.05	1.3	threatening	J. I. Plume.
Kingston, Jamaica, W. I.	30.06	763.5	30.07	763.8	81.3	27.4	69	calm	0	0	.....	8 ck	0	nw.	.....	0	0	fair	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	72	22.2	.....	e.	.....	.....	1	3 ks	0	se.	.....	0.20	5.1	.....	S. M. Pike.
Navassa	29.95	760.7	30.03	762.7	78	25.6	84	e.	12	5.4	.....	9 n	8 s	e.	se.	1.01	25.7	cloudy	F. M. Everett.
Paramaribo, S. A.	30.11	764.8	30.11	764.8	77	25.0	86	se.	.....	.....	2	3 c	4 s	e.	.....	0.230	5.8	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.37	746.0	29.93	760.2	77	25.0	84	s.	.....	.....	1	5 c	0	calm	.....	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	98	ne.	.....	.....	2	3 ck	0	ne.	.....	0.02	0.5	fair	Earl Flint.
Santiago de Cubit, W. I.	30.03	762.7	30.05	763.3	83	28.3	67	calm	0	0	.....	2 c	0	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A.	29.93	760.2	29.99	761.7	59.0	15.0	82	w.	13	5.8	.....	1 c	2 s	nw.	w.	0	0	fair	Fortesque & Wood

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S Alert, S. 25° 58′, E. 7° 06′	30.27	768.8	63	17.2	92	sw.			2-3		9							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.88	758.9	78	25.6	76	nw.			4		1					3	nw.	blue sky.
H. M. S. Amethyst, Montevideo, Uruguay	29.97	761.2	52	11.1	86	nnw.			4		7	sw						d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	30.01	762.2	70	21.1		n.			2									blue sky.
H. M. S. Bacchante, N. 39° 14′, E. 2° 50′	29.84	757.9	77	25.0	90	sw.			4		2	sw.						misty
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.00	762.0	59	15.0		w.			3		10							raining.
H. M. S. Champion, N. 23° 40′, E. 155° 00′			82	27.8	100	ene.			3		4					3	e.	d. clouds.
H. M. S. Comus, N. 41° 42′, E. 146° 00′	30.26	768.6	59	15.0	70	e.			3-4		8					1	e.	d. clouds.
H. M. S. Diamond, S. 4° 07′, E. 152° 26′	29.88	758.9	81	27.2	87	calm			0		9							d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.14	765.5	80	26.7		e.			3		4	e.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.16	766.1	77.5	25.3	93	sse.			2-3		5	sse.						d. clouds.
H. M. S. Dwarf, S. 34° 36′, W. 58° 19′	29.95	760.7	55.5	13.1	87	nnw.			3-4		6					3	nnw.	d. clouds.
H M S. Eclipse, S 14° 50′, E. 40° 46′	30.14	765.5	79	26.1		s.			2-3		3					2	ese.	d. clouds.
H. M. S. Emerald, S. 17° 50′, W. 17° 15′	30.30	769.6	70	21.1	90	ene.			1-2		7	ene.				1	ese.	d clouds.
H. M. S. Espiegle, S. 16° 06′, E. 168° 06′	30.02	762.5	73	22.8	76	se.			1-4		2	e.				1	s.	squally.
H. M. S. Fawn, S. 25° 59′ E. 32° 48′	30.10	764.5	73	22.8	69	ne.			2-3		1							blue sky.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.02	762.5	58.5	14.7	87	calm			0		10							overcast.
H. M. S. Garnet, S. 21° 30′, W. 18° 40′	30.33	770.4	72	22.2	80	nne.			3		3					2	sw.	blue sky.
H. M. S. Griffon, N. 50° 53 W. 55° 42′	29.95	760.7	55	12.8	68	calm			0		10							raining.
H. M. S. Iris, Port Said, Egypt	29.95	760.7	78	25.6	86	w.			3-5		1	wnw.				1	wnw	blue sky.
H. M. S. Iron Duke, N. 39° 39′, E. 142° 14′	30.12	765.0	62	16.7	94	e.			3-4		9	e.				2	ene.	d. clouds.
H. M. S. Kingfisher, N. 35° 25′, W. 121° 00′	29.97	761.2	57	13.9		nnw.			3-4		4					6	nw.	d. clouds
H. M. S. Lark, S. 1° 16′, E. 161° 35′	29.90	761.0	79.3	26.3	94	se.			1		3					1	se.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.00	762.0	53.5	11.9		ne.			1		10							d. clouds.
H. M. S. Magpie, N. 33° 02′, E. 133° 54′	29.68	753.9	76.4	24.7	82	sw.			3-4		1	sw.				6	sw.	blue sky.
H. M. S. Minotaur, Malta, Mediterranean	30.07	763.8	79	26.1	78	nne.			1		0							blue sky.
H. M. S. Nelson, S. 36° 50′ E. 174° 49′	29.82	757.4	54	12.2	73	calm			0		4							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	30.00	762.0	57	13.9	93	calm			0		8	w.						d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.88	758.9	83.5	28.6	83	ssw.			1		1							blue sky.
H. M. S. Rambler, James Bay, Saint Helena Is'd	30.22	767.6	68	20.0	90	se.			2		5	se.						d. clouds.
H M S. Rocket, Vancouver Island, B. C.	29.96	761.0	51	10.6	93	wsw.			3		8							squally.
H M. S. Sappho, S. 23° 30′ W. 138° 30′	30.14	765.5	72.5	22.5		ene.			3		10	s.				4	e.	d. clouds.
H. M. S. Swiftsure, Rio de Janeiro, Brazil	30.45	773.4	71.5	21.9	85	wnw.			1		2							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.01	762.2	50.5	10.3	88	nnw.			3		9	n.						misty.
H. M. S. Tamar, N. 37° 15′, E. 7° 47′	29.87	758.7	83.5	28.6	71	e.			2		0					1	e.	blue sky.
H. M. S. Tenedos, N. 47° 35′ W. 59° 07′	29.99	761.7	53.5	11.9	96	ese.			1		10							misty.
H. M. S. Thetis, S. 7° 02′ W. 81° 20′	30.01	762.2	63	17.2	88	se.			3		8					2	se.	d. clouds.
H. M. S. Triumph, Talcahuano, Chili	30.09	764.3	55	12.8	93	sw.			1-2		7	sw.						showery.
H. M. S. Woodlark, Off Bassorah, Asiatic Turkey	29.39	746.5	97.5	36.4	51	nw.			4-5		0							squally.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.15	765.9	81.0	27.2	83	ne.			2		3		ne.			2	ne.	d. clouds.
Tamega, Macao, China	29.84	757.8	85.1	29.5	78	sw.			3		4			3 h'r	3 h'r			d. clouds.
SWEDISH NAVAL.																		
Saga, N. 63° 35′, E. 3° 55′	29.39	746.5	57.2	14.0	92	e.			1		8							overcast.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.05	763.3	71	21.7	75	nw.	5	2.2			8		nw.	0	0			fair.
Navy Yard, Portsmouth, N. H	30.09	764.3	64	17.8	73	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.86	758.4	68.5	20.3	97	ene.			5		10		se.	0.61	15.5			light rain.
Adams, Mare Island, Cal	29.85	758.2	60	15.6	88	ssw.			2		0			0	0	sm'h		clear.
Alaska, Callao, Peru	29.96	761.0	59	15.0	88	calm			0		10			0	0	sm'h		cloudy.
Alert, N. 46° 40′, W. 167° 00′*	30.12	765.0	50	10.0	93	wsw.			4		8	wnw.				mod.	wsw.	cloudy.
Alliance, Boston, Mass†*	30.06	763.5	65	18.3	73	w.			1		2			0	0			clear.
Ashuelot, Yokohama, Japan*	29.92	760.0	70	21.1	95	ene.			3		10		e.					rainy.
Brooklyn, Rio de Janeiro, Brazil	30.42	772.7	67	19.4	94	calm			0		2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.10	764.5	67	19.4	84	calm	0	0			0			0	0			hazy.
Constellation, N. 38° 58′, W. 72° 58′*	30.13	765.3	69	20.6	85	nnw.			2		5		calm			sm'h		fair.
Enterprise, New York, N. Y*	30.09	764.3	67	19.4	79	ne.			1		2		ne.					clear.
Essex, Tamar Bay, Patagonia	29.07	738.4	43	6.1	75	wsw.			4		5		sw.			sm'h	wsw.	clear.
Franklin, Norfolk, Va	30.14	765.5	70	21.1	95	sse.	1	0.4			0			0	0			clear.
Galena, Alexandria, Egypt	29.89	759.2	79	26.1	86	nw.			4		2		nw.			sm'h		clear.
Independence, Mare Island, Cal	29.88	758.9	61	16.1	66	sw.			3		0			0	0			clear.
Iroquois, San Francisco, Cal	29.96	761.0	59	15.0	70	sw.			1		0			0	0			clear.
Kearsage, Norfolk, Va	30.15	765.8	69	20.6	100	calm			0		0							clear.
Lackawanna, Callao, Peru*	30.03	762.7	61	16.1	82	calm			0		10							cloudy.
Lancaster, Alexandria, Eyypt*	29.85	758.2	79	26.1	91	nw.			5		2		calm	0	0	sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	29.97	761.2	52	11.1	100	nnw.			4		8		calm			sm'h		fair.
Michigan, Detroit, Michigan	29.95	760.7	69	20.6	80	sw.			3		2		sw.					fair.
Minnesota, Newport, R. I	30.14	765.5	63	17.2	83	calm	0	0			0							clear.
Monocacy, Chefoo, China	29.73	755.1	73	22.8	85	ese.			2		10		se.			sm'h		cloudy.
New Hampshire, Newport, R. I	30.11	764.8	65	18.3	84	calm			0		2					sm'h		fair.
Nipsic, Zante, Greece*	29.98	761.5	82	27.8	49	nnw.			3		2					sm'h		clear.
Onward. Callao, Peru†	30.13	765.3	58	14.4	94	calm			0		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.61	752.1	75	23.9	95	ssw.			4		10		ssw.					cloudy.
Passaic, Washington, D. C	30.18	766.6	66	18.9	89	calm			0		0							clear.
Pensacola, N. 2° 08′, W. 80° 54′*	29.84	757.9	75	23.9	90	ssw.			4		10		sw.	driz'l	driz'l	light	sw.	cloudy.
Portsmouth, Lisbon, Portugal	29.84	757.9	68	20.0	79	wsw.			4		10							cloudy.
Powhatan, Key West, Florida	30.07	763.8	86	30.0	76	calm			0		0							clear.
Quinnebang, Alexandria, Egypt	29.87	758.7	78	25.6	73	nw.			4		2		nw.			sm'h		clear.
Ranger, Mare Island, Cal	29.87	758.7	61	16.1	71	ssw.			3		0			0	0			clear.
Richmond, Yokohama, Japan*	29.91	759.7	71	21.7	100	ene.			3		10			0.4	10.			raining.
Saratoga, Lisbon, Portugal	29.86	758.4	67	19.4	84	sw.			2		8		sw.	light	light	sm'h		fair.
St. Louis, League Island, Pa	30.35	770.9	68	20.0	74	calm			0		0			0	0			clear.
Swatara, Yokohama, Japan*	29.85	758.2	70	21.1	85	ne.			4		10		ne.			mod.	ne.	light rain.
Tennessee, New York, N. Y	30.20	767.1	79	26.1	100	nw.	4	1.8			0			0	0			clear.
Vandalia, Portsmouth, N. H*†	30.14	765.5	69	20.6	95	nw.			1		0							clear.
Wabash, Boston, Mass	30.06	763.5	64	17.8	78	w.	3	1.3			2		w.	0	0			clear.
Wachusetts, Highfield, Alaska	30.13	765.3	44	6.7	100	ese.			1		2		calm	0	0	sm'h		fair.
Wyoming, Port Royal, S. C*	30.07	763.8	75	23.9	68	ne.	3	1.3			5		calm	0	0			fair.
Yantic, off Bangor, Maine	30.04	763.0	60	15.6	94	calm			0		0							clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Allan Line.																		
S. S. Grecian, N. 47° 21′, W. 70° 16′*.	29.90	759.4	68	20.0	.....	ssw.	.....	.....	4	.....	1	.....	ssw.	0	0	.....	.....	fair.
S. S. Scandinavian, N. 48° 23′, W. 41° 33′*.	30.17	766.3	55	12.8	.....	nw.	.....	.....	4	.....	3	.....	w.	sh'rs	sh'rs	mod.	short	d. clouds.
S. S. Waldensian, N. 55° 22′, W. 8° 25′*.	29.13	739.9	54	12.2	.....	s.	.....	.....	2	.....	hz.	.....	s.	0	0	light	se.	hazy.
American Steamship Company.																		
S. S. Lord Clive, N. 50° 04′, W. 20° 55′*†.	29.45	748.0	.....	.....	.....	nw.	.....	.....	6	.....	8	.....	nw.	sh'rs	sh'rs	str'g	wnw.	cloudy.
S. S. Lord Gough, N. 51° 11′ W. 14° 12′.	29.20	741.7	61	16.1	.....	wsw.	.....	.....	6	.....	10	.....	wsw.	sh'rs	sh'rs	long	w.	squally
S. S. Pennsylvania, N. 43° 12′, W. 42° 38′†.	30.29	769.4	64	17.8	.....	nw.	.....	.....	3	.....	7	.....	n.	.....	.....	sm'h	sw.	showery.
Anchor Line.																		
S. S. Assyria, N. 38° 20′, W. 14° 15′*†.	29.92	760.0	68	20.0	.....	sw.	.....	.....	6	.....	8	.....	w.	0	0	mod.	sw.	cloudy.
S. S. Galatia, N. 36° 13′, W. 3° 25′†.	30.05	763.3	76	24.4	.....	w.	.....	.....	6	.....	2	.....	wnw.	0	0	r'gh	wnw.	clear
S. S. Utopia, N. 41° 02′, W. 67° 19′†.	30.24	768.1	55	12.8	80	calm	.....	.....	0	.....	5	.....	wsw.	4 h'r	4 h'r	sli't	sw.	light haze.
Atlas Line.																		
S. S. Ailsa, N. 35° 31′ W. 74° 21′†.	30.10	764.5	76	24.4	69	ne.	.....	.....	4	.....	2	.....	nne.	3 h'r	3 h'r	sm'h	.....	fine.
S. S. Alvena, N. 35° 00′, W. 74° 17′†.	30.04	763.0	77	25.0	77	ne.	.....	.....	2	.....	2	.....	ne.	4 h'r	4 h'r	light	ne.	fine.
S. S. Alvo, Kingston, Jamaica, W. I.	30.04	763.0	.....	.....	.....	se.	.....	.....	3	.....	2	.....	.....	0	0	.....	.....	clear.
S. S. Antillas, Humacao, Porto Rico, W. I*†.	30.30	769.6	.....	.....	.....	ese.	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	
British Meteorological Office.																		
S. S. Aukland N. 14° 00′, W. 26° 20′.	30.16	766.1	76	24.4	85	nne.	.....	.....	3	.....	8	.....	.....	.....	.....	.....	.....	overcast.
Bk. Arran, S. 7° 21′ W. 73° 55′.	29.92	760.0	75.5	24.2	80	ese.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Basil, N. 14° 26′, W. 8° 32′.	29.61	752.1	64.6	18.1	83	sw.	.....	.....	5	.....	9	.....	.....	.....	.....	con.	sw.	overcast.
S. S. Baroda, S. 27° 35′, E. 39° 04′.	30.28	769.1	70.6	21.4	71	n.	.....	.....	3	.....	2	.....	.....	.....	.....	.....	.....	blue sky
S. S. City of Agra, N. 14° 00′, W. 23° 10′.	30.18	766.6	76	24.4	85	nne.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Cipero, N. 17° 20′ W. 58° 13′.	30.19	766.8	81.2	27.3	82	e.	.....	.....	3	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Glencairn, N. 25° 56′, W. 40° 50′.	30.33	770.4	79	26.1	78	ese.	.....	.....	4–5	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Gordon Castle, N. 36° 02′, E. 16° 00′.	30.08	764.0	82	27.8	70	wnw.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Markland, S. 29° 53′, W. 132° 40′.	30.24	768.1	63	17.2	78	ene.	.....	.....	2	.....	8	.....	.....	.....	.....	4	e.	d. clouds.
Bkt. May Hulse, S. 21° 39′, W. 23° 32′.	30.31	769.9	71.5	21.9	90	s.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	showery.
S. S. Oamaru, S. 29° 30′, E. 38° 00′.	30.28	769.1	68.5	20.3	70	ne.	.....	.....	5	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Pole Star, N. 10° 40′ W. 29° 06′.	30.16	766.1	80.9	27.2	91	nnw.	.....	.....	3	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
Cunard Line.																		
S. S. Bothnia, N. 41° 06′, W. 61° 27′.	30.13	765.3	76	24.4	95	s.	.....	.....	4	.....	7?	.....	s.	2 h'r	2 h'r	mod.	s.	clear?
S. S. Gallia, N. 42° 46′, W. 45° 34′.	30.32	770.1	71	21.7	95	w.	.....	.....	6	.....	8	.....	w.	mist	mist	sm'h	.....	overcast.
S. S. Marathon, N. 42° 04′, W. 52° 44′.	30.36	771.1	68	20.0	.....	s.	.....	.....	1	.....	1	.....	.....	0	0	mod.	sw.	fine.
S. S. Scythia, N. 51° 07′, W. 12° 51′.	29.22	742.2	61	16.1	88	w.	.....	.....	1	.....	6	.....	var.	2 h'r	2 h'r	slight	wsw.	fine.
General Trans-Atlantic Company																		
S. S. France, N 43° 51′, W. 43° 50′†.	30.22	767.7	66.2	19.0	.....	nw.	.....	.....	3	ck	.....	wnw.	.....	0	0	h'vy	w.	covered.
S. S. Ville de Marseilles, Marseilles, France*†.	29.80	759.9	86	30.0	.....	sse.	.....	.....	6	.....	4	.....	sse.	0	0	.....	.....	
Guion Line.																		
S. S. Arizona, N. 44° 03′, W. 49° 29′.	30.32	770.1	57	13.9	.....	ssw.	.....	.....	2	.....	10	.....	sw.	0	0	.....	w.	dense fog.
Hamburg American Packet Company.																		
S. S. Bohemia, Hamburg, Germany†.	29.56	750.8	.....	.....	.....	ssw.	.....	.....	4	.....	5	.....	sw.	½ h'r	½ h'r	.....	.....	
S. S. Cimbria, N. 40° 59′, W. 64° 41′.	30.09	764.3	59	15.0	.....	wnw.	.....	.....	1	.....	10	.....	wnw.	6 h'r	6 h'r	mod.	sw.	covered.
S. S. Gellert, N. 42° 23′, W. 44° 03′.	30.33	770.4	68	20.0	.....	wnw.	.....	.....	5	.....	10	.....	wnw.	6 h'r	6 h'r	long	sw.	cloudy.
S. S. Herder, New York, N. Y.*†.	30.00	762.0	77	25.0	.....	sw.	.....	.....	2	.....	1	.....	w.	0	0	.....	.....	clear.
S. S. Silesia, N 48° 31′, W. 21° 04′†.	29.51	749.5	.....	.....	.....	wnw	.....	.....	6	.....	8	.....	wnw.	2 h'r	2 h'r	6	wnw.	squally.
Lampert and Holt's Line.																		
S. S. Hevelius, N. 31° 00′, W. 17° 00′*†.	30.32	770.1	72	22.2	.....	w.	.....	.....	3	.....	9	.....	wnw.	0	0	sm'h	.....	hazy.
Mallory Line.																		
S. S. Colorado, N. 26° 08′, W 86° 03′†.	30.05	763.3	84	28.9	.....	ssw.	.....	.....	2	.....	2	.....	sw.	0	0	small	s.	clear.
Mediterranean and New York Steamship Co.																		
S. S. Archimede, N. 35° 38′, W. 10° 33′*†.	30.02	762.5	74	23.3	90	wsw.	.....	.....	4	.....	7	.....	wsw.	1 h'r	1 h'r	mod.	w.	cloudy
Merchants' Express Line.																		
S. S. Freja, N. 38° 50′, W. 60° 53′†.	30.30	769.6	80	26.7	91	ssw.	.....	.....	5	.....	5	.....	.....	0	0	mod.	sw.	
Merchant Steamship Company.																		
S. S. Glenfyne, Rio de Janeiro, Brazil.	29.73	755.1	.....	.....	.....	s	.....	.....	4	.....	.....	.....	w.	0	0	.....	.....	fine.
S. S. Glenapp, N. 29° 02′ W 65° 58′†.	30.31	769.9	.....	.....	.....	se.; sw.	.....	.....	2	.....	7	.....	sw.	0	0	sm'h	.....	fine.
National Line.																		
S. S. Canada, N. 40° 23′ W. 68° 08′†	30.07	763.8	64	17.8	.....	var.	.....	.....	1	.....	5	.....	w.	6 h'r	6 h'r	sm'h	.....	fine.
S. S. Denmark, London, Eng.	29.59	751.6	61	16.1	.....	s.	.....	.....	6	.....	8	.....	sw.	3½ h'r	3½ h'r	.....	.....	squally
S. S. England, N. 51° 04′, W. 14° 36′.	29.29	744.0	.....	.....	.....	wsw.	.....	.....	6	.....	8	.....	wsw.	6 h'r	6 h'r	high	wsw.	showery.
S. S. Erin, Liverpool, Eng.	29.25	742.9	65	18.3	.....	wsw.	.....	.....	3	.....	5	.....	wnw.	10 h'r	10 h'r	.....	.....	squally.
S. S. Greece, N. 48° 59′, W. 18° 46′.	29.32	744.7	.....	.....	.....	nnw.	.....	.....	4	.....	8	.....	nnw.	5 h'r	5 h'r	mod.	nnw.	showery.
New York and Cuba Mail Steamship Company.																		
S. S. Santiago, N 22° 59′ W. 74° 27′†.	30.12	765.0	79	26.1	.....	e.	.....	.....	4	.....	5	.....	ese.	0	0	g'ntle	ese.	fine.
New York, Havana and Mexican Mail.																		
S. S. City of Alexandria, Fontera Roads, Mexico†.	30.08	764.0	80	26.7	86	ene.	.....	.....	3	.....	2	.....	ne.	0	0	.....	.....	clear.
S. S. City of Washington, Havana, Cuba, W. I*†.	30.15	765.8	83	28.3	.....	calm	.....	.....	0	.....	2	.....	ne.	0	0	.....	.....	fine.
North German Lloyd.																		
S. S. Habsburg, N. 40° 45′, W. 48° 40′.	30.46	773.7	73.4	23.0	.....	wsw.	.....	.....	3	.....	2	.....	wsw.	0	0	sm'h	.....	clear.
S. S. Hermann, N. 42° 02′ W. 45° 30′.	30.38	771.6	74.3	23.5	.....	wnw.	.....	.....	5	.....	4	.....	wsw.	0	0	mod.	wsw.	fair.
S. S. Hohenzollern, N. 37° 15′, W. 74° 27′*.	30.17	766.3	66.2	19.0	.....	n.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	sw.	clear.
S. S. Leipzig, N. 44° 28′, W. 35° 16′.	30.14	765.5	62.0	16.7	83	nw.	.....	.....	6	.....	8	.....	nw.	5 h'r	5 h'r	cross	nnw.	fair.
S. S. Mosel, N. 49° 13′, W. 20° 25′.	29.46	748.3	53.6	12.0	.....	wnw.	.....	.....	6	.....	9	.....	wnw.	4½ h'r	4½ h'r	cross	w.	cloudy.
S. S. Ohio, Bremerhaven, Germany.	29.52	749.8	.....	.....	.....	ssw.	.....	.....	4	.....	3	.....	ssw.	14 h'r	14 h'r	.....	.....	fair.
S. S. Rhein, N. 45° 44′ W. 35° 36′.	30.07	763.8	.....	.....	.....	nnw.	.....	.....	6	.....	0	.....	nnw.	6 h'r	6 h'r	long	nw.	cloudy.
S. S. Salier, Baltimore, Md.	30.10	764.5	65.3	18.5	.....	e.	.....	.....	2	.....	5	.....	e.	0	0	.....	.....	fair.
S. S. Strassburg, N. 50° 35′, W. 0° 23′.	29.42	747.3	65.0	18.3	73	sw.	.....	.....	5	.....	2	.....	sw.	2½ h'r	2½ h'r	mod.	sw.	clear.
Occidental and Oriental Steamship Company.																		
S. S. Arabic, N. 28° 52′, E. 129° 16′†*.	29.77	756.1	76	24.4	95	wnw.	.....	.....	2	.....	5	.....	sw.	hv'y	hv'y	sm'h	sw.	misty.
S. S. Belgic, San Francisco, California†.	29.92	760.0	60	15.6	76	wsw.	.....	.....	5	.....	2	.....	wsw.	.....	.....	.....	.....	clear.
S. S. Gaelic, N. 44° 36′, W. 142° 04′†.	30.51	774.9	62	16.7	46	sse.	.....	.....	4	.....	9	.....	sse.	.....	.....	sli't	s.	overcast.
S. S. Oceanic, Hong Kong, China*.	29.81	757.2	86	30.0	75	s.	.....	.....	5	.....	8	.....	se.	.....	.....	.....	.....	cloudy.
Ocean Steamship Company.																		
S. S. City of Augusta, Savannah, Ga.†.	30.15	765.8	.....	.....	.....	calm	.....	.....	0	.....	3	.....	n.	0	0	.....	.....	clear.
S. S. City of Columbus, N 37° 33′, W 74° 48′†.	30.08	764.0	.....	.....	.....	nw.	.....	.....	3	.....	0	.....	.....	0	0	long	e.	clear.
S. S. Seminole, off Gay's H'd, Martha's Vineyard, Mass	30.13	765.3	65	18.3	90	calm	.....	.....	0	.....	1	.....	wnw.	0	0	long	sse.	clear.
Oregon Railway and Navigation Company.																		
S. S. Columbia, N. 40° 13′, W. 124° 24′†.	30.05	763.3	51	10.6	78	nnw.	.....	.....	5	.....	0	.....	.....	0	0	mod.	nw.	clear.
S. S. Oregon, San Francisco, Cal.†.	29.97	761.2	57	13.9	93	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
Pacific Coast Steamship Company.																		
S. S. Ancon, N. 33° 39′, W. 118° 18′†.	29.88	758.9	62	16.7	88	ese.	.....	.....	2	.....	10	.....	e.	.....	.....	sm'h	.....	cloudy.
S. S. State of California, Portland, Oregon†.	30.18	766.6	53	11.7	73	e.	.....	.....	2	.....	8	.....	w.	.....	.....	.....	.....	cloudy.
S. S. Victoria, Tura Point†.	29.90	759.5	53	11.7	80	sw.	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	fair.
Pacific Mail Steamship Company.																		
S. S. Australia, Sydney, Australia.	30.15	765.8	63	17.2	40	nnw	.....	.....	3	.....	5?	.....	nw.	0	0	.....	.....	clear?
S. S. City of New York, N. 24° 32′, W. 150° 11′†.	30.21	767.3	73	22.8	76	e.	.....	.....	4	.....	2	.....	e.	0	0	sm'h	.....	clear.
S. S. City of Pekin, N. 37° 02′ E. 145° 13′†.	30.15	765.9	68	20.0	79	ese.	.....	.....	5	.....	10	.....	ese.	0	0	small	se.	cloudy.
S. S. City of Rio de Janeiro, N. 35° 15′, W. 121° 44′*†.	30.10	764.5	56	13.3	81	nw.	.....	.....	5	.....	0	.....	.....	0	0	mod.	nw.	hazy.
S. S. City of Sydney, Sydney, N. S. W.†.	29.86	758.4	61	16.1	55	w.	.....	.....	3	.....	5	.....	w.	0	0	sm'h	.....	fair.
S. S. City of Tokio, N. 43° 26′, W. 157° 13′†.	30.40	772.1	55	12.8	80	wnw.	.....	.....	3	.....	5	.....	wnw.	0	0	small	wnw.	fair.
S. S. Colon, N 19° 03′, W. 74° 20′†.	30.11	764.8	83	28.3	.....	s.	.....	.....	1	.....	3	.....	se.	0	0	small	ne.	fair.
S. S. Colima, N. 7° 00′, W. 80° 55′†.	29.87	758.7	80	26.7	87	n.	.....	.....	4	.....	9	.....	nnw.	0.17	4.3	mod.	s.	cloudy.
S. S. Grenada, N. 15° 49′, W. 97° 19′†.	29.91	759.7	82	27.8	100	nw.	.....	.....	1	.....	0	.....	.....	0	0	light	sw.	clear.
S. S. Zealandia, N. 30° 49′, W. 140° 58′.	30.20	767.1	69	20.6	90	ne.	.....	.....	3	.....	10	.....	ne.	.....	.....	mod.	ne.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
QUEBEC S. S. COMPANY.																		
S. S. Muriel, Trinidad, W. I.	29.97	761.2	80	26.7		ene.			2		2			0	0	sm'h		fair.
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	29.59	751.6	65	18.3	73	wsw.			6		8		w.	2 h'r	2 h'r			showery.
S. S. Rhynland, N. 46° 30′, W. 33° 01′	30.02	762.5	58	14.4	82	nw.			6		8		nw.	0	0	high	nw.	cloudy.
S. S. Switzerland, N. 48° 01′, W. 21° 51′	29.54	750.3				wnw.			6		8		wnw.	0	0	h'vy	wnw.	squally.
S. S. Vaderland, Antwerp, Belgium	29.47	748.5	64	17.8	89	sw.			4		8		sw.	0	0			cloudy.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 47° 33′, W. 30° 23′*	29.87	758.7	59.5	15.3	73	nw.			6		7		nw.	3 h'r	3 h'r	h'vy	nw.	cloudy.
S. S. W. A. Scholten, N. 47° 43′, W. 27° 44′	29.65	753.1	56.9	13.8	87	nw.			6		5		nw.	sq 'lls	sq'lls	hv'y	w.	rainy.
STATE LINE.																		
S. S. State of Florida, N. 49° 07′, W. 28° 37′	29.67	753.6	53	11.7		nw.			6		7		nnw.	shr's	shr's	r'gh	nnw.	cloudy.
S. S. State of Georgia, N. 40° 23′, W. 69° 31′†	30.07	763.8	60	15.6		w.			1		0			0	0	mod	s.	fine.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 58° 41′, W. 3° 55′†	29.46	748.3	57.2	14.0		se.			3		6?		se.	0	0	sm'h	se.	covered?
WARREN LINE																		
S. S. Iowa, N. 50° 44′, W. 15° 19′*†	29.32	744.7	58	14.4		w.			4		3		w.	4 h'r	4 h'r	mod.	w.	clear.
WHITE STAR LINE.																		
S S. Baltic, N. 48° 15′, W. 28° 58′†	29.87	758.7	54	12.2	93	nw.			5		9		nnw.	1 h'r	1 h'r	r'gh	nw.	cloudy.
S. S. Britannic, N. 41° 49′, W. 62° 04′†	30.17	766.3	63	17.2	100	wsw.			3		10		sw.			mod.	w.	showery.
S. S. Celtic, N. 40° 28′ W. 67° 39′†	30.15	765.8	65	18.3	89	w.			2		10		w.	0	0	mod.	se.	overcast.
S. S. Republic, N. 50° 41′ W. 17° 04′†	29.38	746.2	60	15.6	88	w.			6		5		w.	sh'rs	sh'rs	mod.	w.	showery.
WILSON LINE.																		
S. S. Romano, N. 43° 18′, W. 37° 08′	30.18	766.6	64	17.8		n.			4		5?		n.	0	0	sm'h		clear.?
WINSOR LINE.																		
S S. Catherine Whiting, Montauk Point, L. I†	30.14	765.5	62	16.7		nw.							se.	0	0	long	sse.	
MISCELLANEOUS.																		
Schr. Addie Fuller, Bath, Me†	30.10	764.5	66	18.9	78	calm			0	0	0			0	0			clear.
Schr. Ajax, Indianola, Texas†	30.06	763.5				sw.			1		7		sw.	0	0			fair.
Bk. Alpha, New York, N. Y†	30.07	763.8	68	20.0		ne.			1		0			0	0			clear.
Schr. Annie Lewis, Aransas Pass, Texas†	30.05	763.3	81	27.2		sse.			3		0			0	0	long	se.	clear.
Bk. Anna Thorman, S. 35° 56′, W. 8° 00′	30.41	772.4	61.2	16.2	67	nnw.			4		1 k		n.	0	0	mod.	nw.	clear.
S. S. Antonio Lopez, Malaga, Spain	29.89	759.2	77	25.0	46	sw.			5		0			0	0			clear.
Bk. Argonaut, N. 59° 39′, W. 4° 27′*†	29.27	743.4	57.7	14.3		sse.			4		9			0	0	mod	n.	hazy.
Schr. Asa Eldridge, N. 25° 01′, W. 81° 53′†	30.17	766.3				ssw.			2		5		sw.	0	0	long	wnw.	squally.
Bk. Aureola, Bahia, Brazil*†	30.40	772.1	70	24.4		ese.			2		2		se.	2 h'r	2 h'r			clear.
Bk. Bergenseren, N. 45° 50′ W. 59° 00′†	30.03	762.7				ssw.			3		fg		wsw.	rain	rain	5	ssw.	foggy.
Bk. Cato, N. 49° 22′, W. 28° 15′*†.	30.02	762.5				nw.			6		5?		nw.	0	0	r'gh	nw.	cloudy.?
Bk. Celestina, S. 35° 04′ W. 52° 13′*†	30.05	763.3				n.			3		0			0	0	sm'h	n.	light haze.
Schr. C. R. Flint, Cedar Keys, Florida†	30.18	766.6	79	26.1		ne.			1		5		ne.	0	0			clear ?
Schr. Edith R. Seward, N. 18° 50′, W. 65° 30′*†	30.19	766.8	84	28.9		e.			2		3		ese.	½ h'r	½ h'r	mod.	e.	fair.
S. E. J. Spicer, N. 40° 45′, W. 69° 40′†	30.10	764.5				sw.			2		5		sw.	0	0	mod.	sw.	
S. Enoch Train, N. 38° 23′, W. 70° 34′*†	30.22?	767.6?				nnw.			1		2			0	0	sm'h		clear.
Bk. Essex, S. 31° 57′, W. 18° 52′*†	30.30	769.6	65	18.3		e.			2		1		wsw.	0	0	long	wsw.	clear.
Bk. Freya, N. 41° 28′, W. 64° 53′			65	18.3		calm			0					0	0	mod	ssw.	foggy.
S. Grecian, Hong Kong, China*†	29.85	758.2	84	28.9		s.			3		3		w.	0	0			clear.
Bk Hattie G. McFarland, Portland, Me*†	30.07	763.8	61	16.1		calm			0		3		sw.	0	0			fair.
S. Hedwig, N. 37° 30′, E. 3° 19′	29.88	759.0	78.1	25.6	86	wnw.			4		2		wnw.	0	0	short	wnw.	fine.
Bk. Horace Scudder, N. 34° 00′, W. 69° 00′†	30.02	762.5	74	23.3		nw.			2		10			5 h'r	5 h'r	short	w.	d. clouds.
S. Ivy, N. 19° 34′ W. 125° 32′†	30.23	767.8	69	20.6		ene.			2		10		ne.	0	0	mod.	se.	misty.
Schr. Jennie N. Huddell, Camden, N. J†	30.25	768.3	75	23.9	90	nnw.			1		0			0	0			clear.
Bk. Johanne, N. 58° 44′, —. 0° 00′*†.	29.45	748.0	59	15.0		se.			4		8		s.	0	0	mod	se.	hazy.
Schr. John L. Thomas, Vivorilla Cays, Mosquito Coast*†	30.08	764.0				ene.			3		2		ene.	0	0			clear.
Bg. John Wesley, N. 31° 15′ W. 67° 40′†	30.14	765.5				ssw.			3		4		ssw	0	0	mod.	ssw.	fair.
Bk. Joseph A. Ropes, N. 11° 33′, W. 29° 50′*†	30.19	766.8	84	28.9	83	n.			2		4		n	0	0	mod.	se.	fair.
Bkt. Josephine, N. 39° 06′ W. 71° 26′†	30.10	764.5	71	21.7	71	wnw.			3		2			0	0	long	ssw.	fine.
Bkt. Kryolith, N. 58° 36′, W. 51° 27′*†	30.12	765.0				sw.			3							sm'h		foggy.
S. S. Lamperts, Suez Canal, Egypt*	29.81	757.2	86.0	30.0	72	nnw.			3		0							blue sky.
Light House Tender, Laurel, Key West, Florida†	30.10	764.5	85	29.4		se.			2		8		se.	0	0			cloudy.
Bk. Liberia, N. 9° 04′, W. 18° 14′.*	29.97	761.2	79	26.1	86	w.			4		6		w.	0	0			fine
S. S. Malabar, N. 47° 54′, W. 174° 47′*†	30.00	762.0							8					sh'rs	sh'rs			raining.
S. Paramita, S. 25° 07′, W. 92° 27′†	30.16	766.1	73	22.8		e.			1		3		e.	0	0	h'vy	sw.	clear.
S. S. Ponca, N. 5° 30′, W. 50° 58′†	30.08	764.0	87	30.6		e.			1		1		e.	0	0	light	e.	clear.
S. S. Sunbeam, N. 41° 04′. E. 29° 04′	29.99	761.7	79	26.1		ne.			2		0							blue sky.
S. Sovereign of the Sea, N. 12° 14′, W. 31° 00′*†	30.06	763.5	83	28.3	87	nne.			2		4		ne.	0	0	mod	cross	clear.
Bg. Teneriffe, Cardenas, Cuba, W. I.	30.05	763.3				se.			1									
Bk. Truro, N. 45° 25′, W. 26° 30′*†	29.80	756.9				nnw.			6		10		nnw.	2 h'r	2 h'r	cross		squally.
U. S. F. C. S. S. FishHawk, Washington, D. C†	30.40	772.1	81	27.2	91	calm			0		1		calm	0	0			clear.
S. S. Victoria J. Peed, N. 13° 48′, W. 75° 18′						e.			10		0							
Schr. Viola Reppard, Baltimore, Md†	30.02	762.5	74	23.3		ssw.			2		0			0	0			clear.
Bk Wm. Wilcox, S. 24° 39′, W. 41° 30′*†	30.52	775.2	71	21.7		sse.			4		0			0	0	mod.	se.	clear.
S. Wm. Woodbury, N. 47° 25′, W. 15° 38′*	29.43	747.5	62	16.7	83	nw.			4		6?		nnw.	sq 'lls	sq 'lls	long	wnw.	clear.?

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 8, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec.	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.95	760.8	77.5	25.3	77	s.			3		1			0	0	very fair	Bouvier.
Algiers			29.92	759.9	86.0	30.0	38	nw.			2		0			0	0	clear	Nicolas.
La Galle			29.93	760.2	86.7	30.4	67	n.			3		2			0	0	fair	Fonfrède.
Tunis			29.97	761.2															Jacques.
Saida			30.02	762.6	88.5	31.4	31	ene.			2		0			0	0	clear	Peres.
Tebessa			30.02	762.4	100.4	38.0	30	sw.			2		3			0	0	pretty fair	Derché.
Geriville					90.3	32.4	1	wsw.			9		2			c	0	fair	Louchamp.
Laghouat			30.06	763.6	105.8	41.0	34	se.			4		0			0	0	clear	Abraham.
Biskra			30.02	762.5	105.1	40.6	18	se.			3		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.76	755.9	29.85	758.2	44.0	6.7	96	ene.	3	1.3			3			0.25	6.4	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.27	743.5	29.79	756.6	86.0	30.0	31	sw.			5		6			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.95	735.3	29.67	753.5	82.0	27.8	47	sw.	1.8	0.8			0			0	0		Dr. Wierzbiski.
Eperies	28.89	733.8	29.71	754.7	83.5	28.6	49	s.			2	2 c	0			0	0		Julius Mikolik.
Gratz	28.54	724.8	29.71	754.6	81.0	27.2	63	sw.			3		4			0	0		Andreas Rospini.
Hermannstadt	28.52	724.3	29.84	757.9	90.0	32.2	30	nw.			2		4			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.33	719.6	29.59	751.6	77.5	25.3	72	nnw.			1		6			0	0	fair	The Staff.
Lemberg	28.96	735.6	29.89	759.2	81.5	27.5	44	se.			2		1			0	0		Dr. T. Stanecki.
Pola	29.75	755.7	29.86	758.4	83.1	28.4	53	se.			5		0			0	0		I. R. Hydrographic Office.
Szathmar	29.32	744.7	29.76	756.0	89.4	31.9	31	sw.			3		1			0	0		Joseph Midlinszky, S. J.
Szegedin					91.8	33.2	31									0	0		Karl Stancel.
Trieste	29.78	750.4	29.88	759.0	81.0	27.2	46	calm			0		2			0	0		Royal Academy.
Vienna	28.98	736.1	29.65	753.0	83.8	28.8	48	se.			1		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.21	741.9	29.30	744.2	63.0	17.2	69	sse.	17	7.6			5			0.840	21.3	blue sky	W. Boswell
Armagh, Observatory	29.11	739.4	29.34	745.2	61.0	16.1	68	ssw.	10	4.5			8					showery	S. Call.
Bidston, Liverpool Obs'y			29.39	746.5	59.1	15.1	81	wsw.	6	2.7			7					showery	John Hartnup.
Bolton, Sharples	28.87	733.3	29.39	746.5	58.6	14.8	78	wnw.					9					raining	Thomas Mackereth, [ton.
Bradford, Yorkshire	29.02	737.1	29.41	747.0	59.0	15.0	65	sw.			1		8			0	0	d. clouds	McLandsborough & Pres.
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	80.0	26.7	84	ne.			2		8					overcast	Corpl. J. Surgenor, A. H. C.
Cardington			29.46	748.3	69.0	20.6	67	sw.			1.0		8					thnd'r storm	John McLaren.
Chatham, School M. E.	29.39	746.5	29.52	749.8	62.0	16.7	77	s.			2		9			blank	blank	gloomy	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.24	742.7	29.46	748.3	63.1	17.3	67	ssw.			3		6					d. clouds	The Staff.
Fort Napier, Natal	27.55	699.8	29.76	755.9	72.2	22.3	37	e.			1		3					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.67	753.6	29.92	760.0	82.0	27.8	87	n.			1		8						Sergt. John Robinson.
Gibraltar, Mediterranean	29.99	761.7	30.05	763.3	76.3	24.6	76	w.			3		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.13	739.9	29.33	745.0	60.0	15.6	68	wsw.			3		8 k		ne.			d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.32	744.7	29.49	749.0	56.0	13.3	87	sw.			1		10					raining	The Staff.
Guernsey	29.23	742.4	29.52	749.8	58.0	14.4	93	sw.			1		10					raining	A. Collenette, F. M. S.
Kew, Observatory	29.47	748.5	29.51	749.5	59.6	15.3	81	s.	8	3.6			10					showery	The Staff.
Leicester, Museum	29.18	741.2	29.43	747.5	65.0	18.3	60	sw.			2		3					d. clouds	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.01	762.2	86.8	30.3	49	s.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.14	765.5	30.18	766.6	87.0	30.6	66	se.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.93	734.8	29.43	747.5	63.0	17.6	65	s.			3		6					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.24	742.7	29.47	748.5	63.2	17.3	71	sse.			3		7					threatening	The Staff.
Plymouth	29.39	746.5	29.46	748.3	66.5	19.2	73	ssw.			2		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.29	744.0	58.9	14.9	84						0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.89	759.2	29.95	760.7	92.8	33.8	19	ne.			2		0					blue sky	W. H. Lyne.
Sheffield								sw.			2		8			0	0	overcast	W. F. Cooper.
Stiloth Rectory	29.34	745.2	29.37	746.0	64.4	18.0	67	wsw.			4		3			0.120	3.0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.42	747.3	61.0	16.1	63	sw.	11	4.9			5			blank	blank	d. clouds	Rev. S. J. Perry.
Strathfield Turgiss	29.27	743.4	29.48	748.8	65.0	18.3	71	s.			2		8					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.44	747.8	29.45	748.0	69	20.6	56	sw.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.34	745.2	29.37	746.0	59.7	15.4	76	wnw.	17	7.6			8			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.83	757.7	29.87	758.7	63	17.2	81	w.	3	1.3			10 s		se.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.85	758.2	29.91	759.7	61	16.1	93	s	2	0.9			10 ks		s.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.85	758.2	29.87	758.7	56	13.3	86	sw.	15	6.7			10 s		w.	inap.	inap.	threatening	J. McWilliams.
Fort Garry, Manitoba*	28.94	735.1	29.74	755.4	59	15.0	90	s.	2	0.9			10 ks		w.	0.016	0.4	cloudy	James Stewart.
Halifax, N. S*	29.84	757.9	29.96	761.0	58	14.4	93	w.	1	0.4			10 ks			0	0	cloudy	A. Allison.
Kingston, Ontario*	29.66	753.4	29.99	761.7	64	17.8	90	s.	8	3.6			10 k		s.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.76	755.9	29.96	761.0	66	18.9	70	w.	14	6.3		5 ck	5 s	w.		0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.25	742.9	29.93	760.2	63	17.2	87	e.	4	1.8		2 k	8 ks	sw.	sw.	0	0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.28	743.7	29.95	760.7	66	18.9	95	s.	4	1.8		4 ck	0	sw.		inap.	inap.	fair	H. Morgan.
Port Stanley, Ontario	29.31	744.5	29.94	760.5	66	18.9	87	s.	2	0.9			10 n		sw.	inap.	inap.	light rain	M. Payne.
Quebec, Quebec*	29.64	752.8	29.95	760.7	65	18.3	90	w.			1		10 s		w.	0	0	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.49	749.0	29.93	760.2	61	16.1	93	calm	0	0			10 ks		s.	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.19	741.4	29.88	758.9	67	19.4	93	s.	6	2.7			10 ks			0.02	0.5	cloudy	
St. Andrews, N. B	29.90	759.4	29.95	760.7	58	14.4	91	calm	0	0			10 n			0	0	cloudy	
Sydney, C. B*	29.83	757.7	29.89	759.2	61	16.1	87	sw.	5	2.2		10 cs	0			0	0	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.60	751.8	29.97	761.2	67	19.4	76	s.	7	3.1			10 ks		w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.93	760.2	29.99	761.7	56	13.3	90	calm	0	0		3 c	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
Mount Forest	28.55	725.2	29.98	761.5	62.0	16.7	88	wsw.			2	10nc;c	10nc;c	ssw.		0.015	0.4	cloudy	Wm. Wylie.
St. Johns, Newfoundland	30.02?	762.5?	30.27?	768.8?	65?	18.3?	89	sw.	1	0.4			10 n			0.03	0.8	raining	John Denny.
Cape Colony.																			
Cape St. Francis Lt. House	30.04	763.0	30.07	763.8	53.5	11.9	97	wsw.	20.7	9.3			10 n			0.075	1.9	showery	John Duthie.
Cape Town, C. G. H. Obs'y	30.22	767.6	30.25	768.3	63.8	17.7	60	wsw.	7	3.1		4	0			1.932	49.1		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.69	754.2	29.72	754.8	67.8	19.9	89	e.	18.6	8.3			10			2.169	55.1	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.58	751.3	29.63	752.5	65.8	18.8	70	s.	13	6			9						Oversergent Fischer.
Fanöe	29.57	751.0	29.59	751.5	63.5	17.5	74	wsw.			4		5						Overloerer Lauridsen
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.48	748.8	29.52	749.9	40.3	4.6	86	e.			7		10					raining	A. O. Thorlacius.
Thorshavn	29.30	744.3	29.34	745.2	53.8	12.1	91	ene.	13	6			10					foggy	Overloerer Bergh.
Vestervig	29.43	747.6	29.52	749.9	63.1	17.3	79	ssw.			4		4						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.16	740.6	29.79	756.6	65.1	18.4	96	se.			1		n		nw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.03	737.4	29.58	751.4	60.4	15.8	98	s.			2		10 n			0.31	8.	raining	M. Nicot, Director.
Arras, Engineer School	29.31	744.5	29.56	750.7	64.9	18.3	98	w.			2		10 n		w.			raining.	M. Fénéon, Command't.
Avignon, Normal School	29.63	752.7	29.71	754.7	79.5	26.4	71	se.			2		5		sw.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.08	738.6	29.62	752.4	60.8	16.0	89	se.			1		10		s.	0.512	13.0	covered	M. Saillard, Director.
Beauvais, Normal School	29.35	745.4	29.61	752.0	62.6	17	79	s.			2		10		s.	0.016	0.4	covered	M. Frère Eugène Marié.
Besançon, Normal School	28.77	730.8	29.63	752.7	64.2	17.9	92	s.			1		10		sw.	1.394	35.4	raining	M. Gobin, Director.
Bordeaux, Observatory	29.49	749.0	29.74	755.5	66.4	19.1	68	wnw.			1		10			0.689	17.5	covered	M. Rayet, Director.
Bourges, Normal School	29.09	738.8	29.63	752.5	60.8	16	89	sw.			1		n		sw.	0.28	7.		M. Malet, Director.
Brest, Naval Observatory	29.36	745.7	29.60	751.8	68.0	20.0	72	sw.			3		4		sw.	0.197	5.0	hailing	M. de Kermaree, Dir.
Caen, Normal School	29.49	749.1	29.56	750.9	57.4	14.1	95	sw.			2		8		sw.	0.12	3.	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.36	745.7	29.67	753.6	59.7	15.4	99	calm			0		10			0.083	2.1	covered	M. Jadot, Director.
Charleville, Normal School	29.10	739.2	29.60	751.7	64.0	17.8	63	s.			3					0.004	0.1		M. Grinard, Director.
Clermont-Ferrand Obs'y	28.29	718.6	29.60	751.8	66.2	19.0	63	sw.			4		10			0.772	19.6	covered	M. Allnard, Director.
Cluny, Normal School	28.84	732.4	29.65	753.2	61.9	16.6	91	sw.			1		8			1.69	43.		M. de Villemontée, Dir.
Commercy, Normal School	28.81	731.8	29.65	753.1	58.5	14.7	91	e.			1		10 kn	e.	e.	0.413	10.5	raining	Dr. Coulet, Director.
Gap, Normal School	27.32	693.9	29.78	756.5	65.3	18.5	83	se.			4	4	7 n		sw.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.67	728.3	29.74	755.5	83.1	28 4	44	s.			4		2		s.	0	0		M. Kina, Director.
Grenoble, Normal School	28.86	733.1	29.60	751.7	72.0	22.2	72	ese.			2	clr	0			0	0		M. Ablard, Director.
Guéret, Normal School	28.13	714.6	29.68	753.9	57.4	14.1	82	sw.			4		10 n			0.835	21.2	raining	M. Rivoire, Director.
Lamballe, Normal School	29.28	743.6	29.54	750.3	65.1	18.4	71	s.			2		5		s.	0.492	12.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.22	742.2	29.78	756.4	64.4	18.0	80	w.			2		10			1.02	26.	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.48	748.9	29.59	751.5	63.0	17.2	70	sw.			1		8		sw.	1.043	26.5	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.62	726.9	29.62	752.3	76.6	24.8	52	sw.			3	c	5 n	s.	sw.	0.583	14.8	cloudy	M. André, Director.
Mans, Normal School	29.28	743.7	29.58	751.4	59.9	15.5	88	w.			4		5		w.	0.618	15.7	cloudy	M. Piboen, Director.
Marseille, Observatory	29.50	749.3	29.76	755.9	81.3	27.4	60	se.			1		1		se.	0	0		M. Stephan, Director.
Montlouis	24.71	627.6	29.55	750.6	65.3	18.5	57	sw.	28.0	12.5			5	w.		0	0	foggy	M. Cave, for Dr. Fines.
Montpellier, Normal School	29.80?	757.0?	29.93?	760.2?	71.6	22	95	e.			2		8	ese.		0	0	very cloudy	M. Gaizin, Director.
Nancy, Normal School	28.93	734.7	29.69	754.2	59.4	15.2	91	nw.			1		n		sse.	0.713	18.1		M. Hasse, Director
Nantes. Observatory	29.48	748.9	29.65	753.1	64.6	18.1	72	wnw.			1–2	0	9 k; kn		wnw.	0.026	15.9		M. Larocque, Director.
Perpignan, Observatory	29.52	749.7	29.62	752.3	83.7	28.7	52	nw.	28.0	12.5			5		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.15	537.3			41.4	5.2		sw.			1		10		sw.	0.272	6.9	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.70	728.9	29.69	754.0	80.4	26.9	55	s.			1		10			0	0	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	24.87	631.8			48.7	9.3	100	wsw.			6		10			0.945	24.0	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.61	752.1	29.64	752.9	67.1	19.5	77	w.			4		5		w.	0.12	3.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.37	746.0	29.58	751.3	60.1	15.6	91	wsw.			3		8		sw.	0.307	7.8	raining	M. Mouillot, Director.
Rodez, Normal School	27.71	703.7	29.81	757.1	59.4	15.2	87	nw.			1		10		se.	0.268	6.8	covered	M. Seger, Director.
Rouen, Normal School	29.53	750.1	29.58	751.3	63.4	15.8	87	s.			2		10	s.		0.339	8.6	covered	M. Brotier.
Saint Maur, Observatory	29.45	748.0	29.61	752.2	60.4	15.8	82	ssw.			1		10		s.	0.134	3.4		M. Renou, Director.
Toulouse, Observatory	29.14	740.2	29.86	758.5	60.8	16.0	93	wnw.			3		10		nw.	0.120	3.2	covered	M. Baillard, Director.
Tours	29.41	747.0	29.59	751.5	66.6	19.2	81	sw.			1		10		ssw.	0.201	5.1	raining	M. de Tastes.
Versailles, Observatory	29.12	739.7	29.61	752.2	59.7	15.4	89	sw.			1					0.295	7.5		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.34	745.1	29.63	752.5	60.6	15.9	87	sse.			2		10		ssw.	0.185	4.7	raining	M. Marié Davy, Director
GERMAN.																			
Bamberg	28.90	734.0	29.74	755.5	63.1	17.3	84	sw.			1	0	9 n		sw.	0.260	6.6	raining	Prof. Dr. Hoh.
Berlin	29.62	752.4	29.79	756.7	71.6	22.0	49	w.			3		9			0.047	1.2		Prof. Dr. Arndt.
Breslau	29.25	742.9	29.78	756.3	69.6	20.9	66	n.			1		10					raining	Royal University Obs'y.
Carlsruhe	29.26	743.1	29.69	754.0	60.8	16.0	95	ene.			1		10	sw.		0.787	20.0	raining	Albert Senz.
Cassel	28.96	735.6	29.68	753.8	65.1	18.4	72	s.			2		10	sw.		0.083	2.1		Dr. H. Möhl.
Frankfort-on-the-Main	29.35	745.4	29.71	754.5	61.5	16.4	86	s.			1		10			0.327	8.3		Physical Society.
Friedrichshafen	28.27	718.0	29.63	752.5	70.7	21.5	77	ssw.			3		3	sw.		0.102	2.6		Wilhelm, Chief Tel.
Hamburg	29.58	751.2	29.67	753.6	67.8	19.9	65	sw.			5		8			0.012	0.3		E. Preller.
Kiel	29.60	751.8	29.61	752.2	67.8	19.9	60	w.			4		9			0.106	2.7		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.33	744.9	29.73	755.2	65.8	18.8	70	sw.			2		10	sw.		0.130	3.3	raining	H. Leppig, Asst.
Magdeburg	29.49	749.0	29.67	753.6	69.8	21.0	59	sw.			2		10 ks		sw.	0.039	1.0		Dr. Assmann.
Memel	29.69	754.0	29.73	755.2	66.2	19.0	80	nw.			3		10 s						Issermann.
Munich	27.92	709.2	29.77	756.1	72.5	22.5	63	ne.			3		6	w.		0	0		Dr. C. Lang.
Neufahrwasser	29.71	754.6	29.72	755.0	70.5	21.4	66	e.			1		9			0	0		A. Lothes.
Neustadt, Palatinate	29.18	741.2	29.70	754.4	60.8	16.0	92	ssw.			1		10	s.		0.559	14.2		Dicknether.
Stuttgart	28.75	730.2	29.61	752.2	64.4	18.0	90	n.			1		10			0.394	10.0		Prof. Dr. Schoder.
Wustrow	29.67	753.6	29.69	754.2	66.6	19.2	74	wnw.			2		10 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.61	752.1			90.3	32.4		ne.			1.5		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.46	748.4	29.51	749.6	90.1	32.3	70	w.	22.0	9.8			7		sw.	0.25	6.4	d. clouds	
Deesa	29.00	736.7	29.46	748.4	89.5	31.9	63	se.	17.5	7.8			6	ese.	e.	0	0	d. cloudy	
Bombay	29.63	752.5	29.66	753.4	78.2	25.7	93	wsw.	20.0	8.9			10		sw.	3.84	97.5	overcast	
Poona, Yarrowda	27.81	706.4	29.66	753.4	76.4	24.7	80	sw.	17.0	7.6			10		sw.	0.42	10.7	overcast	
Trichinopoly	29.55	750.4	29.82	757.5	87.5	30.8	47	nw.	6.0	2.7			10			0	0	overcast	
Bellary	28.24	717.4	29.71	754.7	77.0	25.0	80	w.	9.6	4.3			10	s.		0	0	gloomy	
Belgaum	27.24	691.8	29.80	756.8	70.1	21.2	92	sw.	12.0	5.4			9	w.	sw.	1.21	30.7	showery	
Lahore	28.72	729.5	29.43	747.4	100.2	37.9	38	ne.	3.3	1.5			0			0	0	blue sky	
Roorkee	28.59	726.1	29.45	748.1	93.2	34.0	64	n.	0.8	0.4			5			0	0		
Agra	28.92	734.6	29.47	748.5	92.3	33.5	66	calm	3.5	1.6			3		e.	0.20	5.1	d. clouds	
Nagpur	28.48	723.4	29.50	749.2	88.7	31.5	60	w.	5.4	2.4			5		nw.	0.08	2.0	d. clouds	
Jubbulpore	28.20	716.6	29.54	750.4	79.8	26.6	91	w.	3.6	1.6			10			2.28	57.9	overcast	
Lucknow	29.10	739.0	29.46	748.2	95.0	35.0	51	calm	2.3	1.0			3		wsw.	0	0	d. clouds	
Allahabad	29.13	739.9	29.43	747.6	91.7	33.2	68	ne.	3.9	1.7			7			0	0	d. clouds	
Patna	29.32	744.6	29.50	749.2	91.0	32.8	61	e.	7.4	3.3			6	e.	e.	0	0	d. clouds	
Hazaribagh	27.51	698.8	29.48	748.8	83.6	28.7	72	sse.	8.0	3.6			7			0	0		
Cuttack	29.49	748.9	29.57	751.0	82.9	28.3	81	ssw.	1.9	0.8			10			0.93	23.6	drizzling	
Calcutta, Alipore	29.51	749.5	29.53	750.1	84.4	29.1	77	ssw.	9.0	4.0			8		e.	0.12	3.0	d. clouds	
Dhubri	29.45	748.0	29.56	750.9	82.6	28.1	86	calm	3.2	1.4			9		s.	0.66	16.8	d. clouds	
Chittagong	29.56	750.7	29.65	753.0	79.2	26.2	92	ese.	9.6	4.3			10			0.11	2.8	raining	
Sibsagar	29.26	743.2	29.59	751.6	81.6	27.6	85	ne.	1.7	0.8			10	w.	w.	1.50	38.1	d. clouds	
Jeypore	28.07	712.9	29.46	748.2	93.9	34.4	57	se.	7.7	3.4			4		se.	0.09	2.3	d. clouds	
Zanzibar, Africa	30.08	764.0			82.0	27.8	55	se.	7.8	3.5			5			0	0	d. clouds	
ITALIAN.																			
Udine	29.48	748.9	29.88	759.0	82.6	28.1	55	s.	1.3	0.6			2			0	0		Prof. Giovanni Cloding.
Milan	29.34	745.2	29.84	757.8	82.0	27.8	57	se.	5.0	2.5			7			0	0		Prof. Schiaparelli.
Padua	29.74	755.4	29.85	758.1	82.4	28.0	53	ese.	1.3	0.6			3	s.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.95	735.2	29.82	757.3	73.4	23.0	67	e.	4.3	1.9			10	n.		0.20	0.5		Prof. P. F. Denza.
Genoa	29.68	753.9	29.87	758.6	76.1	24.5	74	se.	13.6	6.1			2	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.95	710.0	29.80	756.9	74.3	23.5	60	w.			2		4	sse.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.79	756.7	29.84	757.9	81.0	27.2	68	e.	1.8	0.8			2			0	0		Prof. Luigi Guidi.
Florence	29.60	751.7	29.84	757.9	91.8	33.2	36	se.			2		8			0	0		Prof. Costantino Pitter
Leghorn	29.74	755.5	29.83	757.6	81.1	27.3	58	s.	4.9	2.2			6			0	0		Prof. P. Monte.
Rome	29.79	756.6	29.96	760.9	89.1	31.7	29	ssw.	19.9	8.9			0			0	0		Prof. P. S. Ferrari.
Lecce	29.74	755.4	29.98	761.5	93.2	34.0	23	s.	7.4	3.3			0			0	0		Prof. C. de Giorgi.
Cosenza	29.13	740.0	29.98	761.5	91.4	33.0	74	ssw.	1.8	0.8			0			0	0		Prof. D. Conti.
Cagliari	29.68	753.8	29.87	758.6	84.0	28.9	61	se.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.77	756.2	30.01	762.2	88.3	31.3	41	ne.	4.3	1.9			4			0	0		Prof. G. Ciacciatore.
Syracuse	29.91	759.8	29.96	760.9	87.8	31.0	53	s.	13.0	5.8			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.50	749.2	29.99	761.8	86.7	30.4	35	n.	4.3	1.9			2	w.		0	0		Prof. T. Brioschi.
Stelvio	22.16	562.8			50.4	10.2	61	w.			8		8			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.24	564.9			50.5	10.3	77	ne.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.99	761.7	30.00	762.0	59.0	15.0	95	e.	31.8	14.2			10		e.	0.285	7.2	covered	
Hiroshima, I. M. Obs'y					70.0	21.1	78	nne.	5.5	2.5		0	2 s			0.120	3.0	clear	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.70	754.4	29.87	758.7	74.1	23.4	77	ssw.	6.6	2.9			10 s			0	0	cloudy	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.70	754.5	29.90	759.5	70.5	21.4	82	s.	1.5	0.7			10 s			0.060	1.5	overcast	S. Takehayashi.
Nemuro	30.23	767.8	30.30	769.6	54.0	12.2	93	se.	6.0	2.7		10	0			0	0	cloudy	
Niigata	29.81	757.2	29.84	757.9	71.9	22.2	87	w.	9.0	4.0			10 n			0.130	3.3	light rain	M. Morita.
Nobiru	29.82	757.3	29.83	757.8	66.5	19.2	100	sse.	8.4	3.8			10 n			1.875	47.6	rainy	H. Midzushima.
Osaka	29.88	758.9	29.89	759.2	74.1	23.4	78	w.	5.0	2.2		2 c	5 s			0	0	fair	
Supporo					57.7	14.3	94	s.	8.4	3.8			10					raining	
Tokei Obs'y, Yeddo	29.75	755.6	29.83	757.7	73.5	23.1	80	ssw.	13.6	6.1			10 s			0.025	0.6	cloudy	The Staff.
Wakayama	29.84	757.9	29.89	759.2	74.8	23.8	84	calm	0	0			10			0.014	0.3	cloudy	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	30.00	762.0	30.19	766.8	72.2	22.3	69	se.	18.5	8.3		1 ck	1 k			0.06	1.5	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	602.9	29.96	760.9	59.0	15.0	99	ese.				0	6 kn		wnw.	0.906	23.0	fair	Prof. Vicente Fernandez.
Leon	24.38	619.2	30.01	762.2	62.2	16.8	85	nw.			1	5 c	0	ne.		inap.	inap.	½ cloudy	Prof. M. Leal.
Mazatlan	29.76	755.9	30.02	762.5	78.0	25.6	95	ene.	5.3	2.2			9 n		ne.	0	0	threatening	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	587.0	30.18	766.6	54.7	12.6	84	calm	0	0		1 c	1 k			0	0	clear	The Staff.
Morelia	24.26	616.3	30.34	770.5	60.1	15.6	53	ne.			1	1	1	s.	s.	0.178	4.5	clear	M. Tena, M. D
Orizaba	26.04	661.5	29.98	761.4	66.4	19.1	68	s.	15.5	6.9		1	0	e.		0	0	clear	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.98	609.2	29.93	760.3	62.6	17.0	82	calm			0	2 cs	0	se.		0	0	clear	M. V. de Leon, M. E
Puebla, Catholic Institute	23.46	595.9	30.20	767.1	53.6	12.0	94	calm	0	0		0	0			0.059	1.5	clear	Prof. P. Spina.
San Luis Potosi	24.25	615.9	30.19	766.6	71.0	21.7	63	w.					10		e.	0.138	3.5	covered	G. Barroeta, M. D.
Zacatecas	22.60	574.0	30.20?	760.8?	61.8	16.0	85	sw.	7.3	3.2		0	0			0.100	2.6	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.59	751.6	29.59	751.6	68.0	20.0		s.			3					0.311	7.9		
Groningen	29.54	750.4	29.60	751.8	67.5	19.7		w.			3					0.024	0.6		
Helder	29.58	751.3	29.58	751.3	62.8	17.1		sw.			4					0.193	4.9		
Hellevoetsluis	29.59	751.5	29.59	751.5	68.9	20.5	73	s.			1					0.146	3.7		
Utrecht	29.50	750.8	29.61	752.0	69.4	20.8	61	s.			3		5			0.059	1.5	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.38	746.3	29.45	747.9	65.8	18.8	51	sse.	13	6			2			0.031	0.8		
Brono	29.62	752.4	29.66	753.4	68.4	20.2	33	se.	18	8			5			0	0		
Christiania	29.42	747.3	29.56	750.9	64.6	18.1	71	ssw.	7	3			5			0.807	20.5		
Gjæsvær	29.89	759.3	29.92	759.9	68.9	20.5		se.			6		0						
Lodingen	29.74	755.4	29.79	756.6	64.9	18.3	48	sse.			2		0			0	0		
PORTUGUESE.																			
Angra, Azores					68.4	20.2	71	n.	13.6	6.1			3			0	0		Dr. J. A. Sampaio.
Campo Major	28.89	733.9	29.88	759.0	63.0	17.2	67	ssw.	4.3	1.9			10			0.079	2.0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.01	762.2	30.10	764.4	73.8	23.2	77	se.	4.3	1.9			3			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.55	750.5	29.90	759.5	61.2	16.2	90	sw.	12.5	5.6			10			0.150	3.8	raining	The Staff.
Ponta Delgada, Azores	30.17	766.2	30.24	768.0	70.2	21.2	58	ne.	13.6	6.1			4			0.051	1.3		
Saint Paul de Loando	29.92	760.0	30.13	765.2	73.8	23.2	72	nw.	0.7	0.3			1	sse.		0	0		
Serra da Estrella	25.13	638.2	29.85	758.2	46.4	8.0	98	w.	7.4	3.3			10			0.697	17.7	rain and fog.	
RUSSIAN.																			
Akmolinski	28.50	723.9	29.50	749.4	81.1	27.3	40	w.	11	5		0	3 k			0	0		Major K. Lasarew.
Archangel	29.76	756.0	29.78	756.5	61.7	16.5	43	nne.	4	2		0	0			0	0		Capt. Sselliwerstow.
Astrakhan	29.88	759.0	29.80	756.9	82.0	27.8	41	wnw.	25	11			10 s; n			blank	blank		Capt. Wisganow.
Barnaul	29.11	739.4	29.58	751.3	75.7	24.3	62	se.	4	2			10			0	0		Meteorological Obs'y.
Dorpat	29.50	749.2	29.73	755.1	68.0	20.0	54	ne.	7	3		0	8 k			0.008	0.2		Observatory.
Ekaterinburg	28.52	724.3	29.45	748.0	57.7	14.3	60	wsw.	18	8			10			0.047	1.2		Meteorological Obs'y.
Irkutsk	28.19	716.0	29.76	755.9	67.5	19.7	80	nw.	9	4			9 ks; s			0.634	16.1		
Kasan	29.22	742.3	29.48	748.9	63.3	17.4	56	w.	18	8			10 ks			0.094	2.4		Observatory.
Kertch	29.94	760.5	29.96	761.0	80.2	26.8	62	se.	9	4		0	3 s			0	0		Lagorio & Sastyres.
Kieff	29.18	741.2	29.78	756.3	81.3	27.4	48	sse.	7	3		ck; cs	4 ks			0	0		Observatory.
Lugan	29.61	752.2	29.81	757.2	78.8	26.0	40	wsw.	34	15			0			0	0		Meteorological Obs'y
Moscow	29.15	740.5	29.61	752.0	65.8	18.8	41	ese.	7.8	3.5			7 ks						Meteorological Obs'y.
Nikolaiev	29.87	758.8	29.95	760.6	88.7	31.5	39	sw.	18	8		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.62	752.4	29.76	756.0	78.3	25.7	69	se.	7	3			10 n			0.177	4.5	thun'rst'rm	Physical Observatory
St. Petersburg	29.72	754.8	29.73	755.2	55.8	13.2	77	n.	7	3			10 n			0.028	0.7		Central Physical Obs'y
Semipalatinsk	28.98	736.1	29.60	751.7	78.4	25.8	55	nw.	4	2			10			0.020	0.5		Major Lasarew.
Tashkend, Laboratory	28.11	714.0	29.54	750.4	95.0	35.0	35	calm	0	0			0			0	0		Telch, A. M.
Tiflis	28.55	725.2	29.88	758.9	90.1	32.3	35	calm	0	0		0	6 ks			0	0		Physical Observatory
Vladivostock	29.81	757.2	29.88	758.9	65.8	18.8	70	calm	0	0			10 k						
Warsaw	29.32	744.6	29.72	754.8	74.3	23.5	60	n.	4	2			10 ks						Astronomical Obs'y
Wilna	29.34	745.2	29.75	755.6	63.3	17.4	90	sse.	7	3			10			0.004	0.1	hv'y clouds	Berg, Assistant.
Yeniseisk	29.64	752.9	29.92	759.9	67.6	19.8	88	calm	0	0			2			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.57	751.0	29.67	753.6	83.8	28.8	55	sw.	7.4	3.3			0						Antonio Rave, Director.
Bilbao, Met. Obs'y	29.76	756.0	29.82	757.5	74.8	23.8	55	n.	3.1	1.4		3	2	ne.		0.272	6.9	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.93	683.9	29.82	757.3	59.0	15.0	78	sw.	11.2	5.0			8			0.886	22.5	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.66	702.6	29.84	757.8	66.2	19.0	56	sw.	17.4	7.8			10			0.008	0.2	covered	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director.
Santiago, Met. Obs'y	28.85	732.7	29.72	754.9	62.8	17.1	78	sw.	15.0	6.7			9			0.866	22.0	almost cov'd	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.																			Benito Vines, S. J.
Manila, Philippine Islands	29.80	756.8	29.85	758.3	80.4	26.9	84	ne.	4.4	2.0		0	1 ks			0.543	13.8	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.90	759.4	29.99	761.8	73.2	22.9	69	sw.	7.5	3.4			10		sw.	0.006	0.2		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.05	763.2	30.14	765.5	81.7	27.6	79	se.	2.2	1.0		1 s	2 kn	se.	se.	0	0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.72	754.9	29.85	758.2	81.2	27.3	83	nw.	2.7	1.2		0	1 s			0	0	clear	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.83	757.6	29.87	758.6	65.5	18.6	44	se.			2		0			0	0		
Umea	29.76	755.8	29.81	757.1	66.9	19.4	47	e.			6		6			0	0		
Hernosand	29.73	755.1	29.78	756.4	59.4	15.2	66	ene.			2		8			0	0		
Stockholm	29.51	749.5	29.69	754.0	63.3	17.4	78	se.			4		10			0.020	0.5		
Wisby	29.59	751.5	29.65	753.0	61.5	16.4	87	nne.			2		3			0.205	5.2		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Swedish—Continued.																			
Sub-series.																			
Upsala	29.56	750.9	29.65	753.1	62.8	17.1	83	se.	9.2	4.1			10		s.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.33	719.5	29.73	755.1	62.4	16.9	78	n.			2					0.130	3.3	covered	The Observatory
Scottish.																			
Monach Lt			29.29	744.0	63	17.2	94	sw.			3	3	0	sw.		0	0	d. clouds	J. Youngclause.
North Unst			29.34	745.2				se.			4		10					foggy	
Turkish.																			
Constantinople			30.03	762.7	85.5	29.7	30	ne.	8.9	4.0			0			0	0		The Observatory.
Valona			30.17	766.2	90.5	32.5		s.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.78	756.4	82.0	27.8	66	w.			1	0	0			0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.98	761.5	30.06	763.5	71	21.7	71	s.	5	2.2		7 cs	0			0	0	fair	J. O. Barnes.
Alpena, Michigan	29.25	742.9	29.89	759.2	62	16.7	93	se.	4	1.8		3 k	5 ks	sw.	sw.	0.03	0.8	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	24.98	634.5	29.72	754.9	59	15.0	84	e.	3	1.3		0	6 s		calm	0.01	0.3	fair	W. O. Barnes.
Assinnaboine, Ft., Montana	27.05	687.1	29.78	756.4	53	11.7	69	sw.	7	3.1			10 s		sw.	0.14	3.6	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.95	735.3	30.10	764.5	70.0	21.1	73	se.	6	2.7		10 k	0	w.		0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.12	765.0	30.13	765.3	68.8	20.4	90	s.	9	4.0		9 ck	0	calm		0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.97	761.2	30.10	766.1	72.0	22.2	73	calm	0	0		6 ck	0	w.		0	0	fair	John Healy.
Baltimore, Maryland	30.08	764.0	30.13	765.3	69	20.6	78	s.	4	1.8		9 ck	hz.	w.		0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.11	764.8	30.13	765.3	72.3	22.4	83	sw.	9	4.0		7 ck	0			0	0	fair	G. A. Hill.
Bennett, Fort, Dakota	28.08	713.2	29.62	752.3	67	19.4	90	se.	14	6.3		5 k	4 s	se.	se.	0.35	8.9	cloudy	A. Pritchard.
Benton, Fort, Montana	27.09	688.1	29.80	756.9	54	12.2	50	w.	2	0.9			10 s			0.02	0.5	cloudy	G. W. Davis.
Behring Island, Behring Sea	30.01	762.2	30.03	762.7	46.5	8.1		s.	12	5.4		1 cs	1 s			0	0	clear	Dr. L. Steineger.
Bismarck, Dakota	27.92	709.2	29.64	752.8	68	20.0	76	e.	6	2.7			10 s		sw.	0.03	0.8	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.08	764.0	30.11	764.8	67.8	19.9	84	w.	10	4.5		3 c	0	w.		0	0	clear	J. T. Elker.
Boise City, Idaho	27.25	692.1	29.97	761.2	57	13.9	64	w.	4	1.8		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.90	759.4	30.05	763.3	70.0	21.1	57	w.	7	3.1		7 c	0	w.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.82	757.4	29.86	758.4	79.9	26.6	88	se.	6	2.7		3 c	2 s	calm	se.	0	0	fair	M. McCarty.
Buffalo, New York	29.25	742.9	29.98	761.5	67.8	19.9	71	s.	7	3.1			10 s		sw.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.79	705.9	29.73	755.1	57	13.9	77	w.	6	2.7		3 k	0	w.		0.67	17.0	clear	A. H. Bell.
Burlington, Vermont	29.72	754.9	30.00	762.0	68.0	20.0	70	s.	9	4.0		8 ck	0	w.		0	0	cloudy	G. O. Schaeffer.
Cairo, Illinois	29.61	752.1	30.00	762.0	70.7	21.5	86	sw.	12	5.4			10 s		sw.	inap.	inap.	threatening	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.10	688.3	29.69	754.1	75.5	24.2	63	s.			1	3 cs	1 k	w.	w.	0	0	fair	J. T. Fitzgerald.
Cape Henry, Virginia	30.15	765.8	30.17	766.3	71	21.7	90	s.	4	1.8		2 ck	6 s			0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.10	764.5	30.13	765.3	69.0	20.6	90	s.	12	5.4		8 k	0	sw.		0	0	cloudy	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.09	764.3	30.11	764.8	77	25.0	90	e.	6	2.7			10 ks		s.	0.65	16.5	cloudy	F. W. Mixer.
Champaign, Illinois	29.08	738.6	29.87	758.7	67.9	19.9	90	sw.	8	3.6			10 s		sw.	0.25	6.3	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.08	764.0	30.13	765.3	76	24.4	74	ne.	3	1.3		5 ck	4 s	ne.	ne.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.28	743.7	30.11	764.8	72.0	22.2	62	sw.	3	1.3		10 cs	0	w.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.30	744.2	30.10	764.5	68.0	20.0	93	calm	0	0			10 ks;fg		s.	0.05	1.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	23.96	608.6	29.66	753.4	62.5	16.9	60	nw.	2	0.9			10 n		nw.	inap.	inap.	light rain	E. McGovern.
Chicago, Illinois	29.14	740.1	29.83	757.7	66.3	19.1	92	sw.	4	1.8			10 k		sw.	0.29	7.4	cloudy	J. Mitchell.
Chincoteague, Virginia	30.13	765.3	30.15	765.8	71	21.7	90	s.	5	2.2		9 cs	0	w.		0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.34	745.2	29.98	761.5	67	19.4	84	s.	5	2.2			10 s		s.	0.73	18.5	cloudy	J. F. Harrold.
Cleveland, Ohio	29.26	743.2	29.98	761.5	64.8	18.2	84	s.	3	1.3			10 n		sw.	0.07	1.8	light rain	J. B. Newlin.
Coleman City, Texas	28.10	713.7	29.86	758.4	74	23.3	90	se.	12	5.4			10 n		se.	0.11	2.8	light rain	L. Dorman.
Columbus, Ohio	29.14	740.1	29.97	761.2	64	17.8	90	sw.	8	3.6			10 n		sw.	0.12	3.0	light rain	D. Cuthbertson.
Concho, Texas	27.95	709.9	29.83	757.7	78	25.5	67	s.	8	3.6			10 s		s.	0	0	cloudy	W. W. McConihe.
Custer, Fort, Montana	26.66	677.1	29.68	753.9	58	14.4	84	n.	3	1.3		0	7 n		calm	0.05	1.3	light rain	V. Verge.
Davenport, Iowa	29.24	742.7	29.87	758.7	68	20.0	90	nw.	3	1.3		2 k	0	nw.		0.13	3.3	clear	R. R. Martin.
Davis, Fort, Texas	25.10	637.5	29.74	755.4	73	22.8	82	s.	4	1.8		0	8 ks			0.05	1.3	cloudy	J. Williams.
Dayton, Washington T'y	28.38	720.8	30.08	764.0	45.3	7.4	82	sw.	5	2.2		5 k	2 s	ne.	sw.	0.15	3.8	fair	H. Clifford.
Deadwood, Dakota	25.19	639.8	29.61	752.1	60.0	15.6	72	w.	2	0.9		1 k	0	sw.		0.01	0.3	clear	G. W. Scott.
Decatur, Texas					74	23.3	85	se.	12	5.4			10 n		s.	0.36	9.1	light rain	D. J. Carr.
Delaware Breakwater, Del.	30.11	764.8	30.13	765.3	69	20.6	84	sw.	8	3.6		5 ck	3 s	sw.	sw.	0	0	cloudy	A. Schneider.
Denison, Texas	29.10	739.1	29.88	758.9	77.4	25.2	82	sw.	10	4.5			10 s			0.02	0.5	cloudy	J. McGlone.
Denver, Colorado	24.64	625.8	29.65	753.1	68.0	20.0	59	nw.	4	1.8		6 ck	0	w.		0.01	0.3	fair	F. M. Neal.
Des Moines, Iowa	29.02	737.1	29.90	759.4	63	17.2	93	calm	0	0			fg.			0	0	dense fog	F. W. Conrad.
Detroit, Michigan	29.24	742.7	29.93	760.2	67.0	19.4	84	se.	9	4.0			10 n		s.	0.04	1.0	light rain	C. F. R. Wappenhans.
Dodge City, Kansas	27.26	692.4	29.76	755.9	69.0	20.6	61	s.	3	1.3		2 c	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.18	741.2	29.87	758.7	64.2	17.9	93	nw.	2	0.9			fg.			0.05	1.3	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.17	740.9	29.89	759.2	53	11.7	93	calm	0	0			fg.			0	0	dense fog	N. B. Conger.
Eagle Pass, Texas	29.08	738.6	29.88	758.9	80.0	26.7	62	se.	3	1.3		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.21	640.3	29.76	755.9	42	5.6	62	sw.	18	8.0		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.89	759.2	29.95	760.7	56.0	13.3	80	sw.	2	0.9		4 c	5 s	w.		0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.09	688.1	29.73	755.1	66	18.9	84	ne.	1	0.4		6 c	0	ne.		0	0	fair	W. J. Cundall.
El Paso, Texas	26.16	664.5	29.76	755.9	77	25.0	62	nw.	2	0.9		0	4 s			0	0	fair	J. F. Marshall.
Erie, Pennsylvania	29.27	743.4	29.98	761.5	69	20.6	70	s.	5	2.2		10 cs	0			0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.21	741.9	29.85	758.2	59	15.0	93	n.	3	1.3			10 s			0.30	7.6	cloudy	C. Dill.
Fredericksburg, Texas	28.20	716.3	29.90	759.4	73	22.8	84	s.	5	2.2		10 cs	0			0	0	cloudy	H. S. Miles.
Galveston, Texas	29.92	760.0	29.97	761.2	83	28.3	82	s.	12	5.4		2 c	3 k		s.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.20	741.7	29.85	758.2	64.0	17.8	93	s.	4	1.8			fg			1.50	38.1	dense fog	W. A. Reid.
Grant, Fort, Arizona	25.20	640.1	29.77	756.1	70.9	21.6	46	nw.	4	1.8		0	1 s			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.14	765.5	30.16	766.1	75.0	23.9	76	e.	6	2.7		7 c	hz.	sw.		0	0	fair	R. M. Crawford.
Helena, Montana	25.75	654.0	29.81	757.2	49	9.4	52	w.	8	3.6		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	28.89	733.8	29.87	758.7	79.0	26.1	74	s.	22	9.8			10 s			0	0	cloudy	J. W. Byram.
Huron, Dakota	28.41	721.6	29.73	755.1	64.1	17.8	93	se.	8	3.6			10 n			0.30	7.6	light rain	S. W. Glenn.
Indianapolis, Indiana	29.11	740.1	29.91	759.7	67.5	19.7	88	s.	5	2.2			10 n		s.	0.01	0.3	light rain	O. Schutze
Indianola, Texas	29.89	759.2	29.92	760.0	80.8	27.1	88	s.	8	3.6		3 cs	2 k	w.	s.	0.02	0.5	fair	I. A. Reed.
Jacksboro, Texas	28.72	729.5	29.84	757.9	74	23.3	100	se.	14	6.3			10 n		se.	0.04	1.0	light rain	J. P. Sherry.
Jacksonville, Florida	30.08	764.0	30.12	765.0	79	26.1	77	ne.	1	0.4		6 cs	0	w		0	0	fair	J. W. Smith.
Keogh, Fort, Montana	27.27	692.6	29.68	753.9	60	15.6	84	nw.	6	2.7		5 cs	0	se.		0	0	fair	W. B. Stockman.
Keokuk, Iowa	29.22	742.2	29.85	758.2	69.0	20.6	84	calm	0	0			fg.			0.03	0.8	dense fog	F. Z. Gosewisch
Key West, Florida	30.07	763.8	30.09	764.3	87.0	30.6	61	se.	7	3.1		3 ck	0	se.		0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.14	765.5	30.16	766.1	73.0	22.8	84	se.	8	3.6		4 ck	2 s	e.	se.	0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.10	739.1	30.10	764.5	65.3	18.5	98	ne.	4	1.8		6 k	4 s	sw.	ne.	0.09	2.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.11	739.4	29.86	758.4	67.6	19.8	84	calm	0	0			10 s			0.04	1.3	cloudy	S. C. Emery
La Mesilla, New Mexico	26.03	661.2	29.77	756.1	68.7	20.4	64	calm	0	0		4 c	3 s			0	0	fair	N. D. Lane.
Leavenworth, Kansas	29.00	736.6	29.86	758.4	70	21.1	84	calm	0	0			10 s			0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.27	743.4	30.08	764.0	49.0	9.4	71	e.	2	0.9		5 cs	0	n.		0.04	1.0	fair	W. Bell.
Little Rock, Arkansas	29.67	753.6	29.98	761.5	70	21.1	93	s.	1	0.4		0	6 s		sw.	0.07	1.8	fair	W. U. Simons.
Los Angeles, California	29.56	750.8	29.95	760.7	61.3	16.3	78	s.	5	2.2			10 s			0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.41	747.0	29.96	761.0	67	19.4	90	s.	5	2.2			10 s			1.28	32.5	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.44	747.8	30.10	764.5	68.0	20.0	73	s.	1	0.4		8 ck	0			0	0	cloudy	W. R. Bushby.
Macon, Fort, North Carolina	30.13	765.3	30.14	765.5	76	24.4	76	ne.	4	1.8		8ck;cs	0			0	0	cloudy	F. P. Chaffee.
Madison, Wisconsin	28.87	733.3	29.85	758.2	64	17.8	93	n.	5	2.2		0	10 s		n.	0.20	5.1	cloudy	C. A. Shaw.
Maginnis, Fort, Montana																			H. W. Dodge.
McKavett, Fort, Texas	27.72	704.1	29.92	760.0	78	25.6	82	s.	5	2.2			10 n		w.	0.02	0.5	light rain	J. E. Thatcher.
Marquette, Michigan	29.19	741.4	29.90	759.4	55	12.8	93	n.	5	2.2			10 s		calm	0.06	1.5	cloudy	J. Gilligan.
Memphis, Tennessee	29.68	753.9	30.01	762.2	74	23.3	71	calm	0	0			10 s			0.20	5.1	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.11	739.4	29.84	757.9	63	17.2	93	n.	6	2.7			fg.			0.30	7.6	dense fog	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.72	678.7	29.91	759.7	48	8.9	58	nw.	6	2.7		9 k	0	w.		0	0	cloudy	J. H. Jones.
Mobile, Alabama	30.05	763.3	30.09	764.3	73.5	23.1	90	n.	3	1.3			10 n		nw.	0.01	0.3	light rain	C. A. Read.
Montgomery, Alabama	29.85	758.2	30.07	763.8	74.0	23.3	76	calm	0	0			10 s		w.	0.01	0.3	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.80	731.5	29.76	755.9	60	15.6	75	s.	4	1.8			10 s			0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.08	738.6	30.08	764.0	63.0	17.2	90	calm	0	0			10 s		sw.	0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.94	608.1	30.01	762.2	45.0	7.2	86	nw.	30	13.4		8 cs	0	nw.		0	0	cloudy	J. G. Linsley.
Nashville, Tennessee	29.49	749.0	30.01	762.2	70.5	21.4	71	sw.	4	1.8			10 ks		w.	inap.	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.98	761.5	30.09	764.3	68	20.0	73	sw.	4	1.8		8 c	hz.			0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.06	763.5	30.11	764.8	70	21.1	76	sw.	4	1.8		2 c	0	se.		0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.03	762.7	79.5	26.4	81	s.	1	0.4		2 cs	8 s		s.	0.01	0.3	cloudy	L. Dunne.
Newport, Rhode Island	30.05	763.3	30.10	764.5	69.8	21.0	74	sw.	5	2.2		3 c	1 s	e.		0	0	fair	W. McGillivray.
New York, New York	29.95	760.7	30.12	765.0	65.5	18.6	90	sw.	7	3.1		5 cs	0	w.		0	0	fair	J. B. Merrill.
Norfolk, Virginia	30.13	765.3	30.16	766.1	72	22.2	84	s.	3	1.3			10 ks		sw	0	0	cloudy	H. L. Kemp.
North Platte, Nebraska	26.89	683.0	29.69	754.1	70.6	21.4	74	s.	8	3.6		0	1 s			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.15	765.8	30.19	766.8	42.0	5.6	82	s.	3	1.3		0	0			0.02	0.5	clear	J. Dascomb.
Oogiaamie, Pt. Barrow, Alas.	29.56	750.8	29.57	751.1	36.4	2.4	92	ene.	12	5.4		2 c	2 s			0	0	fair	P. H. Ray.
Omaha, Nebraska	28.73	729.7	29.86	758.4	77.5	25.3	57	e.	2	0.9		0	0			0	0	clear	A. Pollak.
Oswego, New York	29.67	753.6	29.99	761.7	69.8	21.0	67	s.	4	1.8			10 s		w.	0	0	cloudy	S. W. Beall.
Palestine, Texas	29.43	747.5	29.97	761.2	77.5	25.3	90	sw.	10	4.5			10 ks		sw.	0.03	0.8	cloudy	L. M. Pindell.
Pensacola, Florida	30.05	763.3	30.08	764.0	74.1	23.4	82	se	2	0.9			10 s		sw.	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	30.03	762.7	30.13	765.3	69	20.6	84	sw.	4	1.8		10ok;cs	0	s.		0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.93	455.4	29.71	754.6	38	3.3	86	w.	15	6.7		0	8 ks		w.	0	0	cloudy	L. M. Dey.
Pioche, Nevada	23.94	608.1	29.67	753.6	60.4	15.8	39	nw.	4	1.8		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.24	742.7	30.02	762.5	66.0	18.9	73	s.	7	3.1			10 s		sw.	0	0	cloudy	J. H. Bryce.
Poplar River, Montana	27.64	702.0						se.			1	7 k	0	se.		0.17	4.3	cloudy	W. D. Maxwell.
Port Eads, Louisiana	30.06	763.5	30.07	763.8	81.0	27.2	82	sw.	5	2.2		hz.	2 ks		sw.	0	0	clear	M. Hermann.
Port Huron, Michigan	29.26	743.2	29.92	760.0	63.5	17.5	90	s.	8	3.6			10 n			inap.	inap.	light rain	W. O. Bailey.
Portland, Maine	29.95	760.7	30.00	762.0	66.5	19.2	69	w.	5	2.2		3 cs	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.16	766.1	30.23	767.8	54.0	12.2	74	s.	4	1.8			10 s		s.	inap.	inap.	cloudy	M. L. Hearne.
Prescott, Arizona	24.75	628.6	29.74	755.4	61	16.1	84	s.	3	1.3		0	0			0.02	0.5	clear	J. McN. Wright.
Provincetown, Mass.	30.04	763.0	30.07	763.8	68.0	20.0	70	sw.	8	3.6		4 cs	0	w.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.09	764.3	30.10	764.5	80.5	26.9	79	e.	4	1.8		5 c	2 ks	calm	calm	0	0	fair	W. J. Evans.
Red Bluff, California	29.55	750.6	29.91	759.7	66.0	18.9	35	n.	14	6.3		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.64	752.8	29.87	758.7	81	27.2	74	se.	8	3.6		0	2 ks		se.	0	0	clear	P. M. Wilson.
Rochester, New York	29.35	745.5	30.00	762.0	65	18.3	78	sw.	9	4.0		7 k	sk.	w.		0	0	fair	E. W. McGann.
Roseburg, Oregon	29.66	753.4	30.20	767.1	43	6.1	83	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.76	755.9	29.82	757.4	70.0	21.1	36	nw.	20	8.9		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.33	745.0	29.91	759.7	71.0	21.7	97	sw.	3	1.3			10 s		w.	inap.	inap.	cloudy	J. H. Webber.
St. Paul, Minnesota	29.01	736.8	29.85	758.2	61	16.1	93	calm	0	0			fg.			0.01	0.3	dense fog	P. F. Lyons.
St. Vincent, Minnesota	28.92	734.6	29.76	755.9	59	15.0	87	se.	5	2.2		4ck;cs	4 s	w.		0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.52	648.2	29.70	754.4	61	16.1	52	ne.	4	1.8		3 k	0	sw.		0.09	2.3	clear	J. Craig.
San Antonio, Texas	29.22	742.2	29.90	759.4	79.0	26.1	82	se.	6	2.7		4 cs	4 ks		s.	0	0	cloudy	T. J. Kenan.
San Diego, California	29.83	757.7	29.90	759.4	63.4	17.4	72	sw.	8	3.6			fg.		sw.	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.26	743.2	29.92	760.0	65.3	18.5	93	s.	8	3.6			10 s			0.24	6.1	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.09	764.3	30.12	765.0	69.0	20.6	78	sw.	7	3.1		8 k	0	sw.		0	0	cloudy	B. A. Blandon.
San Francisco, California	29.82	757.4	29.89	759.2	55	12.8	80	calm	0	0		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.23	590.0	29.73	755.1	62	16.7	67	se.	1	0.4		2 k	0			inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	30.04	763.0	30.13	765.3	76	24.4	76	se.	3	1.3		10c;ck	0			0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.28	667.5	29.80	756.9	47	8.3	52	sw.	13	5.8		4 cs	0	sw.		0.04	1.0	fair	A. L. Mathews.
Shreveport, Louisiana	29.74	755.4	29.97	761.2	78	25.6	90	s.	3	1.3			10 s		s.	0.01	0.3	threatening.	E. N. Meekins.
Sill, Fort, Indian Territory	28.61	726.7	29.81	757.2	80.3	26.8	68	s.	20	8.9		9 k	0	s.		0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.29	617.0	29.75	755.6	62	16.7	47	calm	0	0		2 k	0	nw.		0	0	clear	J. B. Wallace.
Sitka, Alaska	29.76	755.9	29.82	757.4	51	10.6	80	se.	5	2.2			10 n		se.	0.19	4.8	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.45	748.0	29.91	759.7	75.5	24.2	85	e.	6	2.7		6 cs	0	e.		0	0	fair	J. B. Campbell.
Smithville, North Carolina	30.10	764.5	30.13	765.3	77	25.0	69	n.	5	2.2		7 os	0	w.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.01	711.4	29.99	761.7	47	8.3	77	sw.	7	3.1			10 s		sw.	0.02	0.5	cloudy	D. Moore.
Springfield, Illinois	29.22	742.2	29.88	758.9	68.5	20.3	97	w.	4	1.8			10s;fg		w.	0.09	2.3	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.96	761.0	30.09	764.3	72.0	22.2	76	s.	3	1.3		4 c	0	w.		0	0	fair	T. S. Outram.
Springfield, Mo.	28.52	724.4	29.91	759.7	73	22.8	90	s.	6	2.7		0	8 k		s.	inap.	inap.	cloudy	J. B. Marbury.
Starkville, Miss.	29.59	751.6	30.06	763.5	76	24.4	82	se.	4	1.8			10 s		s.	0.04	1.0	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	27.88	708.1	29.66	753.4	67	19.4	75	se.	3	1.3			10 s		w.	0	0	cloudy	W. Burrows.
Stockton, Fort, Texas	26.89	683.0	29.83	757.7	74.5	23.6	68	calm	0	0			10 s		calm	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	30.00	762.0	30.05	763.3	65.3	18.5	84	s.	8	3.6		5 cs	0			0	0	fair	G. Liebmann.
Toledo, Ohio	29.23	742.4	29.90	759.4	67	19.4	84	s.	8	3.6			10s;fg		sw.	0.14	3.6	cloudy	A. Buell.
Tucson, Arizona	27.45	697.2	29.77	756.1	80	26.7	52	se.	5	2.2		3 cs	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.80	756.9	30.16	766.1	51	10.6	66	sw.	16	7.2		2 ck	0	nw.		0	0	clear	J. Daly.
Uvalde, Texas	28.92	734.6	29.86	758.4	77	25.0	82	se.	2	0.9		10 cs	0	e.		0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona					70.2	21.2	66	se.			1	6 cs	0	s.		0.09	2.3	fair	D. Brooks.
Vicksburg, Mississippi	29.78	756.4	30.02	762.5	71	21.7	100	se.	2	0.9			10 n			0.13	3.3	light rain	H. P. Brisbane.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.33	618.0	29.66	753.4	51.8	11.0	78	w.	4	1.8			9 k		w.	0.06	1.5	cloudy	T. M. Ambler.
Washington, D. C.	30.01	762.2	30.12	765.0	69.6	20.9	88	s.	3	1.3		7 ck	2 s	w.	s.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	25.87	657.1	29.63	752.6	69.8	21.0	70	e.	2	0.9		0	0			0	0	clear	F. W. Brandenburg.
Williamsport, Pa.	29.48	748.8	30.06	763.5	64	17.8	81	calm	0	0			10 ks			0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.10	764.5	30.15	765.8	76	24.4	76	ne.	3	1.3		6 ck	0	w.		0	0	fair	A. T. Sherwood.
Winnemucca, Nevada	25.67	652.0	29.89	759.2	47.5	8.6	36	n.	6	2.7		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.57	725.7	29.84	757.9	65	18.3	78	e.	6	2.7			10 ks			0	0	cloudy	J. H. Attield.
Yuma, Arizona	29.53	750.0	29.67	753.6	79.4	26.3	03	sw.	4	1.8		1 c	2 s			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.09	561.1			54.0	12.2	77	s.	10	4.5		2 ck	4 sk;s		w.	0.23	5.8	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.10	764.5	30.11	764.8	80	26.7	95	ne.				10 k	10 ks			0	0	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.01	762.2	78	25.6	90	calm	0	0			10 ks		calm	0	0	cloudy	J. I. Plume.
Kingston, Jamaica, W. I.	30.08	764.0	30.09	764.3	84.8	29.3	73	e.	5	2.2		6 c;cs	0	ne.		0	0	fair	Robert Johnston.
Magua, San Domingo, W. I					72	22.2		calm			0	1 ks	0	se.		0	0		S. M. Pike.
Navassa	29.96	761.0	30.04	763.0	81	27.2	76	e.	13	5.8		3 k	4 s	se.	se.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.14	765.5	30.14	765.5	77	25.0	86	se.			2	3 c	0	e.		0.300	7.6	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.37	746.0	29.93	760.2	77	25.0	89	calm			0	3 c	0	calm		0	0	clear	Francisco J. Olsneros.
Rivas, Nicaragua, C. A.							94	ne.			3	0	8 ks		ne.	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.08	764.0	30.11	764.0	80	26.7	78	calm	0	0		2 cs	0			0	0	fair	Robert Mason.
York Factory, B. A.	29.98	761.5	30.04	763.0	60.0	15.6	82	nw.	13	4.5		2 k	1 s	nw.	nw.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, S. 24° 26′ E. 5° 19′	30.36	771.1	65.5	18.6	73	ese.			4-5		9							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.85	758.2	79.5	26.4	80	nw.			3		0					2		blue sky.
H. M. S. Amethyst, Montevideo, Uruguay	30.03	762.7	57.5	14.2	90	se.			1		3	s.					nw.	d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	30.01	762.2	77	25.0		n.			3									blue sky.
H. M. S. Bacchante, N. 39° 30′ E 0° 04′	29.76	755.9	84	28.9	61	wsw.			3		3	wnw.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.26	768.6	58	14.4		w.			2		6	w.						squally.
H. M. S. Champion, N. 24° 45′, E. 152° 40′			82	27.8	100	ne.			4		3					4		d. clouds.
H. M. S. Comus, N. 43° 44′, E. 147° 55′	30.24	768.1	53	11.7	93	ene.			2		10					2	e.	misty.
H. M. S. Diamond, S 4° 13′, E. 152° 11′	29.85	758.2	84	28.9	83	s.			1-2		9	w.					e.	d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.16	766.1	77	25.0		ne.			3		6	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.24	768.1	76	24.4	86	sse.			1-2		6	sse.						d. clouds.
H. M. S. Eclipse, S. 12° 00′, E. 40° 45′	30.10	764.5	75	23.9		sse.			1-2		3							d. clouds.
H. M. S. Emerald, S. 16° 00′, W. 17° 20′	30.30	769.6	70	21.1	100	e.			3-4		4	ese.				2	ese.	d. clouds.
H. M. S. Espiegle, S. 15° 35′ E. 168° 03′	30.02	762.5	75	23.9	90	ese			2-4		3							squally.
H. M. S. Fantome, N. 17° 52′, W. 76° 51′	30.08	764.0	84	28.9		e.			3		5	e.				4	e.	d. clouds.
H. M. S. Fawn, S. 25° 59′, E. 32° 48′	29.90	759.4	72.5	22.5	88	nne.			3		2					3		misty.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.06	763.5	59.5	15.3	84	ese.			1		10							overcast.
H. M. S. Garnet, S. 20° 00′, W. 19° 00′	30.28	769.1	73	22.8	71	ne.			2		10					2	ssw.	overcast.
H. M. S. Griffon, N. 51° 03′, W. 55° 45′	29.78	756.4	51	10.6	86	w.			1		4	w.						d. clouds.
H. M. S. Iris, Port Said, Egypt	29.96	761.0	78	25.6	86	w.			2-3		0					1	wnw.	blue sky.
H. M. S. Iron Duke, N. 41° 30′ E. 141° 50′	30.01	762.2	60	15.6	88	ese.			5-6		10					4	e.	overcast.
H. M. S. Kingfisher, N. 36° 55′, W. 122° 20′	30.01	762.2	54	12.2		nw.			3		5					7	nw.	d. clouds.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.96	761.0	79.3	26.3	98	se.			1		4					1	se.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.00	762.0	51.5	10.8		ne.			1		10							d. clouds.
H. M. S. Magpie, N. 34° 00′, E. 135° 02′	29.90	759.4	74.7	23.7	82	wsw.			1		10					2	s.	misty.
H. M. S. Minotaur, Malta, Mediterranean	30.05	763.3	79.5	26.4	61	s.			1		0							blue sky.
H. M. S. Nelson, S. 36° 50′, E. 174° 49′	29.71	754.6	56	13.3	87	e.			1									overcast.
H. M. S. Northampton, Halifax, Nova Scotia	29.89	759.2	59	15.0	90	calm			0		10							misty.
H. M. S. Orion, N. 50° 19′, W. 2° 47′	29.54	750.3	62	16.7		sw.			3		4	ssw.				3	sw.	misty.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.86	758.4	84.5	29.2	87	calm			0		4	sw.						d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Is d	30.22	767.6	68	20.0	94	se.			2		6	se.						d. clouds.
H. M. S. Rocket, Vancouver Island, B. A.	30.11	764.8	53	11.7	93	wsw.			3		2							squally.
H. M. S. Sappho, S. 22° 45′ W. 140° 00′	30.08	764.0	72.5	22.5		n.			2-4		10	ne.				4	ne.	d. clouds.
H. M. S. Swiftsure, Rio de Janeiro, Brazil	30.35	770.9	71.5	21.9	80	wnw.			1		3							foggy.
H. M. S. Sylvia, Montevideo, Uruguay	30.12	765.0	53.5	11.9	90	se.			2		3	calm						d. clouds.
H. M. S. Tamar, N. 36° 42′, E. 12° 20′	30.04	763.0	77.5	25.3	86	se.			3		10	ese.				2	ese.	d. clouds.
H. M. S. Tenedos, N. 47° 52′ W. 59° 24′	29.87	758.7	54	12.2	93	calm			0		8							d. clouds.
H. M. S. Thetis, S. 5° 34′, W. 81° 22′	30.00	762.0	62	16.7	94	se.			2		10					2	se.	misty.
H. M. S. Triumph, Talcahuano, Chili	30.09	764.3	50	10.0	93	n.			1		4	nw.						d. clouds.
H. M. S. Woodlark, Off Bassorah, Asiatic Turkey	29.47	748.5	98.5	36.9	41	nw.			3-4		0							misty.
H. M. S. Zephyr, N. 22° 18′, E. 115° 55′	29.79	756.7	84	28.9	100	s.			3		2	n.				1	s.	d. clouds.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.19	766.7	77.9	25.5	89	w.			3		2		w.			2		d. clouds.
Tamega, Macao, China	29.81	757.1	86.0	30.0	79	sw.			4		3							d. clouds.
SWEDISH NAVAL.																		
Saga, N. 63° 03′, E. 5° 27′	29.47	748.5	61.2	16.2	86	ne.			1		3							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	30.02	762.5	74	23.3	81	ne.	3	1.3			10		nne.	0	0			cloudy.
N. Yard, Portsmouth, N. H.	30.06	763.5	69	20.6	70	w.	4	1.8			0			0	0			hazy.
Naval Hospital, Yokohama, Japan*	29.73	755.1	73.5	23.1	85	w.			6		10		sw.	2.19	55.6			gloomy.
Adams, Mare Island, Cal.	29.99	761.7	59	15.0	94	sw.			1		0			0	0	sm'h		clear.
Alaska, Callao, Peru	29.97	761.2	60	15.6	88	calm			0		10			0	0	sm'h		cloudy.
Alert, N. 46° 38′, W. 162° 56′*	30.18	766.6	50	10.0	86	wnw.			3		10		wnw.			mod.	w.	misty.
Alliance, Boston, Mass*†	30.04	763.0	67	19.4	74	w.			2		2			0	0			clear.
Ashuelot, Yokohama, Japan*	29.68	753.9	75	23.9	81	ssw.			5		10		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.37	771.4	65	18.3	94	nw.			2		0			0	0	sm'h		clear.
Colorado, New York, N. Y.	30.11	764.8	67	19.4	89	sw.	6	2.7			8		w.	0	0			
Constellation, N. 38° 23′, W. 72° 59′*	30.17	766.3	70	21.1	85	w.			3		5		w.			sm'h		fair.
Enterprise, New York, N. Y*	30.08	764.0	68	20.0	90	sw.			2		8		sw.					cloudy.
Essex, Tuesday Bay, Patagonia	29.13	739.9	41	5.0	82	wsw.			2-4		8		sw.			sm'h	wsw.	squally.
Franklin, Norfolk, Va.	30.14	765.5	70	21.1	95	s.	4.8	2.1			8		s.	0	0			fair.
Galena, Alexandria, Egypt	29.86	758.4	80	26.7	91	nnw.			2		0					sm'h		clear.
Independence, Mare Island, Cal.	29.92	760.0	58	14.4	82	sw.			1		0			0	0			clear.
Iroquois, San Francisco, Cal.	29.98	761.5	60	15.6	71	calm			0		0			0	0			misty.
Kearsarge, Norfolk, Va.	30.18	766.6	70	21.1	100	s.			1		10							cloudy.
Lackawana, Callao, Peru*	30.00	762.0	61	16.1	82	e.			1		10							cloudy.
Lancaster, Alexandria, Egypt*	29.85	758.2	79	26.1	100	nw.			3		0			0	0	sm'h		clear.
Marion, S. 34° 54′, W. 56° 13′	30.03	762.7	57	13.9	100	e.			0-1		5?		calm			sm'h		cloudy.?
Michigan, Detroit, Mich.	29.87	758.7	63	17.2	100	s.			2		10		s.					cloudy.
Minnesota, Newport, R. I.	30.14	765.5	67	19.4	60	wsw.	2	0.9			2		w.					clear.
Monocacy, Chefoo, China	29.78	756.4	77	25.0	73	s.			2		8		s.			sm'h		fair.
New Hampshire, Newport, R. I.	30.14	765.5	65	18.3	94	sw.			2		2					sm'h		clear.
Nipsic, N. 37° 21′ E. 21° 08′.*	29.99	761.7	79	26.1	78	wsw.			3		0					sm'h		clear.
Onward, Callao, Peru†	30.12	765.0	59	15.0	88	ene.			2		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.78	756.4	75	23.9	86	calm			0		10		wsw.					cloudy.
Passaic, Washington, D. C.	30.16	766.1	70	21.1	100	s.			2		8		w.					fair.
Pensacola, N. 4° 16′ W. 80° 12′*	29.81	757.2	77	25.0	86	ssw.			4		10		se.	0.03	0.8	light	se.	cloudy.
Portsmouth, Lisbon, Portugal*	29.81	757.2	66	18.9	84	sw.			2		10							cloudy.
Powhatan, N. 25° 18′ W. 83° 04′	30.10	764.5	84	28.9	79	sw.			3		5		s.			sm'h		fair.
Quinnebaug, Alexandria, Egypt	29.84	757.9	77	25.0	86	nnw.			4		0					sm'h		hazy.
Ranger, Mare Island, Cal.	29.89	759.2	61	16.1	82	sw.			2		0			0	0			clear.
Richmond, Yokohama, Japan*	29.74	755.4	75	23.9	86	s.			4		10			0.9	23.			cloudy.
Saratoga, Lisbon, Portugal	29.83	757.7	63	17.2	89	sw.			3		10		sw.	h'vy	h'vy	sm'h		cloudy.
St. Louis, League Island, Pa.	30.35	770.9	71	21.7	95	sw.			2		8		w.	0	0			cloudy.
Swatara, Yokohama, Japan*	29.67	753.6	75	23.9	81	sw.			5		10		sw.			sm'h		cloudy.
Tennessee, off New York, N. Y.	30.16	766.1	71	21.7	85	sw.	4	1.8			8			0	0			cloudy.
Vandalia, Portsmouth, N. H*	30.08	764.0	69	20.6	95	w.			1		8		calm					fair.
Wabash, Boston, Mass.	30.05	763.3	68	20.0	70	wsw.	3	1.3			2		sw.	0	0			clear.
Wachusetts, Highfield Harbor, Alaska	30.16	766.1	48	8.9	92	ese.			1		10			0	0	sm'h		foggy.
Wyoming, Port Royal, S. C*.	30.12	765.0	73	22.8	85	ene.	3	1.3			8		s.	0	0			cloudy
Yantic, off Fort Point, Maine	30.01	762.2	59	15.0	94	calm			0		2							clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, N. 49° 07′, W. 63° 40′*	29.81	757.2	56	13.3		sw.			1		3		sw.	0	0			fair.
S. S. Scandinavian, N. 46° 43′ W 46° 36′*	29.96	761.0	51	10.6		wsw.			3		10		wsw.	driz.	driz.	mod.	s.	foggy.
S. S. Waldensian, Glasgow, Scotland*	29.46	748.3	61	16.1		var.			3		2		w.	0	0			clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, N. 51° 14′ W. 14° 09′ *†	29.50	749.3				nw.			4		3		nw.	0	0	mod.	wnw.	fine.
S. S. Lord Gough, N. 51° 05′ W. 20° 29′	29.56	750.8	56	13.3		wnw.			6		5		wnw.	0	0	long.	w.	fair.
S. S. Pennsylvania, N. 40° 35′, W. 48° 06′†	30.34	770.6	71	21.7		w.			2		1		w.			sm'h	w.	blue sky.
ANCHOR LINE.																		
S. S. Assyria, N. 39° 18′, W. 18° 05′*†	30.12	765.0	65	18.3		wnw.			6		5		wnw.	0	0	r'gh	wnw.	squally.
S. S. Galatia, N. 36° 45′, E. 2° 29′†	30.09	764.3	75.3	24.1		nw.			4		2		nw.	0	0	mod.	nw.	clear.
S. S. Utopia, N. 40° 31′, W. 71° 56′†	30.28	769.1	67	19.4	84	wsw.			2		5		wsw.	0	0	sm'h		fair.
ATLAS LINE.																		
S. S. Ailsa, N. 39° 35′, W. 74° 03′.†	30.10	764.5	69	20.6	95	sw.			2		5			0	0	sm'h		fine.
S. S. Alvena, N. 38° 31′, W. 74° 00′†	30.02	762.5	71	21.7	90	ssw.			1		2		wsw.	0	0	sm'h		fine.
S. S. Alvo, Kingston, Jamaica, W. I	30.07	763.8				se.			1		2			0	0			clear.
S. S. Antillas, N. 19° 24′, W. 67° 45′*†	30.30	769.6				ese.			2									
BOSTON AND HALIFAX.																		
S. S Carroll, Boston, Mass.†	29.96	761.0				nnw.								0	0			
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, N. 11° 49′ W. 25° 36′	30.15	765.8	81	27.2	81	ne.			3		3							blue sky.
S. S. Basil, N. 41° 52′, W. 9° 32′	29.73	755.1	66.8	19.3	84	sw.			3		1							blue sky.
S. S. Baroda, S. 29° 58′, E. 35° 24′	29.86	758.4	71.5	21.9	90	n.			6		2							blue sky.
S. S. City of Agra, N. 12° 16′, W. 23° 33′	30.15	765.8	80.5	26.9	80	nne.			3		0							blue sky.
S. S. Cipero, N 19° 55′ W 56° 24′	30.21	767.3	80.9	27.2	74	e.			2		4							d. clouds.
S. S Glencairn, N. 29° 00′, W. 41° 47′	30.42	772.7	78	25.6	86	se.			5		4							d. clouds.
S. S Gordon Castle, N. 36° 56′, E. 11° 49′	30.01	762.2	79	26.1	78	se.			3		1							misty.
S. S. Markland, S. 30° 10′, W. 134° 28′	30.21	767.3	64.2	17.9	83	w.			1		9					4	e.	d. clouds.
May Hulse, S. 19° 47′, W. 23° 50′	30.34	770.6	71	21.7	85	sse.			4		2							blue sky.
S. Oamarn, S. 31° 40′, E. 33° 55′	29.86	758.4	71.5	21.9	85	nnw.			5									misty.
S. S. Pole Star, N. 11° 54′, W. 30° 51′	30.15	765.8	79.4	26.3	90	ne.			5		3							showery.
S. S. Rosetta, N. 23° 17′, E. 117° 28′	29.81	757.2	81.5	27.5	91	s.			2		3							d. clouds.
CUNARD LINE.																		
S. S. Bothnia, N. 41° 48′, W. 53° 50′	30.11	764.8	72	22.2	90	s.			4				s.	0	0	mod.	s.	clear.
S. S. Gallia, N. 41° 45′, W. 52° 45′	30.17	766.3	72	22.2	95	ssw.			5		10		w.	mist	mist	mod.	sw.	overcast.
S. S. Marathon, N. 42° 30′, W. 48° 40′	29.95†	760.7†	68	20.0		s.			3		7		sw.	3 h'r	3 h'r	mod.	sw.	cloudy.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 42° 25′, W. 48° 57′†	30.15	765.7	73.4	23.0		wnw.			4		ck		wnw.	0	0	h'vy	w.	covered.
S. S. Ville de Marseilles, Marseilles, France*†	29.75	755.6	84.3	29.1		sse.			6		2			0	0			clear.
GUION LINE.																		
S. S. Arizona, N. 42° 40′, W. 56° 47′	29.99	761.7	65	18.3		s.			5		8		sw.	0	0	mod.		hazy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, Hamburg, Germany†	29.73	755.1				sw.			3		4		sw.	0	0			
S. S. Cimbria, N. 40° 39′, W. 71° 03′	30.10	764.5	64	17.8		wsw.			2		1		w.	0	0	sm'h	sw.	fair.
S. S. Gellert, N. 40° 52′, W. 50° 40′	30.25	768.3	70	21.1		sw.			3		1		wsw.	0	0	mod	sw.	clear.
S. S. Herder, New York, N. Y*†	30.05	763.3	75	23.9		sw.			2		2		ssw.	0	0			clear.
S. S. Silesia, N. 47° 18′, W. 27° 29′†	30.04	763.0				wnw.			6		5		w.	0	0	5	wnw.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 27° 00′ W. 20° 00′.*†	30.39	771.9	74	23.3		ne.			4		8		nne.	0	0	sm'h		clear.
MALLORY LINE.																		
S. S. Colorado, N. 27° 55′ W. 90° 34′†	30.05	763.3	81	27.2		ssw.			2		5		ssw.	0	0	mod.	ssw.	fair.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 35° 19′ W. 15° 40′ *†	30.06	763.5	72	22.2	90	w.			5		4		wnw.	2 h'r	2 h'r	r'gh	wnw.	fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 40° 33′, W. 56° 09′.†	30.20	767.1	76	24.4	95	sw.			6		5		sw.	0	0	mod.	wsw.	
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, Rio de Janeiro Brazil	29.86	758.4				ssw.			3				sw.	0	0			fine.
S. S. Glenapp, N. 31° 57′, W. 68° 26′†	30.33	770.4				sw.			2		7		w.	0	0	sm'h		fine.
NATIONAL LINE.																		
S. S. Denmark, London, Eng	29.64	752.8	63	17.2		ssw.			5		10		sw.	3 h'r	3 h'r			raining.
S. S. England, N. 50° 12′, W. 20° 52′	29.68	753.9				wnw.			6		2		wnw.	8 h'r	8 h'r	high	wnw.	clear.
S. S. Erin, Liverpool, Eng	29.32	744.7	63	17.2		wnw.			6		2		wnw.	8 h'r	8 h'r			fine.
S. S. Greece, N. 49° 37′, W. 11° 39′	29.44	747.8				nnw.			3		8		nnw.	1 h'r	1 h'r	mod.	nnw.	
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 27° 27′, W. 74° 00′†	30.17	766.3	81	27.2		sse.			2		1			½ h'r	½ h'r	sm'h		fine.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Campeche Roads, Mexico†	30.17	766.3	82	27.8	91	ese.			2		2		ne.	0	0			clear.
S. S. City of Washington, Havana, Cuba, W I.*†	30.20	767.1	85	29.4		calm			0		1		e.	0	0			fine.
NORTH GERMAN LLOYD.																		
S. S. Habsburg, N. 40° 41′, W. 55° 07′	30.18	766.6	72.5	22.5							8		ssw.	0	0	r'gh	ssw.	squally.
S. S. Hermann, N. 41° 04′, W. 51° 12′	30.28	769.1	75.2	24.0		sw.			5		2		wsw.	0	0	mod.	sw.	fair.
S. S. Hohenzollern, N. 38° 46′, W 68° 55′*	30.19	766.8	66.2	19.0		wnw.			2		0			0	0	sm'h	wnw.	clear.
S. S. Leipzig, N. 46° 17′ W. 29° 07′	30.06	763.5	58.5	14.7	73	nw.			4		8		nw.	0	0	long	nnw.	fair.
S. S. Mosel, N. 48° 19′ W. 27° 26′	30.00	762.0	50.0	10.0		wnw.			6		8		wnw.	1 h'r	1 h'r	r'gh	wnw	cloudy.
S. S. Ohio, Bremerhaven, Germany	29.62	752.3				ssw.			3		4		ssw.	8 h'r	8 h'r			fair.
S. S. Rhein, N. 47° 57′, W. 28° 46′	29.95	760.7				wnw.			3		7		wnw.	0	0	r'gh	wnw.	cloudy.
S. S. Saller, N. 38° 13′, W. 74° 26′	30.23	767.8	65.3	18.5		s.			3		8		s.	0	0	mod.	s.	cloudy.
S. S. Strassburg, N. 49° 32′, W. 6° 11′	29.46	748.3	65.0	18.9	68	sw.			3		1		wsw.	1 h'r	1 h'r	mod.	wsw.	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 31° 40′, E. 133° 29′*†	29.85	758.2	74	23.3	90	sw.			1		5		sw.	mod.	mod	sm'h		d. clouds.
S. S. Belgic, San Francisco, Cal.†	29.95	760.7	60	15.6	76	sw.			1		2		sw.					clear.
S. S. Coptic, N 34° 15′ E. 138° 08′	30.02	762.5	71.5	21.9	88	sw.			3		2		sw.	0	0	2	sw.	blue sky.
S. S. Gaelic, N. 43° 12′, W. 136° 21′†	30.33	770.4	66	18.9	41	ssw.			5		4		s.			mod.	s.	fair.
S. S. Oceanic, Hong Kong, China*.	29.79	756.7	87	30.6	72	s.			5		10		se.					stormy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	30.19	766.8				calm			0		0			0	0			clear.
S. S. City of Columbus, New York, N. Y†	30.09	764.3				sw.			3		0			0	0			clear.
S. S. Seminole, N. 38° 40′, W. 73° 50′.†	30.17	766.3	68	20.0	90	ssw.			3		1		sw.	0	0	mod.	s.	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 44° 32′, W. 124° 15′†	30.25	768.3	51.5	10.8	86	nne.			1		5		nnw.	0	0	hv'y	nw.	hazy.
S. S. Oregon, San Francisco, Cal†	30.01	762.2	59	15.0	87	calm			0		0							hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 32° 42′, W. 117° 19′†	29.87	758.7	62	16.7	88	se.			3		10		se.			sm'h		cloudy.
S. S. State of California, Astoria, Oregon †	30.23	767.8	50	10.0	86	w.			2		8		w.					cloudy.
S. S. Victoria, N 46° 45′, W. 124° 35′†	30.10	764.5	54	12.2	86	w.			1		2			0	0			fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	29.74	755.4	55	12.8	74	ne.			3		5?		nnw.	0	0			hazy.
S. S. City of New York, N. 22° 01′, W. 155° 06′†	30.15	765.8	75	23.9	81	ese.			4		2		ese.	0	0	sm'h		clear.
S. S. City of Pekin, N. 38° 57′, E. 149° 28′ †	30.10	764.5	65	18.3	89	ese.			4		10		e.	0	0	mod.	ese.	overcast.
S. S. City of Rio de Janeiro, N. 31° 17′, W. 119° 00′*†	30.13	765.3	60	15.6	82	nw.			4		9		nw.	0	0	mod.	nw.	gloomy.
S. S. City of Sydney, Sydney. N. S. W.†	29.79	756.7	65	18.3	73	nnw.			6		10		sw.	0	0	sm'h		light rain.
S. S. City of Tokio, N. 43° 28′, W. 162° 30′†	30.48	774.2	54	12.2	93	nw.			2		8		n.	½ h'r	½ h'r	small	wnw.	fair.
S. S. Colon, N. 15° 26′, W. 76° 15′†	30.04	763.0	83	28.3		ene.			7		3		e.	0	0	large	ene.	fair.
S. S. Colima, Panama, Panama†	29.87	758.7	77	25.0	95	nnw.			2		9		nw.	0	0			cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. Grenada, Acapulco, Mexico†	29.93	760.2	80	26.7	?	n.			1		2		n.	0	0			clear.
S. S. Zelandia, N. 33° 04′, W. 136° 16′	30.40	772.1	67	19.4	84	ne.			3		10		ne.			mod.	nne.	cloudy.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, Trinidad, W. I.	29.93	760.2	79	26.1		ene.			3		10			2 h'r	2 h'r	sm'h		rainy.
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	29.67	753.6	66	18.9	64	w.			6		4?		w.	2 h'r	2 h'r			overcast?
S. S. Rhynland, N. 44° 48′, W. 39° 28′	30.18	766 6	67	19.4	84	wsw.			6		8		wsw.	0.1	3.	high	wsw.	cloudy.
S. S. Switzerland, N. 48° 56′, W. 15° 13′	29.64	752.8				wnw.			4		8		wnw.	0	0	long	wnw	fair.
S. S. Vaderland, Antwerp, Belgium	29.53	750.0	66	18.9	79	ssw.			3		10		ssw.	3 h'r	3 h'r			overcast.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 48° 10′, W. 24° 48′*	29.85	758.2	62.1	16.7	79	nw.			6		7		nnw.	3 h'r	3 h'r	hv'y	nw.	cloudy.
S. S. W A Scholten, N. 46° 33′, W. 33° 20′	29.85	758.2	55.2	12.9	99	wsw.			4		10		w.	4 h'r	4 h'r	cross	nw.	fair.
STATE LINE.																		
S. S. State of Florida, N 51° 14′, W. 22° 19′	29.57	751.1	57	13.9		nw.			6		9		nnw.	rain	rain	r'gh	nw.	cloudy.
S. S. State of Georgia, N. 40° 38′ W. 63° 19′†	30.09	764.3	65	18.3		w.			3		0			0	0	sl't	wsw.	fine.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 58° 19′, E. 3° 32′†	29.71	754.6	57.2	14.0		sse.			3		10		sse.	10 h'r	10 h'r	mod.	sse.	covered.
WARREN LINE.																		
S. S. Iowa, Off Ballycottin, Ireland*†	29.45	748.0	61	16.1		ssw.			4		3		ssw.	0	0	sli't	ssw.	clear.
WHITE STAR LINE.																		
S. S. Baltic, N. 49° 55′ W. 20° 09′†	29.71	754.6	54	12.2	87	nw.			4		8		nnw.	1 h'r	1 h'r	r'gh	nw.	showery.
S. S. Britannic, N. 40° 47′, W. 69° 43′†	30.11	764.8	59	15.0	94	wnw.			2		2		w.			sm'h		blue sky.
S. S Celtic, N. 40° 50′, W. 60° 36′†	30.11	764.8	74	23.3	72	wnw.			5		10		nw.	12 h'r	12 h'r	sm'h		cloudy.
S. S. Republic, N. 51° 46′, W. 8° 15′†	29.43	747.5	60	15.6	88	sw.			2		2		w.	sh'rs	sh'rs	mod.	sw.	showery.
WILSON LINE.																		
S. S. Romano, N. 44° 22′, W. 31° 18′	30.12	765.0	66	18.9		nw.			3		10		wnw.	0	0	sm'h		cloudy.
WINSOR LINE.																		
S. S. Catherine Whiting, Providence, R. I.†	30.12	765.0	68	20.0		sw.					0			0	0			clear.
MISCELLANEOUS.																		
Schr. Addie Fuller, Bath, Me						calm			0		0			0	0			fair.
Schr. Ajax, Indianola, Texas†	30.06	763.5				ssw.			1		7		sw.	0	0			fair.
Bk. Alpha, New York, N. Y†	30.05	763.3	71	21.7		sw.			1		1		nw.	0	0			fair.
Schr Annie Lewis, Aransas Pass, Texas†	30.03	762.7	82	27.8		sse.			2		0			0	0	long	se.	clear.
Bk. Anna Thormann, S. 36° 40′ W. 5° 28′	30.19	769.9	59.5	15.3	88	nnw.			5		3 k		nnw.	0	0	mod.	nw.	clear.
S. S. Antonio Lopez, Cadiz, Spain	29.93	760.2	72	22.2	81	wsw.			6		7			light	light			squally.
Bk. Argonaut, N. 59° 29′ W. 6° 44′*†	29.28	743.7	58.6	14.5		nw.			1		8			4 h'r	4 h'r	long	nw.	hazy.
Schr. Asa Eldridge, Key West, Fla†	30.17	766.3				se.			3		5		sse.	½' hr	½ h'r			fair.
Bk. Aureola, Bahia, Brazil, S. A*†	30.40	772.1	76	24.4		ese.			5		10		se.	10 h'r	10 h'r			clo dy.
Bk. Bergenseren, N. 47° 10′ W 60° 32′†	29.88	758.9				sw.			3		1		wsw.	0	0	sm'h		
Bk. Cato, N. 51° 05′, W. 23° 25′*†	30.00	762.0				nw.			6		5?		nw.	0	0	r'gh	nw.	cloudy ?
Bk. Celestina, S. 34° 13′, W. 49° 49′*†	30.15	765.8				nw.			3		0			0	0	little	nnw.	clear.
Schr. C. R. Flint, Cedar Keys, Florida†	30.23	767.8	80	26.7		calm			0		10		e.	2 h'r	2 h'r			light rain
Schr. Edith R. Seward, N. 18° 23′, W. 65° 09′*†	30.22	767.6	84	28.9		e.			2		3		ese.	20 mi	nutes	mod.	e.	fair.
S. E. J. Spicer, N. 40° 35′, W. 69° 50′†	30.15	765.8				w.			3		2		wsw.	0	0	mod.	sw.	
S. Enoch Train, N. 38° 19′, W. 69° 30′*†	30.35	770.9				w.			1		2			0	0	sm'h		clear.
Bk. Essex, S. 33° 30′ W. 16° 55′*†	30.31	769.9	69	20.6		ne.			2		1		ene.	0	0	sm'h	w.	clear.
Bk Freya, N. 40° 46′ W. 65° 11′			63	17.2		sw.			4		0			0	0	sm'h		fine.
S. Grecian, Hong Kong, China*†	29.85	758.2	83	28.3		w.			6		6?		sw.	0	0			clear ?
Bk. Hattie G. McFarland, Portland, Me*†	30.05	763.3	63	17.2		calm			0		3		w.	0	0			fair.
S Hedwig, N. 37° 56′, E. 5° 32′	29.94	760.5	82.9	28.3	73	wsw.			4		0			0	0	short	w.	fine.
Bk. Horace Scudder, N. 34° 00′, W. 67° 40′†	30.29	769.4	76	24.4		w.			1		8		w.	3 h'r	3 h'r	short	nw.	d. clouds.
S. Ivy, N. 17° 40′, W. 125° 05′†	30.21	767.3	70	21.1		ne.			3		10		e.	0	0	sm'h	s.	cloudy.
Schr. Jennie N. Huddell, Camden, N. J†	30.25	768.3	74	23.3	95	sw.			1		2		w.	0	0			clear.
Bk. Johanne, N. 60° 00′, W. 5° 00′*†	29.20	741.7	57	13.9		ese.			2		0			8 h'r	8 h'r	cross	e.	foggy.
Schr. John L. Thomas, Vivorilla Cays, C. A*†	30.08	764.0				e.			2		1		e.	0	0			clear.
Bg. John Wesley, N. 31° 00′ W. 67° 54′†	30.19	766.8				s.			1		9		s.	1½ h'r	1½ h r	mod	se.	sprinkling.
Bk Joseph A. Ropes, N. 9° 43′, W. 28° 34′*†	30.17	766.3	81	27.2	87	ene.			3		8		ene.	2 h'r	2 h'r	mod	se.	cloudy.
Bkt. Josephine, N. 39° 40′ W. 72° 31′†	30.14	765.5	70	21.1	75	sw.			4		5		wnw.	0	0	sm'h		fair.
Bkt. Kryolith, N 58° 10′ W. 50° 56′*†	29.84	757.9				n.			2							sm'h		hazy.
S. S. Lamperis, Suez Canal, Egypt*	29.78	756.4	86.0	30.0	47	nnw.			3		0							blue sky.
Light House Tender, Laurel, Key West, Florida†	30.14	765.5	85	29.4		se.			3		4		se.	0	0			fair.
Bk. Liberia, N. 10° 06′, W. 18° 30′*	29.92	760.0	79	26.1	86	sw.			3		4		w.	0	0			
S. S. Malabar, N. 47° 38′, W. 168° 37′*†	30.22	767.6				w.			4		5?		sw.	0	0	mod		cloudy.?
S. Orealla, N. 39° 44′, W. 72° 29′*	30.04	763.0	70	21.1		ssw.			2		2		se.	0	0	sm'h	se.	clear.
S. Paramita, S. 23° 18′ W. 93° 35′†	30.12	765.0	72	22.2		e.			4		4		e.	1 h'r	1 h'r	long	sw.	clear.
S. S. Ponca, N. 8° 35, W. 53° 20′†	30.07	763.8	87	30.6		ene.			2		1		ene.	0	0	light	e.	clear.
S. S. Sunbeam, N. 44° 14′, E. 30° 24′	30.02	762.5	77	25.0	82	s.			1		0							blue sky
S. Sovereign of the Sea, N. 10° 30′, W. 29° 31′*†	30.06	763.5	82	27.8	87	ene.			4		4	sw.	ene.	1 h'r	1 h'r	mod.	cross	clear.
Bg. Teneriffe, Cardenas, Cuba, W. I.	30.06	763.5				se.			1									
Bk. Truro, N. 43° 56′, W. 28° 50′*†	30.05	763.3				wnw.			5		9		wnw.	0	0	mod.	nw.	cloudy.
U.S.F.C.S.S.Fish Hawk, Washington, D. C†	30.28	769.1	71	21.7	95	ssw.			4		8		sw.	0	0			cloudy.
S. S. Victoria J Peed, Savanilla, U. S. C.						ene.			9		0							
Schr Viola Reppard, Baltimore, Md†	29.99	761.7	78	25.6		sw.			1		2		sw.	0	0			clear.
Bk. Wm. Wilcox, S. 26° 15′ W 43° 25′†	30.50	774.7	72	22.2		ne.			4		2		ne.	0	0	sm'h		fair.
S. Wm. Woodbury, N. 48° 45′ W. 11° 25′*	29.56	750.8	63	17.2	78	nw.			6		4		nw.	sqll's	sqll's	long	wnw.	clear.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 9, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.02	762.6	76.6	24.8	88	sw.			2		0			0	0	clear	Bouvier.
Algiers			29.97	761.1	78.8	26.0	47	nnw.			2		2			0	0	fair	Nicolas.
La Galle			29.92	759.9	81.7	27.6	63	nnw.			4		2			0	0	fair	Fonfrède.
Tunis			29.88	759.0															Jacques.
Saida			30.06	763.5	86.4	30.2	32	ene.			2		1			0	0	very fair	Perès.
Tebessa			30.02	762.4	101.8	38.8	11	sw.			4		2			0	0	fair	Derché.
Geriville					82.8	28.2	3	n.			1		0			0	0	clear	Louchamp.
Laghouat			30.04	763.1	101.8	38.8	34	ne.			1		0			0	0	clear	Abraham.
Biskra			30.02	762.6	102.2	39.0	21	nw.			2		4			0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.12	765.0	30.21	767.3	47.4	8.6	80	wnw.	3	1.3			10			0.01	0.3	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.17	741.0	29.68	753.9	89.6	32.0	37	s.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.91	734.2	29.62	752.4	83.1	28.4	53	w.	4.9	2.2			0			0	0		Dr. Wierzbiski.
Eperies	28.82	732.1	29.64	752.8	86.4	30.2	46	s.			2	0	0			0	0		Julius Mikolik.
Gratz	28.48	723.3	29.64	752 9	84.2	29.0	67	sw.			5		3			0	0		Andreas Rospini.
Hermannstadt	28.46	722.9	29.77	756.1	95.0	35.0	36	s.			2		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.21	716.5	29.45	748.1	80.2	26.8	75	ene.			2	0	5 k			0.122	3.1		The Staff.
Lemberg	28.91	734.3	29.83	757.7	84.2	29.0	51	sw.			3		6			0	0		Dr. T. Stanecki.
Pola	29.60	751.9	29.71	754.6	82.9	28.3	55	wsw.			2		0			0	0		I. R. Hydrographic Office.
Szathmar	29.28	743.7	29.72	754.9	93.2	34.0	29	sw.			4		0			0	0		Joseph Midlinszky, S. J.
Szegedin	29.48	748.9	29.74	755.4	92.5	33.6	30	s.			3		4			0	0		Karl Stancel.
Trieste	29.67	753.7	29.78	756.3	82.8	28.2	52	w.			1		0			0.071	1.8		Royal Academy.
Vienna	28.90	734.1	29.59	751.6	90.7	32.6	38	se.			3		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.36	745.7	29.46	748.3	61.7	16.5	68	sse.	17	7.6			2			0	0	blue sky	W. Boswell
Armagh, Observatory	29.24	742 7	29.47	748.5	57.4	14.1	79	sw.	6	2.7									S. Call.
Bidston, Liverpool Obs'y			29.54	750.3	62.6	17.0	69	w.	12	5.4			7					d. clouds	John Hartnup.
Bolton, Sharples	29.03	737.3	29.55	750.0	56.1	13.4	80	sw.					10					raining	Thomas Mackereth.
Bradford, Yorkshire																0	0		McLandsborough & Pres. [ton.
Bridgetown, Barbadoes	30.08	764.0	30.11	764.8	84.0	28.9	71	ne.			3		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.60	751.8	63.0	17.2	88	w.			0.4		8					raining	John McLaren.
Chatham, School M. E.	29.52	749.8	29.64	752.8	62.8	17.1	68	sw.			1		8			blank	blank	misty	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.45	748.0	29.67	753.6	63.1	17.3	61	sw.			3		6					d. clouds.	The Staff.
Fort Napier, Natal	27.83	706.9	30.03	762.7	63.2	17.3	35	e.			1		2					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.73	755.1	29.96	761.0	86.0	30.0	75	nw.			1		4					drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	30.06	763.5	30.11	764.8	77.2	25.1	74	w.			2		4					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.15	740.4	29.35	745.5	58.5	14.7	84	sw.			4		6 n					gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.46	748.3	29.63	752.6	59.8	15 4	78	sw.			1		7					showery	The Staff.
Guernsey	29.45	748 0	29.74	755.4	62.0	16.7	71	sw.			3		4					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.60	751.8	29.64	752.8	58.9	14.9	87	sw.	15	6.7			9					raining	The Staff.
Leicester, Museum	29.33	745.0	29.58	751.3	66.4	19.1	50	sw.			1		8					d. clouds	J. C. Smith.
Malta, Mediterranean	29.91	759.7	29.98	761.5	85.0	29.4	55	ne.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.17	766.3	30.22	767.6	84.5	29.2	73	s.			3		7			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.09	738.9	29.60	751.8	59.4	15.2	81	ssw.			2		8					showery	Warren Middleton.
Oxford, Radcliffe Obs'y	29.39	746.5	29.62	752.3	62.2	16.8	74	sw.			2		8					d. clouds	The Staff.
Plymouth	29.00	751.8	29.68	753.9	65.0	18.3	62	sw.			3		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.43	747.5	62.2	16.8	77						3					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.82	757.4	29.88	758.9	90.0	32.2	41	n.			2		0					misty	W. H. Lyne.
Sheffield																			W. F. Cooper.
Silloth Rectory	29.48	748.8	29.51	749.5	62.5	16.9	70	ssw.			4		4			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.56	750.8	60.3	15.7	59	w.	13	5.8			10					overcast	Rev. S. J. Perry.
Straifield Turgiss	29.44	747.8	29.66	753.4	61.5	16.4	66	sw.			2		5					d. clouds	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.66	753.4	29.67	753.6	66	18.9	58	w.			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	29.52	749.8	29.54	750.3	57.0	13.9	85	w.	21	9.4			10			blank	blank	d clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.75	755.6	29.79	756.7	62	16.7	85	sw.	12	5.4			10 n			inap.	inap.	light rain	H. J. Cundall, C. E.
Chatham, N. B*	29.69	754.1	29.75	755.6	67	19.4	84	sw.	8	3.6		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	29.75	755.6	29.78	756.4	56	13.3	90	sw.	20	8.9		0	5 s		w.	0.28	7.1	fair	J. McWilliams.
Fort Garry, Manitoba*	28.61	726.7	29.40	746.7	61	16.1	100	e.	6	2.7			10 s		e.	3.160	80.3	threatening.	James Stewart.
Halifax, N. S*	29.77	756.1	29.90	759 4	66	18.9	84	sw.	5	2.2		5 k	0	w.		0	c	fair	A. Allison.
Kingston, Ontario*	29.68	753.9	30.00	762.0	66	18.9	93	w.	8	3.6		10 ck	0			0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.75	755.6	29.95	760.7	67	19.4	90	w.	9	4.0		5 ck	2 ks	w.		inap.	inap.	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.34	745.2	30.02	762.5	63	17.2	93	calm	0	0		5 k	2 ks	w.	w.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.35	745.5	30.02	762 5	66	18.9	100	calm	0	0			fg.			0.19	4.8	foggy	H. Morgan.
Port Stanley, Ontario	29.37	746.0	30.00	762.0	65	18.3	100	calm	0	0			fg.			0.07	1.8	foggy	M. Payne.
Quebec, Quebec*	29.56	750.8	29.87	758.7	66	18.9	84	w.			3	0	2 s		w.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.54	750.3	29.98	761.5	64	17.8	87	nw.	2	0.9		5 ck	0	nw.		0.10	2.5	fair	W. H. McIntyre.
Saugeen, Ontario*	29.29	744.0	29.98	761.5	67	19.4	97	calm	0	0			10 ks			0	0	cloudy	
St. Andrews, N. B	29.81	757.2	29.86	758.4	61	16.1	85	ne.	1	0.4		5 k	2 k	nw.		0	0	fair	
Sydney, C. B*	29.74	755.4	29.80	756.9	65	18.3	81	sw.	12	5.4		3 ck	0	w.		0.23	5.8	fair	T. C. Hill, C. E
Toronto, Ontario*	29.66	753.4	30.03	762.7	67	19.4	93	w.	2	0.9			10 ks		w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.89	759.2	29.96	761.0	54	12.2	93	sw.	6	2.7		8 ck	fg	s.	sw.	0	0	hazy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
Mount Forest	28.63	727.2	30.05	763.3	65.0	18.3	94	wsw.			2		fg.			0	0	dense fog	Wm. Wylie.
St. Johns, Newfoundland	29.95?	760.7?	30.20?	767.1?	58	14.4	100	sw.	2	0.9		5 k	5 s			0.73	18.5	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.32	770.1	30.35	770.9	58.0	14.4	83	wsw.	35.8	16.0		0	8 n			0.810	20.6		John Duthie.
Cape Town, C. G. H. Obs'y	30.38	771.6	30.42	772.7	61.2	16.2	74	nw.	5	2.2		0	4			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.85	758.2	29.87	758.8	68.2	20.1	94	ne.	3.8	1.7			10 n			1.413	35.9	raining	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.58	751.2	29.62	752.4	65.8	18.8	73	se.	9	4			8						Oversergent Fischer.
Fanöe	29.61	752.0	29.63	752.5	63.5	17.5	77	w.			4		9						Overloerer Lauridsen
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.52	749.8	29.56	750.9	41.4	5.2	86	e.			6		8						A. O. Thorlacius.
Thorshavn	29.43	747.6	29.47	748.5	60.4	15.8	81	calm	0	0			7					foggy	Overloerer Bergh.
Vestervig	29.54	750.2	29.63	752.5	60.8	16.0	93	calm			0		10						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.33	744.9	29.98	761.5	63.0	17.2	81	wsw.			2		10 k		w.	0.283	7.2	raining	M. Labroue, Director.
Alençon, Normal School	29.26	743.3	29.82	757.3	63.3	17.4	80	sw.			3		kn	ne.	ne.	0.39	10.		M. Nicot, Director.
Arras, Engineer School	29.43	747.4	29.68	753.8	65.3	18.5	60	sw.			2		k		sw.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.72	755.0	29.80	757.0	66.2	19	67	n.			2		5		se.	0.256	6.5	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.28	743.8	29.83	757.6	62.2	16.8	81	s.			1		10		w.	0.138	3.5	covered	M. Saillard, Director.
Beauvais, Normal School	29.48	748.7	29.73	755.2	67.1	19.5	58	s.			2		8		wsw.	0.921	23.4	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.91	734.3	29.79	756.6	56.7	13.7	88	s.			2		10		se.	1.673	42.5	raining	M. Gobin, Director.
Bordeaux, Observatory	29.65	753.0	29.90	759.5	63.0	17.2	68	wsw.			1		10		w.	0.224	5.7	raining	M. Rayet, Director.
Bourges, Normal School	29.25	743.0	29.79	756.7	63.5	17.5	59	sw.			1		n		sw.	0.201	5.1		M. Malet, Director.
Brest, Naval Observatory	29.58	751.2	29.82	757.4	66.2	19.0	66	sw.			2		2		sw.	0.031	0.8	hailing	M. de Kermaree, Dir.
Caen, Normal School	29.74	755.5	29.82	757.3	66.4	19.1	51	sw.			2		5		sw.	0.220	5.6	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.41	747.0	29.72	754.8	60.8	16.0	79	sw.			2		10			0.091	2.3	covered	M. Judot, Director.
Charleville, Normal School	29.17	740.8	29.66	753.3	66.2	19	54	sw.			2					0.008	0.2		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.50	724.0	29.84	758.0	59.0	15.0	78	sse.			1		10			1.161	29.5	covered	M. Allnard, Director.
Cluny, Normal School	29.05	737.9	29.84	758.0	53.1	11.7	90	s.			1		8			2.64	67.		M. de Villemontée, Dir.
Commercy, Normal School	28.94	735.1	29.79	756.6	57.4	14.1	93	sw.			3		10 kn	sw.	sw.	0.256	6.5	covered	Dr. Coulet, Director.
Gap, Normal School	27.30	693.5	29.78	756.5	60.8	16	83	se.			1	1	9 k		s.	0.374	9.5		M. Jeangirard, Director.
Gréasque, du Rhone	28.68	728.4	29.76	756.0	68.0	20.0	60	sw.			2		5		sw.	0.47	12.		M. Kina, Director.
Grenoble, Normal School	29.06	738.0	29.82	757.4	55.0	12.8	86	nw.			4		kn			0.283	7.2		M. Ablard, Director.
Guéret, Normal School	28.28	718.4	29.82	757.4	63.5	17.5	62	sw.			3	8 ck	0	sw.		0.126	3.2	very cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.50	749.4	29.77	756.2	59.0	15	78	s.			1		5		s.	0.39	10.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.37	746.0	29.92	759.9	74.3	23.5	42	sw.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.73	755.2	29.84	757.8	60.4	15.8	79	wsw.			1		10		sw.	0.118	3.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.84	732.6	29.89	759.2	54.7	12.6	76	n.			1		10		nnw.	2.382	60.5	sprinkling	M. André, Director.
Mans, Normal School	29.47	748.5	29.78	756.3	63.5	17.5	56	sw.			1		5		w.	0.283	7.2	cloudy	M. Piboen, Director.
Marseille, Observatory	29.51	749.5	29.77	756.2	69.4	20.8	56	wnw.			3		7		wnw.	0.299	7.6		M. Stephan, Director.
Montlouis	24.75	628.6	29.59	751.6	53.6	12.0	60	w.	18.6	8.3			7	w.		1.004	25.5		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.66	753.4	29.79	756.6	64.4	18	71	w.			2		5	nw.		0.606	15.4	cloudy	M. Galzin, Director.
Nancy, Normal School	29.02	737.1	29.80	756.8	55.4	13.0	95	s.			1		n		sw.	0.661	16.8		M. Hasse, Director
Nantes, Observatory	29.70	754.4	29.86	758.5	67.5	19.7	51	wnw.			2-3	0	k;kn		wnw.	0.28	7.		M. Larocque, Director.
Perpignan, Observatory	29.80	756.8	29.90	759.5	65.8	18.8	62	nw.	15.0	6.7			10		nw.	0.413	10.5		Dr. Fines, Director.
Pic-du-Midi, Summit	21.17	537.6			29.3	— 1.5		nw.			1		10		nw.	1.248	31.7	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.84	732.4	29.89	759.1	58.6	14.8	58	nw.			1		10			0	0	covered	M. Tallien.
Puy de Dôme Obs'y, Summit	25.01	635.3			41.2	5.1	100	w.			3		10			1.032	26.2	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.91	759.0	29.94	760.4	69.4	20.8	96	sw.			2		8		wsw.	0.31	8.	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.64	752.8	29.85	758.1	67.3	19.6	64	sw.			1		5		ne.	0.252	6.4	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.78	705.6	29.90	759.5	56.8	13.8	71						10		se.	1.595	40.5	raining	M. Seger, Director.
Rouen, Normal School	29.65	753.0	29.69	754.2	64.4	18	80	wsw.			3		8	wsw.		0.35	9.	very cloudy	M. Brotier.
Saint Maur, Observatory	29.59	751.6	29.76	755.8	67.1	19.5	55	w.			1		5	s.	w.	0.039	1.0		M. Renou, Director.
Toulouse, Observatory	29.28	743.8	30.01	762.2	61.3	16.3	74	w			1		8		w.	1.303	33.1	very cloudy	M. Baillard, Director.
Tours	29.62	752.4	29.80	756.9	66.9	19.4	70	wsw.			1	c	5 k	sw.	sw.	0.102	2.6	cloudy	M. de Tastes.
Versailles, Observatory	29.26	743.3	29.76	755.8	65.5	18.6	57	sw.			1					0.008	0.2		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.47	748.4	29.76	755.8	64.2	17.9	66	wsw.			1		7		w.	0.122	3.1		M. Marié Davy, Director
GERMAN.																			
Bamberg	28.83	732.2	29.67	753.7	64.4	18.0	70	ne.			2	0	8 s			0.669	17.0	heavy rain	Prof. Dr. Hoh.
Berlin	29.57	751.1	29.74	755.5	69.3	20.7	61	w			2		10			0.024	0.6		Prof. Dr. Arndt.
Breslau	29.18	741.1	29.70	754.4	79.5	26.4	49	e.			1		2			0	0		Royal University Obs'y.
Carlsruhe	29.34	745.3	29.78	756.3	55.0	12.8	100	nw.			1		10	nw.		0.602	15.3	raining	Albert Senz.
Cassel	28.95	735.2	29.66	753.3	65.5	18.6	68	w.			2		8	sw.		0.102	2.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.34	745.1	29.69	754.2	61.0	16.1	89	wsw.			1		10			0.228	5.8		Physical Society.
Friedrichshafen	28.21	716.6	29.60	751.8	63.7	17.6	79	ne.			5		10	w.		1.961	49.8		Wilhelm, Chief Tel.
Hamburg	29.56	750.8	29.65	753.2	67.3	19.6	67	wsw.			3		9			0	0		E. Preller.
Kiel	29.64	752.8	29.65	753.2	65.8	18.8	72	w.			2		10			0.287	7.3		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.28	743.7	29.69	754.0	67.6	19.8	60	sw.			2		9	sw.		0.366	9.3		H. Leppig, Asst.
Magdeburg	29.48	748.7	29.66	753.3	66.6	19.2	74	wnw.			2		10 ks			0.146	3.7	raining	Dr. Assmann.
Memel	29.71	754.0	29.76	755.8	66.4	19.1	83	se.			1		10					light rain	Issermann.
Munich	27.78	705.6	29.61	752.2	72.1	22.3	65	ne.			3		6	ne.		0.228	5.8		Dr. C. Lang.
Neufahrwasser	29.68	753.8	29.69	754.2	72.7	22.6	66	w.			1		10*	sw.		0.020	0.5		A. Lothes.
Neustadt, Palatinate	29.14	740.2	29.66	753.4	59.0	15.0	78						10	s.		0.177	4.5		Dicknether.
Stuttgart	28.73	729.7	29.60	751.9	59.9	15.5	76	nw.			1		10			0.228	5.8		Prof. Dr. Schoder.
Wustrow	29.63	752.0	29.65	753.2	66.6	19.2	74	wnw.			1		10 s			0.079	2.0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.52	749.8			95.9	35.5		ne.			3.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.46	748.2	29.51	749.5	85.4	29.7	82	wsw.	32.0	14.3			9			0.03	0.8	gloomy	
Deesa	28.97	735.8	29.43	747.5	88.5	31.4	71	sw.	17.0	7.6			8	e.		0.05	1.3	d. clouds	
Bombay	29.64	752.8	29.68	753.7	81.3	27.4	86	wsw.	26.0	11.6			10		sw.	0.72	18.3	overcast	
Poona, Yarrowda	27.83	706.8	29.69	754.1	74.3	23.5	88	w.	19.0	8.5			9		w.	0.02	0.5	gloomy	
Trichinopoly	29.50	749.4	29.78	756.4	88.5	31.4	47	nw.	2.0	0.9			6			0	0	d. clouds	
Bellary	28.26	717.9	29.73	755.2	77.0	25.0	82	w.	18.5	8.3			10	wsw.		0	0	gloomy	
Belgaum	27.24	692.0	29.81	757.2	68.7	20.4	96	wsw.	15.0	6.7			10			1.06	26.9	showery	
Lahore	28.57	725.7	29.26	743.3	107.8	42.1	31	calm	2.0	0.9			5			0	0	d. clouds	
Roorkee	28.49	723.6	29.36	745.6	89.6	32.0	74	e.	0.9	0.4			5			0	0		
Agra	28.90	734.0	29.44	747.9	91.7	33.2	59	e.	3.1	1.4			4		e.	0	0	d. clouds	
Nagpur	28.52	724.3	29.55	750.5	80.7	27.1	80	wnw.	6.5	2.9			9		w.	5.33	135.4	gloomy	
Jubbulpore	28.20	716.1	29.54	750.2	80.1	26.7	84	w.	5.2	2.3			9			0.49	12.4	overcast	
Lucknow	29.09	739.0	29.46	748.4	81.2	27.3	85	calm	0.7	0.3			10			0.13	3.3	raining	
Allahabad	29.15	740.5	29.46	748.4	79.7	26.5	93	nw.	1.4	0.6			10			0.21	5.3	drizzling	
Patna	29.29	744.0	29.48	748.6	84.8	29.3	78	ene.	5.6	2.5			8	ene.	ene.	0	0	d. clouds	
Hazaribagh	27.47	697.7	29.43	747.4	84.8	29.3	64	nne.	6.0	2.7			10		ne.	0	0	thunder	
Cuttack	29.42	747.2	29.50	749.2	80.5	26.9	88	ssw.	4.3	1.9			8			0.13	3.3	d. clouds	
Calcutta, Allpore	29.44	747.9	29.47	748.4	80.9	27.2	96	ssw.	4.0	1.8			10			0.49	12.4	drizzling	
Dhubri	29.44	747.7	29.55	750.6	79.3	26.3	93	ne.	3.8	1.7			10			1.25	31.8	overcast	
Chittagong	29.50	749.2	29.58	751.4	80.7	27.1	84	se.	10.0	4.5			9			0.02	0.5	d. clouds	
Sibsagar	29.30	744.2	29.63	752.6	78.9	26.1	93	ne.	1.6	0.7			10	w.	w.	0.90	22.9	d. clouds	
Jeypore	28.01	711.5	29.42	747.2	86.9	30.5	78	ese.	3.2	1.4			9		ese.	0.09	2.3	d. clouds	
Zanzibar, Africa	30.05	763.3			82.6	28.1	56	se.	8.1	3.6			4		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.37	746.1	29.77	756.2	85.1	29.5	46	sw.	2.5	1.1			9			0	0		Prof. Giovanni Cloding.
Milan	29.11	739.5	29.61	752.1	81.1	27.3	56	e.	11.2	5.0			9			0	0		Prof. Schiaparelli.
Padua	29.61	752.1	29.72	754.8	85.1	29.5	44	ese.	13.0	5.8			1			0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.67	728.2	29.54	750.3	76.6	24.8	55	e.	14.3	6.4			5	sw.		0.165	4.2		Prof. P. F. Denza.
Genoa	29.52	749.9	29.71	754.6	74.3	23.5	83	se.	18.1	8.1			10	se.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.70	703.6	29.55	750.5	75.2	24.0	50	s.			8		3			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.62	752.4	29.67	753.6	95.4	35.2	.....	sw.	19.9	8.9	.....	.....	2	sw.	.....	0	0	.....	Prof. Luigi Guidi.
Florence	29.46	748.2	29.70	754.4	89.6	32.0	37	sw.	.....	.....	4	.....	2	sw.	.....	0	0	.....	Prof. Costantino Pitter
Leghorn	29.61	752.1	29.69	754.2	79.9	26.6	70	s.	4.9	2.2	.....	.....	10	.....	.....	0	0	.....	Prof. P. Monte.
Rome	29.69	754.2	29.86	758.5	92.3	33.5	18	s.	19.9	8.9	.....	.....	7	.....	.....	0	0	.....	Prof. P. S. Ferrari.
Lecce	29.65	753.0	29.89	759.1	100.6	38.1	35	s.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	Prof. C. de Giorgi.
Cosenza	29.07	738.4	29.92	759.9	92.8	33.8	72	ssw.	1.3	0.6	.....	.....	0	.....	.....	0	0	.....	Prof. D. Conti.
Cagliari	29.66	753.4	29.85	758.2	87.6	30.9	38	wnw.	.....	.....	4	.....	5	w.	.....	0	0	.....	Prof. A. Pacinotti.
Palermo	29.69	754.0	29.92	760.0	88.5	31.4	37	e.	7.4	3.3	.....	.....	3	.....	.....	0	0	.....	Prof. G. Cincciatore.
Syracuse	29.84	757.8	29.88	758.9	88.9	31.6	38	sw.	7.4	3.3	.....	.....	0	.....	.....	0	0	.....	Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R.	29.41	746.9	29.89	759.3	89.6	32.0	36	sw.	8.1	3.6	.....	.....	0	.....	.....	0	0	.....	Prof. T. Brioschi.
Stelvio	22.05	560.0	.....	.....	47.5	8.6	70	w.	.....	.....	8	.....	10	.....	.....	0.583	14.8	misty	Prof. P. F. Denza.
Valdobbia	22.25	565.2	.....	.....	41.7	5.4	80	ne.	.....	.....	6	.....	10	.....	.....	1.142	29.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	K. Ogawa.
Hakodate	29.94	760.5	29.95	760.7	59.0	15.0	92	ene.	13.2	5.9	.....	.....	10	.....	.....	1.840	46.7	covered	
Hiroshima, I. M. Obs'y	.....	.....	.....	.....	68.4	20.2	97	nne.	3.2	1.4	.....	.....	10 n	.....	.....	1.433	36.4	raining	I. Sogawa.
Kanazawa	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	S. Endo.
Kioto	29.72	754.9	29.88	758.9	72.1	22.3	92	wnw.	0.6	0.3	.....	.....	10s;ck	.....	.....	0.085	2.2	cloudy	M. Tojima.
Kochi	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	K. Kusunose.
Nagasaki, I. M. Obs'y	29.69	754.0	29.88	759.0	72.0	22.2	96	ese.	0.6	0.3	.....	.....	10 s	.....	.....	3.580	90.9	overcast	S. Takeshayashi.
Nemuro	30.06	763.5	30.13	765.3	48.0	8.9	93	se.	12.0	5.4	.....	10	0	.....	.....	.....	.....	raining	
Niigata	29.86	758.4	29.90	759.4	69.3	20.7	90	se.	2.8	1.2	.....	.....	10 n	.....	.....	0.050	1.3	light rain	M. Morita.
Nobiru	29.91	759.6	29.92	760.0	66.7	19.3	90	se.	7.5	3.3	.....	.....	10 n	.....	.....	0.655	16.6	rainy	H. Midzushina.
Osaka	29.88	758.9	29.90	759.4	73.9	23.3	88	ne.	3.4	1.5	.....	.....	10 ks	.....	.....	0.026	0.7	cloudy	
Sapporo	.....	.....	.....	.....	62.5	16.9	93	se.	3.0	1.3	.....	.....	10	.....	.....	0.015	0.4	raining	
Tokei Obs'y, Yeddo	29.80	756.9	29.88	758.9	71.2	21.8	85	ssw.	13.6	6.1	.....	.....	10 n	.....	.....	0.075	1.9	raining	The Staff.
Wakayama	29.83	757.7	29.88	758.9	77.8	25.4	83	ssw.	11.7	5.3	.....	.....	9	ssw.	.....	0.026	0.7	raining	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.98	761.5	30.17	766.3	72.2	22.3	78	e.	21.0	9.4	.....	.....	10ks;n	.....	ese.	0.04	1.0	showery	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.76	603.5	29.98	761.5	59.7	15.4	95	sw.	.....	.....	.....	8 cp	1 n	.....	s.	0.079	2.0	cloudy	Prof. Vicente Fernandez.
Leon	24.38	619.2	30.03	762.7	57.9	14.4	87	nne.	.....	.....	1	6 c	0	nw.	.....	0.418	10.6	cloudy	Prof. M. Leal.
Mazatlan	29.74	755.4	30.00	762.0	78.0	25.6	88	n.	0.9	0.4	.....	9 cs	1 n	.....	w.	0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.4	30.20	767.1	55.0	12.8	82	calm	0	0	.....	1 c	0	.....	.....	0	0	fine	The Staff.
Morelia	24.19	614.5	30.25	768.4	59.5	15.3	67	se.	.....	.....	2	1	2	s.	s.	0.197	5.0	½ cloudy	M. Tena, M. D.
Orizaba	26.08	662.3	30.01	762.1	66.9	19.4	67	s.	1.7	0.8	.....	0	0	.....	.....	0	0	fine	Prof. M. M. Cházaro.
Zabellon, Aguascalientes	24.01	609.8	29.93	760.3	63.1	17.3	81	calm	.....	.....	0	4 cs	5 k	e.	e.	0.090	2.4	cloudy	M. V. de Leon, M. E
Puebla, Catholic Institute	23.50	596.9	30.29	769.4	53.1	11.7	94	calm	0	0	.....	0	0	.....	.....	0.043	1.1	clear	Prof. P. Spina.
San Luis Potosi	24.25	616.0	30.14	765.6	27.27	18.67	70	e.	.....	.....	.....	0	5	.....	e.	0	0	½ cloudy	G. Barroeta, M. D.
Zacatecas	22.65	575.3	30.27	769.1	60.4	15.8	83	ne.	5.7	2.5	.....	6 k	2 s	n.	.....	inap.	inap.	cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.67	753.6	29.67	753.6	64.4	18.0	.....	wnw.	.....	.....	4	.....	.....	.....	.....	0.445	11.3	.....	
Groningen	29.60	751.7	29.65	753.1	65.8	18.8	.....	w.	.....	.....	2	.....	.....	.....	.....	0.173	4.4	.....	
Helder	29.63	752.7	29.63	752.7	62.2	16.8	.....	sw.	.....	.....	4	.....	.....	.....	.....	0	0	.....	
Hellevoetsluis	29.74	755.4	29.74	755.4	65.8	18.8	72	wsw.	.....	.....	1	.....	.....	.....	.....	0.142	3.6	.....	
Utrecht	29.03	752.5	29.67	753.7	69.3	20.7	62	sw.	.....	.....	3	.....	8	.....	.....	0.067	1.7	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.53	750.0	29.59	751.6	62.6	17.0	64	s.	16	7	.....	.....	5	.....	.....	0.126	3.2	raining	
Brono	29.00	751.9	29.04	752.9	71.2	21.8	33	se.	22	10	.....	.....	4	.....	.....	0	0	.....	
Christiania	29.47	748.4	29.61	752.0	68.7	20.4	55	ssw.	7	3	.....	.....	4	.....	.....	0.248	6.3	.....	
Gjæsvær	29.81	757.2	29.84	757.8	62.0	17.0	.....	w.	.....	.....	2	.....	0	.....	.....	.....	.....	.....	
Lodingen	29.73	755.2	29.78	756.4	67.5	19.7	35	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	
PORTUGUESE.																			
Angra, Azores	.....	.....	.....	.....	73.8	23.2	74	wnw.	15.4	6.9	.....	.....	4	.....	.....	0	0	.....	Dr. J. A. Sampaio.
Campo Major	29.15	740.5	30.14	765.5	67.8	19.9	52	sw.	4.9	2.2	.....	.....	8	.....	.....	0.461	11.7	.....	Dr. A. M. R. dos Santos.
Funchal, Maderia	30.20	767.1	30.29	769.3	72.0	22.2	56	sw.	6.9	3.1	.....	.....	6	.....	.....	0	0	.....	Capt. D. A. de Cunha.
Lisbon, Observatory	29.86	758.4	30.22	767.5	64.9	18.3	69	sw.	11.2	5.0	.....	.....	6	.....	.....	0.303	7.7	.....	The Staff.
Ponta Delgada, Azores	30.28	769.2	30.35	771.0	75.2	24.0	66	wnw.	8.7	3.9	.....	.....	4	.....	.....	0	0	.....	
Saint Paul de Loanda	29.89	759.3	30.10	764.5	71.6	22.0	74	ene.	0.7	0.3	.....	.....	1	sse.	.....	0	0	.....	
Serra da Estrella	25.37	644.5	30.17	766.3	44.1	6.7	93	wnw.	24.8	11.1	.....	.....	9	.....	.....	0.709	18.0	foggy	
RUSSIAN.																			
Akmolinski	28.31	719.1	29.30	744.2	83.8	28.8	31	s.	7	3	.....	0	3 k	.....	.....	0.047	1.2	.....	Major K. Lasarew.
Archangel	29.80	757.0	29.82	757.5	62.8	17.1	53	wnw.	13	6	.....	0	6 ks	.....	.....	0	0	.....	Capt. Sseliwerstow.
Astrakhan	29.95	760.7	29.87	758.0	86.0	30.0	31	wnw.	13	6	.....	0	4 s	.....	.....	0	0	.....	Capt. Wisganow.
Barnaul	29.11	739.5	29.58	753.1	80.1	26.7	43	nw.	2	1	.....	.....	1	.....	.....	0	0	.....	Meteorological Obs'y.
Dorpat	29.57	751.0	29.80	756.9	70.5	21.4	59	e.	4	2	.....	8 ck	0	.....	.....	0	0	.....	Observatory.
Ekaterinburg	28.46	722.8	29.38	746.2	61.9	16.6	65	sw.	11	5	.....	.....	10 n	.....	.....	0	0	.....	Meteorological Obs'y.
Irkutsk	28.21	716.6	29.79	756.7	66.4	19.1	86	n.	2	1	.....	0	7 ks	.....	.....	0	0	.....	
Kasan	29.26	743.2	29.52	749.8	64.8	18.2	77	nw.	13	6	.....	.....	10	.....	.....	0	0	.....	Observatory.
Kertch	29.89	759.1	29.91	759.6	82.2	27.9	62	s.	20	9	.....	0	2 k	.....	.....	0	0	.....	Lagorio & Sastyrex.
Kieff	29.08	738.6	29.66	753.3	90.0	32.2	46	se.	2	1	.....	c;ck	3 k;ks	.....	.....	0	0	.....	Observatory.
Lugan	29.65	753.0	29.84	757.9	87.3	30.7	41	wsw.	34	15	.....	.....	5	.....	.....	0	0	.....	Meteorological Obs'y
Moscow	29.28	743.7	29.74	755.3	65.3	18.5	62	sw.	7.8	3.5	.....	.....	7 ks	.....	.....	.....	.....	.....	Meteorological Obs'y.
Nikolaiev	29.80	757.0	29.87	758.8	87.3	30.7	54	sw.	31	14	.....	0	0	.....	.....	0	0	.....	Capt. Kurdakow.
Nikolaievsk, on the Amoor	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Lieut. Iwanow.
Pekin, China	29.63	752.0	29.77	756.2	81.3	27.4	58	calm	0	0	.....	0	8 n	.....	.....	0.024	0.6	thund'r st'm	Physical Observatory
St. Petersburg	29.80	756.8	29.81	757.2	66.2	19.0	50	ese.	11	5	.....	0	7 kn	.....	.....	0.016	0.4	.....	Central Physical Obs'y
Semipalatinsk	28.93	734.8	29.53	750.0	89.2	31.8	29	e.	9	4	.....	.....	0	.....	.....	0	0	.....	Major Lasarew.
Tashkend, Laboratory	28.11	713.9	29.54	750.4	93.2	34.0	30	calm	0	0	.....	.....	0	.....	.....	0	0	.....	Teich, A. M.
Tiflis	28.57	725.0	29.91	759.7	83.7	28.7	48	w.	4	2	.....	0	7 k	.....	.....	0	0	.....	Physical Observatory
Vladivostock	29.84	757.9	.....	.....	59.7	15.4	82	e.	4	2	.....	.....	10 n	.....	.....	.....	.....	.....	
Warsaw	29.27	743.4	29.66	753.4	81.3	24.4	55	ne.	4	2	.....	.....	10k;ks	.....	.....	.....	.....	.....	Astronomical Obs'y
Wilna	29.30	745.8	29.76	755.9	74.1	23.4	60	sw.	2	1	.....	.....	9	.....	.....	0.748	19.0	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.46	748.2	29.73	755.1	74.5	23.6	88	ese.	7	3	.....	.....	7	.....	.....	0	0	.....	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.73	755.1	29.83	757.7	70.2	21.2	71	e.	5.8	2.6	.....	.....	4 k	.....	.....	.....	.....	.....	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.97	761.1	30.02	762.0	69.3	20.7	63	nw.	1.8	0.8	.....	2	6	w.	.....	0.018	15.7	almost cov.	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.00	685.9	29.94	760.5	58.5	14.7	52	w.	6.3	2.8	.....	.....	6	.....	.....	0.323	8.2	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.87	708.0	30.08	763.9	63.9	17.7	60	sw.	16.1	7.2	.....	0	6	.....	.....	0.587	14.9	cloudy	The Staff.
Murcia, Met. Obs'y	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Olayo Diaz, Director.
Santiago, Met. Obs'y	29.10	739.0	29.98	761.4	64.8	18.2	64	wsw.	18.6	8.3	.....	.....	9	.....	.....	0.122	3.1	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Benito Vines, S. J.
Manilla, Philippine Islands	29.78	756.4	29.84	757.8	78.8	26.0	89	s.	0.7	0.3	.....	.....	10 n	.....	se.	0.189	4.8	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.13	765.5	30.23	767.8	71.4	21.9	55	w.	9.4	4.2	.....	0	2	.....	w.	0	0	.....	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I.	30.01	762.2	30.10	764.5	79.5	26.4	86	se.	5.0	2.5	.....	4 k	4 kn	se.	se.	0.205	5.2	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.70	754.4	29.83	757.7	80.9	27.2	84	nw.	0.7	0.3	.....	3 cs	7 ks	.....	ne.	inap.	inap.	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.89	759.3	29.93	760.3	64.0	17.8	78	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	
Umea	29.77	756.1	29.82	757.4	64.4	18.0	60	sse.	.....	.....	4	.....	7	.....	.....	0	0	.....	
Hernosand	29.76	755.8	29.81	757.1	62.2	16.8	61	e.	.....	.....	2	.....	7	.....	.....	0	0	.....	
Stockholm	29.56	750.9	29.74	755.4	64.4	18.0	77	se.	.....	.....	2	.....	10	.....	.....	0.209	5.3	.....	
Wisby	29.63	752.7	29.69	754.2	66.2	19.0	83	sse.	.....	.....	2	.....	10	.....	.....	0.031	0.8	.....	

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Sub-series.																			
Upsala	29.61	752.1	29.70	754.3	65.1	18.4	80	se.	4.3	1.9			10		s.	0.016	0.4		S. G. Fineman.
SWISS.																			
Geneva	28.41	721.6	29.83	757.7	55.4	13.0	94	ssw.			2					0.685	17.4	covered	The Observatory
SCOTTISH.																			
Monach Lt			29.40	746.7	61	16.1	94	sse.			4	10	5	s.		0.1	3.		J. Youngclause.
North Unst			29.50	749.3				s.			3		fg.					foggy	
TURKISH.																			
Constantinople			29.99	761.7	75.9	24.4	57	ne.	13	6.0			0			0	0		The Observatory.
Valona			30.09	764.3	91.8	33.2		s.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.73	755.1	86.0	30.0	63	sw.			3	0	2 s		sw.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.94	760.5	30.02	762.5	71.5	21.9	84	s.	3	1.3			10 s		w.	inap.	inap.	cloudy	J. O. Barnes.
Alpena, Michigan	29.36	745.7	30.00	762.0	61	16.1	87	se.	1	0.4			10 s			0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.03	635.8	29.77	756.1	61	16.1	58	e.	4	1.8		0	3 s		calm	0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.09	688.1	29.82	757.4	50	10.0	55	sw.	22	9.8		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.02	737.1	30.17	766.3	69.5	20.8	90	calm	0	0		6 k	0	w.		0	0	fair	H. Hall.
Atlantic City, New Jersey	30.06	763.5	30.07	763.8	70.7	21.5	84	s.	11	4.9		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.00	762.0	30.20	767.1	72.0	22.2	87	calm	0	0		4 ck	0	w.		inap.	inap.	fair	John Healy.
Baltimore, Maryland	30.05	763.3	30.10	764.5	73	22.8	76	s.	4	1.8		2 cs	0	w.		0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.05	763.3	30.07	763.8	79.2	26.2	72	sw.	12	5.4		3 ck	0			0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.25	717.5	29.79	756.7	55	12.8	80	w.	22	9.8		0	0			0.03	0.8	clear	A. Pritchard.
Benton, Fort, Montana	27.15	689.6	29.86	758.4	53	11.7	50	w.	12	5.4		0	0			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	30.04	763.0	30.06	763.5	43.0	6.1		sw.	12	5.4			fg.			0	0	dense fog	Dr. L. Steineger.
Bismarck, Dakota	27.97	710.4	29.69	754.1	52	11.1	93	w.	18	8.0			10 n			1.27	32.3	light rain	Cyrus Cramer.
Block Island, Rhode Island	30.03	762.7	30.06	763.5	67.8	19.9	84	sw.	16	7.2		0	8 ks		sw.	0	0	cloudy	J. T. Eiker.
Boise City, Idaho	27.16	689.9	29.88	758.9	50	13.3	60	n.	4	1.8		2 k	0	w.		0	0	clear	B. E. Light.
Boston, Massachusetts	29.86	758.4	30.01	762.2	69.0	20.6	87	sw.	6	2.7			10 s		sw.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.88	758.9	29.92	760.0	80.0	26.7	88	s.	7	3.1		0	2 s		s.	0	0	clear	M. McCarty.
Buffalo, New York	29.30	744.2	30.04	763.0	66	18.9	92	calm	0	0			10 s			0.02	0.5	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.81	706.4	29.75	755.6	55	12.8	69	w.	18	8.0		10 cs	0	w.		0.04	1.0	cloudy	A. H. Bell.
Burlington, Vermont	29.68	753.9	29.96	761.0	70.7	21.5	80	calm	0	0		4 ck	3 s	w.	w.	0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.69	754.1	30.08	764.0	72.8	22.7	92	sw.	6	2.7			10 s		sw.	0	0	cloudy	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.10	688.3	29.69	754.1	77	25.0	42	s.			1	1 cs	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.12	765.0	30.14	765.5	70	24.4	76	sw.	8	3.6		3 k	0	s.		0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.06	763.5	30.09	764.3	71.0	21.7	84	s.	12	5.4		2 k	0	nw.		inap.	inap.	clear	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.17	766.3	30.19	766.8	82	27.8	74	s.	5	2.2			10 k		s.	0.02	0.5	cloudy	F. W. Mixer.
Champaign, Illinois	29.17	740.9	29.96	761.0	70.2	21.2	90	w.	10	4.5			10 s		sw	inap.	inap.	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.11	764.8	30.16	766.1	79	26.1	82	sw.	1	0.4		0	9 s		sw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.29	744.0	30.12	765.0	70.0	24.4	64	sw.	2	0.9		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.35	745.5	30.15	765.8	69.0	20.6	84	calm	0	0		0	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.18	614.2	29.87	758.7	40.4	4.7	54	n.	1	0.4		0	0			0.38	9.7	clear	E. McGovern.
Chicago, Illinois	29.27	743.4	29.96	761.0	68.3	20.2	83	ne.	4	1.8		4 k	0	w.		inap.	inap.	fair	J. Mitchell.
Chincoteague, Virginia	30.10	764.5	30.12	765.0	73	22.8	90	sw.	5	2.2		5 k	0			0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.42	747.3	30.06	763.5	71	21.7	90	s.	2	0.9		0	8 ks		sw.	inap.	inap.	cloudy	J. F. Harrold.
Cleveland, Ohio	29.33	745.0	30.05	763.3	68.2	20.1	89	s.	5	2.2			10 s		sw.	0.16	4.1	cloudy	J. B. Newlin.
Coleman City, Texas	28.12	714.2	29.88	758.9	78	25.6	74	se.	11	4.9		2 ck	4 s			0.02	0.5	fair	L. Dorman.
Columbus, Ohio	29.22	742.2	30.05	763.3	67	19.4	90	s.	2	0.9			10 ks		sw.	0.11	2.8	cloudy	D. Cuthbertson.
Concho, Texas	27.98	710.7	29.86	758.4	80	26.7	74	s.	12	5.4		4 k	0	s.		0	0	fair	W. W. McConihe.
Custer, Fort, Montana	26.87	682.5	29.89	759.2	52	11.1	28	w.	6	2.7		0	0			0.02	0.5	clear	V. Verge.
Davenport, Iowa	29.25	742.9	29.88	758.9	70	21.1	90	e.	5	2.2		4 cs	0	calm		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.16	639.1	29.80	756.9	71	21.7	82	sw.	12	5.4		6 ck	0			0.06	1.5	fair	J. Williams.
Dayton, Washington T'y	28.29	718.6	30.00	762.0	55.0	12.8	90	sw.	4	1.8			10 s		sw.	0	0	threatening	H. Clifford.
Deadwood, Dakota	25.40	645.1	29.82	757.4	47.0	8.3	66	s.	8	3.6		0	0			1.28	32.5	clear	G. W. Scott.
Decatur, Texas					79	26.1	59	se.	8	3.6			10 s		s.	0.04	1.0	cloudy	D. J. Carr.
Delaware Breakwater, Del.	30.07	763.8	30.09	764.3	73	22.8	84	sw.	15	6.7		3 cs	hz.	w.		0	0	clear	A. Schneider.
Denison, Texas	29.14	740.1	29.92	760.0	80.0	26.7	74	s.	10	4.5			10 s			0	0	cloudy	J. McGlone.
Denver, Colorado	24.88	631.9	29.89	759.2	51.5	10.8	39	se.	5	2.2		0	0			0.02	0.5	clear	F. M. Neal.
Des Moines, Iowa	28.92	734.6	29.80	756.9	73	22.8	84	s.	3	1.3		10 cs	0	nw.		0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.33	745.0	30.02	762.5	69.2	20.7	90	s.	6	2.7			10 s		s.	0.04	1.0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.37	695.2	29.87	758.7	62.0	16.7	100	n.	20	8.9			10 n		nw.	0.72	18.3	light rain	W. M. Mattingly.
Dubuque, Iowa	29.17	740.9	29.86	758.4	68.8	20.4	81	se.	4	1.8		0	3 k		s.	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.02	737.1	29.74	755.4	49	9.4	93	ne.	12	5.4			10s; fg		ne.	0.03	0.8	cloudy	N. B. Conger.
Eagle Pass, Texas	29.13	739.0	29.92	760.0	83.2	28.4	67	se.	3	1.3			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.40	645.1	29.95	760.7	40	4.4	67	w.	10	4.5		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.82	757.4	29.88	758.9	60.0	15.6	81	s.	3	1.3			10 n			0.01	0.3	light rain	D. C. Murphy.
Elliott, Fort, Texas	27.10	688.3	29.74	755.4	74	23.3	73	se.	4	1.8		8 k	0	se.		0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.20	665.5	29.80	756.9	76	24.4	36	nw.	10	4.5		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.32	744.7	30.03	762.7	70	21.1	84	s.	4	1.8		3 cs	0			0.14	3.6	clear	Peter Wood.
Escanaba, Michigan	29.30	744.2	29.94	760.5	61	16.1	93	calm	0	0			10 s			0	0	cloudy	C. Dill.
Fredericksburg, Texas	28.21	716.5	29.91	759.7	75	23.9	90	sw.	9	4.0		8 cs	0	sw.		0	0	cloudy	H. S. Miles.
Galveston, Texas	29.97	761.2	30.02	762.5	83	28.3	74	s.	16	7.2		2 c	6 k		sw.	0	0	cloudy	E. O'C. MacInernev.
Grand Haven, Michigan	29.34	745.2	29.99	761.7	62.5	16.9	90	s.	4	1.8			10 k		sw.	0	0	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.28	642.1	29.85	758.2	67.9	19.9	51	n.	4	1.8		0	0			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	30.13	765.3	30.15	765.8	77.0	25.0	85	n.	10	4.5		3 ck	0	e.		0	0	clear	R. M. Crawford.
Helena, Montana	25.84	656.3	29.90	759.4	40	7.8	63	calm	0	0		4 k	0			0	0	fair	S. Wheaton.
Henrietta, Texas	28.91	734.3	29.89	759.2	82.0	27.8	67	s.	14	6.3			9 s			0	0	cloudy	J. W. Byram.
Huron, Dakota	28.43	722.1	29.75	755.6	57.7	14.3	90	nw.	28	12.5			9 ks		nw.	1.68	42.7	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.26	743.2	30.03	762.7	71.5	21.9	88	s.	2	0.9			10 s		s.	0.05	1.3	cloudy	O. Schutze
Indianola, Texas	29.96	761.0	29.99	761.7	81.0	27.2	85	s.	10	4.5		0	2 k		s.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.74	730.0	29.86	758.4	79	26.1	74	se.	10	4.5			10 s		se.	0.12	3.0	threatening	J. P. Sherry.
Jacksonville, Florida	30.13	765.3	30.17	766.3	78	25.6	82	sw.	1	0.4			10 s		sw.	0.07	1.8	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.45	697.2	29.86	758.4	50	10.0	66	sw.	13	5.8		0	0			0.19	4.8	clear	W. B. Stockman.
Keokuk, Iowa	29.24	742.7	29.86	758.4	75.5	24.2	84	s.	4	1.8		6 k	0	s.		0	0	fair	F. Z. Gosewisch
Key West, Florida	30.10	764.5	30.12	765.0	86.5	30.3	52	se.	4	1.8		0	0			0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.16	766.1	30.18	766.6	75.0	23.9	97	w.	4	1.8		1 c; hz	0			0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.14	740.1	30.14	765.5	69.3	20.7	88	e.	3	1.3		0	1 s			inap.	inap.	clear	J. A. Cody.
La Crosse, Wisconsin	29.07	738.4	29.82	757.4	73	22.8	71	se.	7	3.1			10 s			0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.07	662.2	29.81	757.2	60.3	19.1	60	calm	0	0		4 c	1 s	sw.		0	0	fair	N. D. Lane.
Leavenworth, Kansas	28.97	735.8	29.83	757.7	77	25.0	76	s.	7	3.1		8 cs	0			0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.20	741.7	30.01	762.2	57.5	14.1	64	e.	1	0.4			10 s		w.	0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.72	754.9	30.03	762.7	73	22.8	97	se.	5	2.2			10 s		s.	0.36	9.1	cloudy	W. U. Simons.
Los Angeles, California	29.63	752.6	30.02	762.5	59.8	15.4	75	e.	1	0.4			10 s			0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.50	749.3	30.04	763.0	77	25.0	76	sw.	6	2.7		3 k	0	sw.		0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.44	747.8	30.11	764.8	71.0	21.7	71	calm	0	0		6 ck	2 s			0	0	cloudy	W. R. Bushby.
Macon, Fort, North Carolina	30.16	766.1	30.17	766.3	77	25.0	85	nw.	8	3.6		2 k	0	nw.		0	0	clear	F. P. Chaffee.
Madison, Wisconsin	28.95	735.3	29.93	760.2	60	18.9	90	se.	8	3.6		3 c	0	w.		0	0	fair	C. A. Shaw.
Maginnis, Fort, Montana																			H. W. Dodge.
McKavett, Fort, Texas	27.72	704.1	29.92	760.0	77	25.0	79	s.	10	4.5		4 k	0	s.		0.03	0.8	fair	J. E. Thatcher.
Marquette, Michigan	29.24	742.7	29.95	760.7	58	14.4	87	calm	0	0		4 ck	4 s	w.	w.	0.01	0.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.74	755.4	30.07	763.8	74	23.3	90	se.	7	3.1			10 s			0.01	0.3	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.23	742.4	29.96	761.0	61	16.1	100	e.	5	2.2			fg			0	0	dense fog	W. Line.

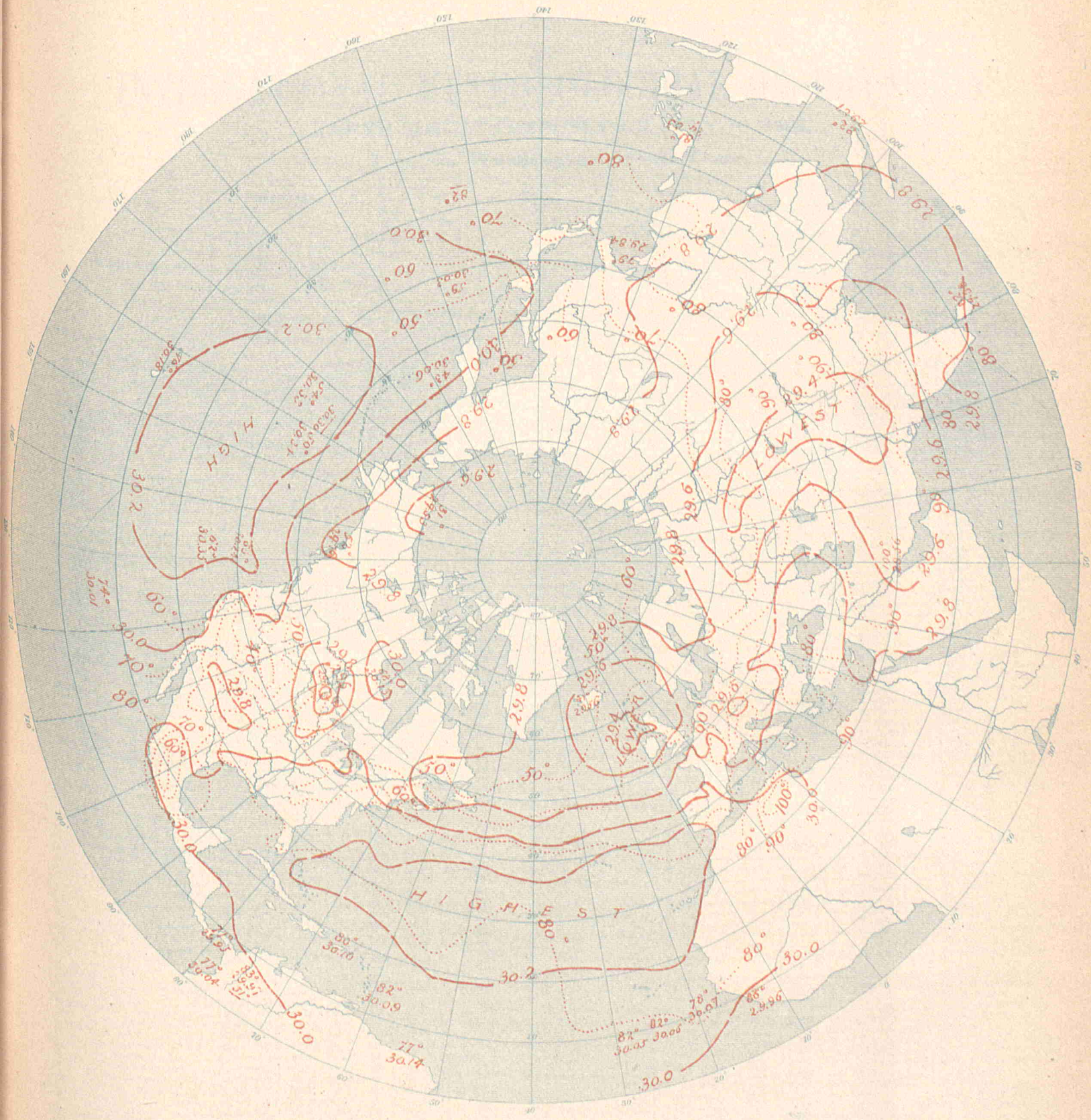
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.78	680.2	29.97	761.2	47	8.3	66	ne.	1	0.4			10 ks			0	0	cloudy	J. H. Jones.
Mobile, Alabama	30.09	764.3	30.13	765.3	77.5	25.3	87	s.	3	1.3			10 s			0.16	4.1	cloudy	C. A. Read.
Montgomery, Alabama	29.93	760.2	30.15	765.8	75.4	24.1	75	sw.	1	0.4		4 cs	0			0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.59	726.2	29.55	750.6	67	19.4	93	s.	4	1.8			10 s			0.67	17.0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.12	739.6	30.12	765.0	69.0	20.6	90	sw.	2	0.9			10 s		sw.	0.01	0.3	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.88	606.5	29.95	760.7	47.0	8.3	100	nw.	32	14.3			fg.		nw.	0.13	3.3	dense fog	J. G. Linsley
Nashville, Tennessee	29.59	751.6	30.11	764.8	74.0	23.3	76	calm	0	0		0	hz.			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.97	761.2	30.08	764.0	69	20.6	90	sw.	4	1.8		8 cs	hz	sw.		0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.01	762.2	30.06	763.5	70	21.1	76	sw.	5	2.2		7 k	0	w.		0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.09	764.3	79.0	26.1	91	se.	5	2.2		5 k	5 s	nw.	nw.	0.66	16.8	cloudy	L. Dunne.
Newport, Rhode Island	30.01	762.2	30.06	763.5	66.0	18.9	90	sw.	12	5.4		7 k	2 ks	nw.	sw.	0	0	cloudy	W. McGillivray.
New York, New York	29.90	759.4	30.07	763.8	70	21.1	84	sw.	7	3.1		4 cs	4 s	sw.	sw.	0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	30.11	764.8	30.14	765.5	77	25.0	82	w.	5	2.2		0	3 s; hz			0	0	clear	H. L. Kemp.
North Platte, Nebraska	27.12	688.8	29.92	760.0	54.6	12.6	78	nw.	6	2.7		0	5 s			0.33	8.4	fair	E. F. Brady.
Olympia, Washington T'y	30.03	762.7	30.07	763.8	54.0	12.2	77	sw.	3	1.3			10 s		calm	0.01	0.3	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.51	749.5	29.53	750.0	30.5	— 0.8	100	w.	13	5.8			fg.			0	0	dense fog	P. H. Ray.
Omaha, Nebraska	28.70	729.0	29.83	757.7	70.0	21.1	97	n.	3	1.3			10 n			0.47	11.9	thund'r st'm	A. Pollak.
Oswego, New York	29.70	754.4	30.02	762.5	69.0	20.6	84	w.	2	0.9			10 s		w.	0.01	0.3	cloudy	S. W. Beall.
Palestine, Texas	29.47	748.5	30.01	762.2	79.0	26.1	91	se.	10	4.5			10 ks		s.	0.01	0.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.10	764.5	30.13	765.3	77.1	25.1	97	calm	0	0			10 s			0.03	0.8	cloudy	M. McGauran.
Philadelphia, Pa	29.99	761.7	30.09	764.3	74.5	23.6	82	sw.	5	2.2		1 cs	0	s.		0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.96	456.2	29.74	755.4	32	0.0	50	w.	37	16.5		0	hz.			0.01	0.3	clear	L. M. Dey.
Ploche, Nevada	24.18	614.2	29.91	759.7	53.2	11.8	27	nw.	6	2.7		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.27	743.4	30.06	763.5	68.0	20.0	90	se.	1	0.4			10 s		sw.	0.23	5.8	cloudy	J. H. Bryce.
Poplar River, Montana	27.72	704.1						nw.			6	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.12	765.0	30.14	765.5	81.0	27.2	85	s.	4	1.8		0	4 k		s.	0	0	fair	M. Hermann.
Port Huron, Michigan	29.33	745.0	29.99	761.7	68.5	20.3	91	s.	4	1.8			10 s			0.03	0.8	cloudy	W. O. Bailey.
Portland, Maine	29.87	758.7	29.92	760.0	71.5	21.9	73	w.	11	4.9		7 k	0	w.		0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.07	763.8	30.14	765.5	55.0	12.8	74	s.	4	1.8			10 s		s.	0.02	0.5	cloudy	M. L. Hearne.
Prescott, Arizona	24.83	630.7	29.82	757.4	62	16.7	65	s.	2	0.9		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass	29.98	761.5	30.01	762.2	68.0	20.0	84	sw.	8	3.6		3 k	4 s	sw		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.14	765.5	30.16	766.1	74.5	23.6	82	e.	5	2.2		5 c	1 k	calm	calm	0.09	2.3	fair	W. J. Evans.
Red Bluff, California	29.56	750.8	29.92	760.0	68.2	20.1	34	n.	2	0.9		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.59	751.6	29.82	757.4	82	27.8	74	se.	9	4.0		0	4 ks		se.	0	0	fair	P. M. Wilson.
Rochester, New York	29.37	746.0	30.02	762.5	66	18.9	100	w.	6	2.7			10 s; fg		w.	0.02	0.5	cloudy	E. W. McGann.
Roseburg, Oregon	29.60	751.8	30.14	765.5	48	8.9	86	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.83	757.7	29.90	759.4	64.2	17.9	58	e	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.40	746.7	29.98	761.5	73.0	22.8	97	s.	6	2.7		0	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	28.86	733.0	29.70	754.4	68	20.0	90	s.	18	8.0			10 s		s.	inap.	inap.	cloudy	P. F. Lyons
St. Vincent, Minnesota	28.53	724.6	29.37	746.0	61	16.1	96	n.	1	0.4			10 n			0.26	6.6	light rain	G. Kingsbury.
Salt Lake City, Utah	25.82	655.8	30.00	762.0	47	8.3	44	se.	4	1.8		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.34	745.2	30.02	762.5	80.0	26.7	82	se.	6	2.7		4 k	3 ks	calm	s.	0	0	fair	T. J. Kenan.
San Diego, California	29.92	760.0	29.99	761.7	61.4	16.3	77	s.	4	1.8			fg.		se.	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.36	745.7	30.02	762.5	68.2	20.1	90	s.	6	2.7			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.04	763.0	30.06	763.5	75.0	23.9	76	sw.	6	2.7			10 ks		sw.	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.90	759.4	29.97	761.2	54	12.2	83	sw.	9	4.0		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.32	592.3	29.82	757.4	61	16.1	50	ne.	6	2.7		3 c	0	sw.		inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	30.08	764.0	30.17	766.3	78.5	25.8	69	sw.	6	2.7		7 ck	0	sw.		0.03	0.8	fair	H. W. Ford.
Shaw, Fort, Montana	26.34	669.0	29.85	758.2	53	11.7	47	sw.	21	9.4		8 cs	0	w.		0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.80	756.9	30.02	762.5	77	25.0	90	s.	5	2.2			10 s		s.	inap.	inap.	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.64	727.4	29.84	757.9	80.3	26.8	66	s.	14	6.3		4 k	0			0	0	fair	T. Cleary.
Silver City, New Mexico	24.38	619.2	29.84	757.9	62	16.7	42	nw.	4	1.8		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.70	754.4	29.76	755.9	51.5	10.8	78	e.	6	2.7			10 ks		e.	0.35	8.9	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.49	749.0	29.95	760.7	77.3	25.2	82	e	6	2.7		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.13	765.3	30.16	766.1	75	23.9	82	nw.	5	2.2		8 cs	1 k	w.		0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.95	709.9	29.93	760.2	55	12.8	57	s.	12	5.4			10 s		w.	0	0	cloudy	D. Moore.
Springfield, Illinois	29.30	744.2	29.96	761.0	71.5	21.9	93	s.	8	3.6			10 s		s.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.90	759.4	30.03	762.7	72.0	22.2	84	s.	5	2.2		10 k	0	sw.		0	0	cloudy	T. S. Outram.
Springfield, Mo	28.55	725.2	29.94	760.5	73.5	23.1	84	s.	10	4.5			10 k		s.	0.03	0.8	cloudy	J. B. Marbury.
Starkville, Miss	29.66	753.4	30.12	765.0	75.1	23.9	85	se.	3	1.3			10 ks		s.	0.05	1.3	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	27.91	708.9	29.69	754.1	53	11.7	100	sw.	6	2.7			10 n			0.95	24.1	light rain	W. Burrows
Stockton, Fort, Texas	26.89	683.0	29.83	757.7	71.5	21.9	76	s.	2	0.9		2 cs	4 s	calm	calm	0.22	5.6	fair	J. O'Dowd.
Thatcher's Island, Mass	29.93	760.2	29.98	761.5	69.0	20.6	81	sw.	9	4.0		2 k	0	w.		0	0	clear	G. Liebmann.
Toledo, Ohio	29.33	745.0	30.00	762.0	70	21.1	90	w.	6	2.7			10 s		w.	0.02	0.5	cloudy	A. Buell.
Tucson, Arizona	27.55	699.8	29.87	758.7	72	22.2	64	s.	2	0.9		2 c	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.70	754.4	30.06	763.5	61	16.1	50	w.	13	5.8			10 s		w.	0.01	0.3	cloudy	J. Daly.
Uvalde, Texas	28.97	735.8	29.91	759.7	80	26.7	79	s.	5	2.2			10 ks		s.	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona					67.2	19.6	66	nw.			1	0	0			0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.85	758.2	30.09	764.3	73	22.8	97	se.	1	0.4			10 s			0.77	19.6	cloudy	H. P. Brisbane.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.62	625.3	29.94	760.5	35.5	1.9	74	w.	3	1.3		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	29.99	761.7	30.10	764.5	73.5	23.1	71	sw.	3	1.3		1 cs	0	sw.		0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.16	664.5	29.92	760.0	60.9	16.1	20	ne.	8	3.6		0	2 s			0	0	clear	F. W. Brandenburg.
Williamsport, Pa	29.46	748.3	30.04	763.0	71	21.7	79	calm	0	0		0	8 ks		w.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.11	764.8	30.16	766.1	75	23.9	85	w.	1	0.4		5 cs	0	w.		0.62	15.7	fair	A. T. Sherwood.
Winnemucca, Nevada	25.77	654.5	29.99	761.7	41	5.0	28	ne.	3	1.3		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.58	725.9	29.85	758.2	60	15.6	81	w.	22	9.8			10 ks		sw.	0.80	20.3	cloudy	J. H. Attield.
Yuma, Arizona	29.69	754.1	29.83	757.7	73.8	23.2	60	e.	1	0.4		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.08	560.8			50.5	10.3	82	w.	1	0.4			10 n; s		s.	0.13	3.3	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.08	764.0	30.09	764.3	82	27.8	91	e.				2 c	5 ks			0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.01	762.2	30.04	763.0	77	25.0	90	calm	0	0			10 ks		calm	0.70	17.8	cloudy	J. I. Plume.
Kingston, Jamaica, W. I.	30.11	764.8	30.12	765.0	80.9	27.2	72	w.	1	0.4		7ck; cs	2 ks		e.	0	0	cloudy	Robert Johnston.
Magua, San Domingo, W. I					73	22.8		ne.			5	0	0			0	0		S. M. Pike.
Navassa	29.99	761.7	30.07	763.8	80.5	26.9	82	e.	8	3.6		7 n	2 s	se.	e.	0	0	cloudy	F. M. Everett.
Paramaribo, S. A.	30.14	765.5	30.14	765.5	77	25.0	86	e.			2	4 c	5 k	e.		0.020	0.5		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.42	747.3	29.97	761.2	83	28.3	80	s.			1	5 c	2 k	calm	calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							96	ne.			1	8 cs	0	ne.		0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.08	764.0	30.10	764.5	79	26.1	78	calm	0	0		1 c	0			0	0	clear	Robert Mason.
York Factory, B. A.	30.06	763.5	30.13	765.3	68.0	20.0	79	nw.	14	6.3		2 c	0	nw.		0	0	fair	Fortesque & Wood

Stations and Vessels	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, S. 22° 57′, E. 2° 54′	30.36	771.1	65.5	18.6	70	ese.			3-4		9							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.81	757.2	78	25.6	86	wnw.			3		0					2	wnw.	blue sky.
H. M. S. Amethyst, Montevideo, Uruguay	30.03	762.7	57	13.9	90	s.			3		10							overcast.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.96	761.0	77	25.0		n.			3									blue sky.
H. M. S. Bacchante, Valencia, Spain	29.97	761.2	77	25.0	86	wnw.			4		2	wnw.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.42	772.7	62	16.7		sw.			1-2		2	sw.						d. clouds.
H. M. S. Champion, N 26° 10′ E. 150° 30′			82	27.8	7	ene.			4		2					3	e.	d. clouds.
H. M. S. Comus, N. 44° 28′, E. 150° 00′	30.13	765.3	50	10.0	100	ene.			3		10					3	e.	foggy.
H. M. S. Diamond, S. 4° 13′, E. 152° 11′	29.88	758.9	80	26.7	86	calm			0		9	se.						d. clouds.
H. M. S. Dido, N. 13′, 05° W. 59° 30′	30.14	765.5	80	26.7		ese.			3		3	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.25	768.3	79	26.1	78	sse.			1-2		7	sse.						d. clouds.
H. M. S. Druid, N. 17° 55′, W. 76° 45′	30.08	764.0	82.5	28.1	85	e.			3-4		7	e.				3	ese.	squally.
H. M. S. Eclipse, S. 12° 00′, E. 40° 46′	30.14	765.5	79	26.1		wsw.			1		5					2	ene.	d. clouds.
H. M. S. Emerald, S. 13° 40′ W. 17° 35′	30.23	767.8	72	22.2	85	ese.			3-4		4	ese.				2	ese.	d. clouds.
H. M. S. Euryalus, N. 6° 00′, E. 80° 00′	29.83	757.7	82	27.8		w.			3		5	w.				3	sw.	d. clouds.
H. M. S. Espiegle, S. 15° 35′ E. 168° 03′	29.95	760.7	75	23.9	90	ese.			2-4		2							squally.
H. M. S. Fantome, Saint Lucia, Jamaica	30.07	763.8	82	27.8		ne.			2		3	ne.						d. clouds.
H. M. S. Fawn, S. 27° 05′, E. 34° 00′	30.15	765.8	69.5	20.8	66	ssw.			5		3					6	ssw.	d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.09	764.3	58.5	14.7	90	ne.			1		10							drizzling.
H. M. S. Garnet, S. 17° 50′, W. 19° 20′	30.31	769.9	72	22.2	85	e.			4		6							d. clouds.
H. M. S. Griffon, N. 51° 12′, W. 58° 40′	29.46?	748.3?	48	8.9	100	n.			5		10							raining.
H. M. S. Iris, Port Said, Egypt	29.96	761.0	82	27.8	78	nw.			3		0					1	wnw.	blue sky.
H. M. S. Iron Duke, N. 41° 46′, E. 140° 42′	29.91	759.7	59	15.0	94	ese.			4		10					3	e.	squally.
H. M. S. Kingfisher, San Francisco, Cal.	29.96	761.0	63	17.2		calm			0		8							d. clouds.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.94	760.5	77.3	25.2	98	se.			1		0							blue sky.
H. M. S. Liffey, Coquimbo, Chili	30.11	764.8	53.5	11.9		ne.			1		10							d. clouds.
H. M. S. Magpie, N. 33° 56′, E. 132° 00′	29.87	758.7	71.0	21.7	90	sw.			1-2		10							misty.
H. M. S. Minotaur, N. 35° 55′ E. 17° 05′	29.99	761.7	81	27.2	74	wnw.			1		0							blue sky.
H. M. S. Nelson, S. 36° 50′, E. 174° 49	29.71	754.6	58	14.4	93	calm			0									raining.
H. M. S. Northampton, Halifax, Nova Scotia	29.87	758.7	63	17.2	86	calm			0		10	wnw.						overcast.
H. M. S. Orion, N. 48° 15′, W. 6° 01′.	29.78	756.4	61.5	16.4		wsw.			4		2	wnw.				4	w.	d. clouds.
H. M. S. Orontes, N. 36° 30′, W. 1° 20′	30.11	764.8	69.5	20.8	93	wsw.			5		0					3	wsw.	blue sky.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.87	758.7	81.5	27.5	91	sw.			1		9							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Island	30.21	767.3	67	19.4	94	e.			2		7							showery.
H. M. S. Rocket, Vancouver Island, B. A	30.02	762.5	52	11.1	93	wsw.			3		9							raining.
H. M. S. Sappho, S. 21° 10′, W. 145° 00′	30.02	762.5	72.5	22.5		nnw.			4		1	ne.				3	nw.	blue sky.
H. M. S. Swiftsure, Rio de Janeiro, Brazil	30.30	769.6	70.5	21.4	80	wnw.			1		4							foggy.
H. M. S. Sylvia, Montevideo, Uruguay	30.08	764.0	53.5	11.9	93	s.			3		10							foggy.
H. M. S. Tenedos, N. 47° 54′ W. 59° 27′	29.77	756.1	56	13.3	93	ssw.			2		10					1	ssw.	showery.
H. M. S. Triumph, Talcahuano, Chili	30.34	770.6	45	7.2	92	s.			1		2	w.						d. clouds.
H. M. S. Woodlark, Off Bassorah, Asiatic Turkey	29.46	748.3	99.5	37.5	39	nw.			2		0							blue sky.
H. M. S. Cruiser, Zephyr, N. 23° 00′, E. 117° 10′	29.83	757.7	83	28.3	100	s.			2		0					1	s.	blue sky.
Portuguese Naval.																		
Rio Lima, Fogo, Cape Verd Islands	30.14	765.6	76.1	24.5	94	n.			5		0					4	n.	blue sky.
Tamega, Macao, China	29.85	758.1	86.9	30.5	82	ssw.			3		0							blue sky.
Swedish Naval.																		
Saga, N. 62° 52′, E. 5° 02′	29.57	751.1	56.7	13.7	98	ssw.			2		1							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.05	763.3	79	26.1	95	calm	0	0			10							sprinkling.
Navy Yard, Portsmouth, N. H.	29.97	761.2	72	22.2	76	nw.	12	5.4			5		nw.	0	0			fair.
Naval Hospital, Yokohama, Japan*	29.73	755.1	72.5	22.5	92	sw.			4		10		sw.	0.01	0.3			raining.
Adams, Mare Island, Cal	29.90	761.0	59	15.0	100	sw.			1-2		0			0	0	sm'h		clear.
Alaska, Callao, Peru	29.98	761.5	59	15.0	88	ne.			1		10			0	0	sm'h		cloudy.
Alert, N. 46° 32′, W. 158° 54′*	30.19	766.8	50	10.0	86	wnw.			5		10		wnw.	0	0	long	wnw.	misty.
Alliance, Boston, Mass*†	29.97	761.2	70	21.1	90	w.			2		8			light	light			cloudy.
Ashuelot, Yokohama, Japan*	29.81	757.2	74	23.3	81	ssw.			3		10		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.34	770.6	66	18.9	94	nw.			3		8		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.03	762.7	73	22.8	81	sw.	5	2.2			10		sw.	0	0			cloudy.
Constellation, N. 38° 08′, W. 72° 47′*	30.16	766.1	72	22.2	90	sw.			3		0					sm'h		clear.
Enterprise, New York, N. Y*	30.05	763.3	74	23.3	86	se.			2		10		sw.					cloudy.
Essex, S. 51° 46′, W. 78° 12′	29.43	747.5	44	6.7	84	w.			4-6		2		w.			mod	w.	squally.
Franklin, Norfolk, Va	30.16	766.1	75	23.9	90	sw.	7.2	3.2			2		sw.	0	0			fair.
Galena, Alexandria, Egypt	29.82	757.4	80	26.7	91	nw.			3		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	29.96	761.0	61	16.1	82	sw.			2		0			0	0			clear.
Iroquois, San Francisco, Cal	29.94	760.5	58	14.4	70	wsw.			1		0			0	0			clear.
Kearsarge, Norfolk, Va	30.15	765.8	75	23.9	95	wnw.			1		5		calm					fair.
Lackawanna, Callao, Peru*	30.02	762.5	60	15.6	88	ene.			1		10							cloudy.
Lancaster, Alexandria, Egypt*	29.80	756.9	80	26.7	91	nw.			3		0			0	0			clear.
Marion, S. 34° 54′, W. 56° 13′	30.03	762.7	57	13.9	100	sse.			3		10			light	light	sm'h		overcast.
Michigan, Detroit, Mich	29.97	761.2	68	20.0	95	w.			1		10		w.					cloudy.
Minnesota, Newport, R. I.	30.11	764.8	65	18.3	94	sw.	3	1.3			8		w.					cloudy.
Monocacy, Chefoo, China	29.84	757.9	79	26.1	70	sw.			1		2		calm			sm'h		fair.
New Hampshire, Newport, R. I.	30.09	764.3	65	18.3	94	sw.			1		2		w.			sm'h		fair.
Nipsic, N. 34° 57′, E. 23° 32′*	29.80	756.9	81	27.2	45	wnw.			2		0					sm'h		clear.
Onward, Callao, Peru†	30.15	765.8	59	15.0	88	ese.			2		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.77	759.1	76	24.4	91	sw.			2		10		sw.					cloudy.
Passaic, Washington, D. C.	30.08	764.0	74	23.3	95	w.			2		2							fair.
Pensacola, N. 6° 13′ W. 79° 38′*	29.86	758.4	79	26.1	82	w.			3		8		sw.	0.10	2.5	long	s.	fair.
Portsmouth, Lisbon, Portugal*	30.14	765.5	66	18.9	84	wsw.			5		2							clear.
Powhatan, N. 26° 44′, W. 84° 05′	30.11	764.8	85	29.4	68	se.			2		2		se.			sm'h		clear.
Quinnebaug, Alexandria, Egypt	29.82	757.4	78	25.6	86	nw.			3		0					sm'h		misty.
Ranger, Mare Island, Cal	29.94	760.5	62	16.7	65	ssw.			2-3		0			0	0			clear.
Richmond, Yokohama, Japan*	29.81	757.2	75	23.9	81	ssw.			4		10			0.02	0.5			raining.
Saratoga, Lisbon, Portugal	30.15	765.8	67	19.4	79	w.			2-3		2		w.	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.29	769.4	75	23.9	82	sw.			2		0			0	0			clear.
Swatara, Yokohama, Japan*	29.74	755.4	75	23.9	77	ssw.			3		10		calm			sm'h		light rain.
Tennessee, New York, N. Y.	30.10	764.5	75	23.9	81	sw.	6	2.7			10			0	0			cloudy.
Vandalia, Portsmouth, N. H*	29.95	760.7	74	23.3	81	wsw.			1		8		nnw.					fair.
Wabash, Boston, Mass	30.01	762.2	68	20.0	90	sw.	6	2.7			8		sw.	0	0			cloudy.
Wachusetts, Highfield Harbor, Alaska†	30.06	763.5	49	9.4	93	ne.			1		10			0	0	sm'h		foggy.
Wyoming, Port Royal, S. C*	30.16	766.1	76	24.4	86	wsw.	6	2.7			8		w.	0.1	3.			cloudy.
Yantic, off Fort Point, Maine	29.92	760.0	60	15.6	94	nnw.			1		10							cloudy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Allan Line.																		
S. S. Circassian, N. 49° 22′, W. 63° 31′*	29.66	753.4	55	12.8	100	w.			5		8		w.	0.02	0.5	2	w.	raining.
S. S. Grecian, N. 51° 13′, W. 57° 13′*	29.72	754.9	46	7.8		e.			2		10		e.	0	0			overcast.
S. S. Scandinavian, N. 45° 50′ W. 49° 15′*	29.76	755.9	50	10.0		w.			6		0			12 h'r	12 h'r	short	wsw.	misty.
S. S. Waldensian, Glasgow, Scotland*	29.43	747.5	60	15.6		var.			3		8		w.	0	0			clear.
American Steamship Company.																		
S. S. Lord Clive, Off Mine Head, Ireland*†	29.55	750.6				sw.			4		1		sw.	0	0			fine.
S. S. Lord Gough, N. 50° 43′, W. 26° 51′	29.73	755.1	57	13.9		w.			5		8		w.	0	0	long	nw.	fair.
S. S. Pennsylvania, N. 39° 44′, W. 53° 33′†	30.19	766.8	76	24.4		wnw.			3		1		w.			sm'h	w.	blue sky.
Anchor Line.																		
S. S. Assyria, N. 40° 05′, W. 22° 08′*†	30.32	770.1	70	21.1		w.			6		5		w	0	0	r'gh	w.	squally.
S. S. Devonia, N. 55° 07′, W. 12° 48′†	29.37	746.0	59	15.0		wsw.			2		6?		wsw.			mod.	w.	clear?
S. S. Gallatia, N. 37° 11′ E. 7° 52′†	30.22?	767.6?	78.3	25.7		nw.			3		2		nw.	0	0	sm'h	nw.	clear.
Atlas Line.																		
S. S. Alvo, Off Port Royal, Jamaica, W. I.	30.10	764.5				se.			5		5			0	0	mod.	se.	fair.
Boston and Halifax Line.																		
S. S. Carroll, N. 43° 11′, W. 67° 30′†	29.91	759.7	60	15.6		w.			3				wnw.	0	0	small	w.	
British Meteorological Office.																		
Auckland, N. 9° 40′, W. 24° 34′	30.06	763.5	82	27.8	87	n.			4		6							blue sky.
S. Baroda, S. 29° 50′, E. 33° 32′	30.16	766.1	67.8	19.9	79	wsw.			8		6							d. clouds.
S. S. City of Agra, N. 10° 00′, W. 23° 50′	30.09	764.3	80.5	26.9	98	n.			4		8							d. clouds.
S. S. Cipero, N. 22° 26′, W. 54° 20′	30.27	768.8	79.6	26.4	78	ese.			2		3							d. clouds.
S. S. Glencairn, N. 31° 08′, W. 42° 10′	30.46	773.7	83	28.3	74	se.			2		4							d. clouds.
S. S. Gordon Castle, N. 37° 31′, E. 7° 13′	30.00	762.0	80.8	27.1	70	w.			6		0							misty.
S. S. Markland, S. 30° 48′, W. 134° 04′	30.20	767.1	63	17.2	83	n.			4		9					3	e.	d. clouds.
May Hulse, S. 16° 56′, W. 23° 52′	30.27	768.8	70	21.1	95	e.			3		10							showery.
S. Oamarn, S. 30° 44′, E. 32° 40′	30.14	765.5	66.5	19.2	68	sw.			8		6							d. clouds.
Pole Star, N. 13° 58′ W. 32° 07′	30.17	766.3	77.3	25.2	86	ne.			5		8							showery.
S. S. Rosette, N. 27° 25′, E. 121° 20′	29.82	757.4	79.5	26.4	91	se.			2		8							d. clouds.
California and Mexican Steamship Coepany.																		
S. S. Mexico, N. 32° 25′, W. 117° 28′*†	29.97	761.2	58	14.4	81	wsw.			2		0			0	0	mod.	wnw.	clear.
Cromwell Line.																		
S. S. Hudson, N. 37° 50′, W. 74° 15′†	30.18	766.6	69	20.6		ssw.			3		0			0	0	mod.	sw.	clear.
Cunard Line.																		
S. S. Bothnia, N. 43° 13′, W. 46° 37′	30.04	763.0	70	21.1	90	w.			3		3		w.	3 h'r	3 h'r	mod.	wsw.	clear.
S. S. Gallia, N. 41° 20′, W. 59° 52′	30.12	765.0	72	22.2	95	w.			3		2		w.	0	0	sm'h		fine.
S. S. Marathon, N. 42° 29′, W. 64° 10′	30.02	762.5	59	15.0		wsw.			3		1			0	0	sm'h	w.	fine.
General Trans-atlantic Company.																		
S. S. France, N. 41° 46′, W. 55° 28′.†	29.99	761.7	69.8	21.0		w.			5	ck		w.		0	0	hv'y	w.	covered.
S. S. Ville de Marseilles, Marseilles, France*†	29.75	755.0	80	26.7		nw.			4		2		nw.	1 h'r	1 h'r			clear.
Guion Line.																		
S. S. Arizona, N. 41° 09′, W. 64° 46′	30.10	764.5	65	18.3		calm			0		0			0	0	sm'h		blue sky.
Hamburg American Packet Company.																		
S. S. Bohemia, Hamburg, Germany†	29.70	754.4				w.			4		5		w.	0	0			
S. S. Gellert, N. 40° 51′, W. 56° 53′	30.18	766.0	74	23.3		wsw.			2		2		wsw.	4 h'r	4 h'r	sm'h	wsw.	fair.
S. S. Herder, New York, N. Y*†	30.02	762.5	70	21.1		sw.			1		2		ssw.	0	0			clear.
S. S. Silesia, N. 45° 51′, W. 33° 23′†	29.96	761.0				ssw.			6		8			4 h'r	4 h'r	6	w.	foggy.
Inman Line.																		
S. S. City of Berlin, N. 50° —′, W. 23° 30′	29.71	754.6				w.			3		6		w.	shr's	shr's	mod.	w.	fair.
Lampert and Holt's Line.																		
S. S. Hevelius, N. 23° 00′, W. 22° 10′*†	30.41	772.4	76	24.4		e.			3		7		ene.	0	0	sm'h		cloudy.
Mallory Line.																		
S. S. Colorado, Galveston Bar, Texas †	30.08	764.0	82	27.8		ssw.			3		2		ssw.	0	0	h'vy	ssw.	clear.
Mediaerrenean and New York Steamship Co.																		
S. S. Archimede, N. 35° 09′, W. 21° 04′*†	30.37	771.4	72	22.2	90	nnw.			3		1		n.	0	0	long	nw.	clear.
Merchants' Express Line.																		
S. S. Freja, N. 41° 41′, W. 52° 38′†	30.22	767.6	73	22.8	90	w.			4		2			4 h'r	4 h'r	mod.	sw.	
Merchants' Steamship Company.																		
S. S. Glenfyne, S. 23° 10′, W. 40° 23′	29.86	758.4				ne.			3				e.	0	0	mod.	ne.	fine.
S. S. Glenapp, N. 34° 40′, W. 71° 02′†	30.31	769.9				wsw.			3		6		w.	0	0	sm'h		fine.
Morgan Line.																		
S. S New York, N. 38° 20′, W. 74° 20′†*	30.18	766.6	70	21.1		s.			1				s.	0	0		s.	clear
National Line.																		
S. S Denmark, N. 51° 19′, E. 1° 28′	29.67	753.6	58	14.4		ssw.			5		5		sw.	4 h'r	4 h'r			fine.
S. S. England, N. 48° 45′, W. 27° 15′	29.79	750.7				w.			4		0			0	0	mod.	w.	clear.
S. S. Erin, Liverpool, Eng	29.59	751.0	57	13.9		nw.			6		3		nw.	2 h'r	2 h'r			fine.
S. S. Greece, N. 50° 00′ W 4° 30′	29.05	753.1				ssw.			2		2		ssw.	2 h'r	2 h'r	sm'h	nnw.	clear.
New York and Cuba Mail Steamship Company.																		
S. S. Santiago, N. 31° 53′. W. 74° 00′†	30.30	769.6	79	26.1		sw.			1		7		w.	0	0	sm'h		cloudy.
S. S. Saratoga, N. 37° 30′, W. 74° 45′†	30.38	771.6	76	24.4	86	s.			4		3		ssw.	0	0	sm'h		hazy
New York, Havana and Mexican Mail.																		
S. S. City of Alexandria, Progresso Roads, Mexico†	30.16	766.1	79	26.1	86	ese.			2		5		ne.	0	0			fair.
S. S. City of Washington, N. 24° 35′, W. 80° 34′*†	30.20	767.1	85	29.4		ese.			2		8		se.	2 h'r	2 h'r	light	se.	fine.
New York Herald Weather Service.																		
S. S. State of Nebraska, N. 55° 18′, W. 8° 44′.†	29.42	747.3	59	15.0		var.			1								wsw.	showery.
North German Lloyd																		
S. S. Habsburg, N. 40° 27′, W. 60° 26′	30.17	766.3	75.2	24.0		w.			2		2		w.	2 h'r	2 h'r	sm'h	w.	fair.
S. S. Hermann, N. 41° 12′, W. 56° 28′	30.14	765.5	73.4	23.0		wsw.			4		2		wsw.	½ h'r	½ h'r	high	wsw.	fair.
S. S. Hohenzollern, N. 39° 39′, W. 63° 23′*	30.15	765.8	68.9	20.5		sw.			0–1		1		sw.	0	0	sm'h	sw.	clear.
S. S. Leipzig, N. 47° 33′, W. 23° 11′	29.81	757.2	60.0	15.6	89	nnw.			1		8		nw.	8 h'r	8 h'r	long	nw.	fair.
S. S. Mosel, N. 46° 58′, W. 34° 14′	29.81	757.2	51.8	11.0		sw.			6		10		w.	7 h'r	7 h'r	long	wsw.	rainy.
S. S. Ohio, Bremerhaven, Germany	29.05	753.1				wnw.			4		4?		nw.	10 h'r	10 h'r			cloudy?
S. S. Rhien, N. 49° 22′, W. 20° 46′	29.72	754.9				wnw.			3		2		wnw.	0	0	long	wnw.	fair.
S. S. Saller, New York, N. Y.	30.10	764.5	65.3	18.5		sw.			2		5?		sw.	0	0			cloudy?
S. S. Strassburg, N. 49° 30′, W. 11° 45′	29.64	752.8	67.5	19.7	62	w.			4–5		7		w.	3 h'r	3 h'r	mod.	w.	cloudy.
Occidental and Oriental Steamship Company.																		
S. S. Arabic, N. 34° 12′, E. 137° 57′*†	29.86	758.4	74	23.3	95	var.			1		2		s.	0	0	sm'h		d clouds.
S. S. Belgic, San Francisco, Calf	30.00	762.0	58	14.4	81	sw.			4		2		sw.				sw.	clear.
S. S. Coptic, N. 32° 20′, E. 133° 32′	29.98	761.5	71.0	21.7	?	sw.			3		4		sw.	0	0	2	w.	d. clouds.
S. S. Gaelic, N. 41° 14′, W. 130° 49′†	30.24	768.1	66	18.9	78	wnw.			4		7		wnw.			mod.	w.	overcast.
S. S. Oceanic, Hong Kong, China*	29.69	754.1	87	30.6	69	e.			1		5		e.					fine.
Ocean Steamship Company.																		
S. S. City of Augusta, N. 34° 00′, W. 77° 01′†	30.21	767.3				wnw.			3		8?		sw.	0	0	sm'h		clear.?
S. S. City of Columbus, New York, N. Y †	30.08	764.0				sw.			2		0			0	0			clear.
S. S. Seminole, N. 35° 25′, W. 75° 15′†	30.22	767.6	76	24.4	90	nnw.			1		1		nw.	0	0	sm'h	sw.	clear.
Oregon Railway and Navigation Company.																		
S. S. Oregon, San Francisco, Calf	30.05	763.3	58	14.4	81	calm			0		0							clear.
Pacific Coast Steamship Company.																		
S. S. Ancon, San Pedro Bay, Calf	29.96	761.0	61	16.1	88	sse.			1		10		se.			sm'h		cloudy.
S. S. State of California, N. 43° 47′, W. 124° 20′†	30.18	766.6	52	11.1	86	calm			0		0					sm'h	nw.	clear.
S. S. Victoria, N. 43° 10′ W. 124° 42′.†	30.12	765.0	53	11.7	93	calm			0		0			0	0			fair.
Pacific Mail Steamship Company.																		
S. S Australia, Sydney, N. S. W	30.16	766.1	54	12.2	87	calm			0		5?		ne.	0	0			clear?
S. S. City of New York, Honolulu, Sandwich I'ds†	30.18	766.6	76	24.4	86	ese.			1		2		ese.	0	0	sm'h		clear.
S. S. City of Pekin, N. 41° 06′, E. 153° 54′†	30.03	762.7	59	15.0	100	e.			3		10		e.	0	0	light	e.	overcast.
S. S. City of Rio de Janeiro, N. 27° 41′, W. 115° 49′*†	30.21	767.3	61	16.1	82	nnw.			2		9		nw.	0	0	light	nw.	gloomy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. City of Sydney, Sydney, N. S. W.†	29.96	761.0	59	15.0	49	w.			6		5		w.	0	0	sm'h		fair.
S. S. City of Tokio, N. 43° 30′, W. 167° 52′†	30.43	772.9	54	12.2	74	w.			2		8		nw.	0	0	small	nw.	fair.
S. S. Colon, N. 11° 48′, W. 79° 54′†	29.99	761.7	83	28.3		ene.			6		6		e.	0	0	hv'y	ese.	cloudy.
S. S. Colima, Panama, Panama†	29.95	760.7	77	25.0	91	nw.			2		9		ne.	0.05	1.3			cloudy.
S. S. Granada, N. 18° 34′ W. 103° 48′†	29.93	760.2	84	28.9	100	nw.			3		8		w.	0	0	light	w.	cloudy.
S. S. Zealandia, N. 34° 47′, W. 132° 32′	30.35	770.9	62	16.7	88	n.			4		10		ne.			high	n.	cloudy.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, N. 12° 10′, W. 60° 15′	29.98	761.5	82	27.8		ene.			3		10			0	0	mod.	ene.	overcast
S. S. Bermuda, N. 38° 17′, W. 72° 10′†	30.14	765.5	79	26.1		s.			2		2		calm	0	0	g'tl	s.	
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	29.89	759.2	64	17.8	78	sw.			5		5?		sw.	5 h'r	5 h'r			overcast.
S. S. Nederland, N. 40° 31′, W. 69° 38′†	30.05	763.3	65	18.3	94	ssw.			3		2		sw.	0	0	sm'h	e.	fair.
S. S. Rhynland, N. 42° 48′, W. 43° 56′	30.09	764.3	70	21.1	85	wsw			6		2		wsw.	0.1	3.	high	wsw.	clear.
S. S. Switzerland, N. 49° 35′, W. 8° 16′†	29.70	754.4				sw.			3		5		sw.	2 h'r	2 h'r	long	w.	fair.
S. S. Vaderland, Antwerp, Belgium	29.59	751.6	63	17.2	72	sw.			3		8		sw.	6 h'r	6 h'r			cloudy.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 48° 55′ W 19° 14′*	29.72	754.9	60.3	15.7	78	wnw.			4		8		nw.	0	0	mod.	nw.	fair.
S. S. W. A. Scholten, N. 45° 14′ W. 37° 46′	29.71	754.6	64.0	17.8	89	wsw.			6		7		w.	6 h'r	6 h'r	mod.	wsw.	fair
STATE LINE.																		
S. S. State of Florida, N. 53° 25′, W. 15° 19′	29.22	742.2	61	16.1		w.			6		10		w.	slr's	sh'rs	mod.	nw.	cloudy.
S. S. State of Georgia, N. 41° 04′ W. 57° 12′†	30.15	765.8	71	21.7		wsw.			3		hz.			0	0	sll't	wsw.	hazy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 57° 41′, E. 10° 13′†	29.91	759 7	63.5	17.5		e.			2		10		e.	2 h'r	2 h'r	sm'h	sse.	covered.
WHITE STAR LINE.																		
S. S. Baltic, N. 51° 15′ W. 11° 39′†	29.67	753.6	63	17.2	83	wnw.			3		8		w.	2 h'r	2 h'r	mod.	nw.	showery.
S. S. Celtic, N. 41° 30′, W. 53° 26′†	30.22	767.6	73	22.8	81	wnw.			2		5		wnw.	0	0	sm'h		fine.
S. S. Republic, Mersey River, Eng†	29.68	753.9	62	16.7	88	wnw.			5		6		wnw.	0	0			d. clouds.
WILSON LINE.																		
S. S. Romano, N. 45° 25′ W. 25° 49′	29.85	758.2	66	18.9		w.			2		4		n.	0	0	mod.	w.	clear.
WINSOR LINE.																		
S. S. Catherine Whiting, Shinnecock, N. Y†	30.12	765.0	70	21.1		sw.							s.	0	0	light	s.	
MISCELLANEOUS.																		
Schr. Addie Fuller, Bath, Me†	30.00	762.0	71	21.7	71	sw.				5 ck	0	w.		0	0			fair.
Schr. Ajax, Indianola, Texas†	30.08	764.0				calm			0		7		sw.	0	0			fair.
Schr. Annie Lewis, Aransas, Pass, Texas†	30.09	764.3	82	27.8		sse.			2		0			0	0	long	se.	clear.
S. S. Antonio Lopez, Cadiz, Spain	30.20	767.1	66.5	19.2	70	wnw.			4		1			0	0			clear.
Bk. Argonaut, N 59° 06′, W. 8° 43 *†	29.48	748.8	59.7	15.4		ssw.			3		3			1 h'r	1 h r	mod.	w.	clear.
Schr. Asa Eldridge, N. 23° 35′, W 82° 18′†	30.18	766.6				ese.			3		5		e.	0	0	reg.	ene.	fair.
Bk. Aureola, Bahia, Brazil*†	30.39	771.9	80	26.7		ese.			4		10		se.	14 h'r	14 h'r			cloudy.
Bk. Bergenseren. N. 47° 14′. W. 62° 13′†	29.74	755.5				sw.			4				wsw.	light	light	sm'h	sw.	
Bk. Cato, N. 52° 45′, W. 20° 20′*†	29.87	758.7				wnw.			5		5?		nw.	0	0	mod.	nw.	cloudy.?
Bk. Celestina, S. 33° 58′, W. 47° 11′*†	30.15	765.8				n.			3		0			0	0	mod.	ne.	clear.
Schr. C. R. Flint, Cedar Keys, Florida†	30.37	771.4	82	27.8		ssw.			1		8		sse.	0	0			cloudy.
S. Cornelius, N. 39° 52′. W 71° 25′*†	30.33	770.4	69	20.6		ssw.			5		8		wsw.	0	0	mod.	ssw.	fair.
Schr. Edith R. Seward, N. 17° 48′, W. 66° 20′*†	30.19	766.8	87	30.6		ene.			2		4		e.	1 h'r	1 h'r	r'gh	e.	fair.
S. E. J. Spicer, N. 40° 47′. W. 72° 08′†	30.10	764.5				sw.			5		7		wnw.	0	0	mod.	sw.	
S. Enoch Train, N. 38° 27′, W. 68° 50′*†	30.25	768.3				w.			2		4		w.	0	0	sm'h		fine.
Bk. Essex, S. 34° 24′ W. 13° 20′*†	30.27	768.8	69	20.6		nw.			4		1		nnw.	0	0	sm'h	w.	clear.
Bk. Freya, N. 40° 50′, W. 66° 05′			65	18.3		wsw.			4		5		wsw.	0	0	sm'h		fair.
S. Grecian, Hong Kong, China*†	29.85	758.2	84	28.9		ssw.			4		2			0	0			clear.
Bk. Hattie G. McFarland, N. 43° 00′, W. 69° 40′*†	30.05	763.3	66	18.9		sw.			3		5?		w.	0	0	short	sw.	cloudy?
S. Hedwig, N. 37° 58′. E 7° 40′	30.04	763.1	79.5	26.4	76	w.			6		0			0	0	long	w.	fine.
Bk. Horace Scudder, N. 34° 00′, W. 65° 36′†	30.29	769.4	77	25.0		wsw.			2		2		calm	5 h'r	5 h'r	long	w.	blue sky.
S. Ivy, N. 15° 40′, W 124° 48′†	30.21	767.3	74	23.3		ne.			4		8		se.	0	0	long	ssw.	fair.
Schr. Jennie N. Huddell, Chester, Pa†	30.23	767.8	76	24.4	95	sw.			1		2		w.	0	0			fair.
Bk. Johanne, N. 60° 40′, W. 7° 39′*†	29.42	747.3	58	14.4		sw.			4		5		ssw.	0	0	mod.	sw	misty.
Schr. John L. Thomas, Vivorilla Cay, Mosquito Coast*†	30.09	764.3				ene.			3		2		e.	0	0			clear.
Bg. John Wesley, N. 30° 42′ W. 68° 30′†	30.16	765.1				s.			2		3		s.	½ h'r	½ h'r	sm'h	se.	fair.
Bk. Joseph A. Ropes, N. 9° 08′, W. 28° 18′*†	30.15	765.8	82	27.8	83	n.			1		2		n.	1 h'r	1 h'r	mod.	se.	fair.
Bkt. Josephine, N. 39° 04′, W. 72° 56′†	30.11	764.8	73	22.8	75	ssw.			4		0			0	0	sm'h		clear.
Bkt. Kryolith, N. 56° 40′, W. 50° 40′*†	29.90	759.4				e.			4		fg.					con.		hazy.
S. S. Lamperts, N. 31° 45′, E. 31° 19′*	29.68	753.9	77.6	25.3	82	nw.			2		0							blue sky
S. S. Laurel, Key West, Fla†	30.18	766.6	84	28.9		se.			2		2		se.	0	0			clear.
Bk. Liberia, N. 10° 35′, W. 19° 38′*	30.07	763.8	78	25.6	90	sw.			2		4		nw.	0	0			
S. S. Malabar, N. 47° 33′, W. 163° 06′*†	30.20	767.1				wsw.							w.	0	0			
S. Orealla, N. 38° 58′, W. 70° 48′*	30.04	763.0	71	21.7		ssw.			2		2		s.	0	0	sm'h	s.	clear.
S. Paramita, S. 21° 05′ W. 97° 18′†	30.09	764.3	72	22.2		ne.			5		3		ne.	2 h'r	2 h'r	short	se.	clear.
S. S. Ponca, N. 11° 06′ W 55° 51′†	30.05	763.3	85	29.4		ene.			2		1		e.	0	0	light	e.	clear.
S. S. Sunbeam, Odessa, Russia	29.86	758.4	84	28.9	53	sse.			2		0							blue sky.
S. Sovereign of the Sea, N. 9° 09′ W. 28° 54′*†	30.04	763.0	85	29.4	87	ne.			1		5?		ne.	mist	mist	mod.	s.	clear.?
Bg. Teneriffe, Cardenas, Cuba, W. I.	30.07	763.8				e.			1									
Bk. Truro, N. 44° 46′, W. 29° 00′*†	29.98	761.5				wsw.			5		7		wsw.	8 h'r	8 h'r	mod	wsw.	hazy.
U. S. F. C. S. S. Fish Hawk, N. 38° 55′, W. 75° 15′†	30.38	771.6	88	31.1	80	sse.			2		3		calm	0	0	mod.	se.	clear.
S. S. Victoria J. Peed, Savanilla Bay, U. S. C.						ne.			3		4							
Schr. Viola Reppard, Baltimore, Md†	29.98	761.5	80	26.7		sw.			1		4		sw.	0	0			clear.
Bk. Wm. Wilcox, S. 27° 52′, W. 45° 10′*†	30.47	773.9	72	22.2		nne.			4		5		ne.	c	0	mod.	e.	fair.
S. Wm. Woodbury, N. 49° 30′, W. 8° 19′*	29.69	754.1	62	16.7	88	wnw.			6		6?		wnw.	sq'ls	sq'ls	long	wnw.	clear.?

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 10, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.12	765.1	77.0	25.0	67	sw.			2		1			0	0	very fair	Bouvier.
Algiers			30.08	764.1	77.7	25.4	53	n.			2		0			0	0	clear	Nicolas.
La Calle			30.02	762.4	82.4	28.0	61	n.			4		2			0	0	fair	Fonfréde.
Tunis			29.97	761.1															Jacques.
Saida			30.14	765.5	80.2	26.8	43	ene.			2		3			0	0	pretty fair	Percs.
Tebessa			30.05	763.3	86.4	30.2	28	nnw.			2		0			0	0	clear	Derché.
Geriville					97.2	36.2	8	nw.			1		0			0	0	clear	Lonchamp.
Laghouat			30.08	764.1	94.3	34.6	34	w.			1		0			0	0	clear	Abraham.
Biskra			30.06	763.6	94.6	34.8	16	nw.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.84	757.9	29.93	760.2	50.1	10.1	73	n.	10	4.5			10			0	0	squally	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.24	742.7	29.76	755.9	77.0	25.0	48	se.			4		8			0.063	1.6	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.05	737.8	29.79	756.6	68.0	20.0	54	wsw.	8.7	3.9			9			0	0		Dr. Wierzbiski.
Eperies	28.83	732.2	29.66	753.4	75.9	24.4	56	n.			4	0	0			0	0		Julius Mikolik.
Gratz	28.63	727.2	29.84	757.9	66.7	19.3	72	nw.			4		10			0	0		Andreas Rospini.
Hermannstadt	28.29	718.5	29.58	751.3	96.4	35.8	32	se.			4		1			0.984	25.0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.58	725.8	29.89	759.2	60.3	15.7	73	w.			1		10			0	0	gloomy	The Staff.
Lemberg	28.90	734.1	29.84	757.9	76.6	24.8	50	nw.			3		1			0.709	18.0		Dr. T. Stanecki.
Pola	29.72	754.8	29.82	757.5	77.2	25.1	57	ene.			2		10			0	0		I. R. Hydrographic Office.
Szathmar	29.21	741.8	29.64	752.9	88.5	31.4	31	w.			1		0			0.602	15.3		Joseph Midlinszky, S. J.
Szegedin	29.47	748.5	29.73	755.2	80.2	26.8	43	nw.			1		5			0	0		Karl Stancel.
Trieste	29.73	755.2	29.84	757.8	80.6	27.0	44	sw.			1		10			0.246	6.3		Royal Academy.
Vienna	29.16	740.6	29.85	758.2	67.6	19.8	54	w.			2		10			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.48	748 8	29.57	751.1	59.7	15.4	73	sse.	11	4.9			7			0.120	3.0	gloomy	W. Boswell
Armagh, Observatory	29.36	745.7	29.60	751.8	62.5	16.9	68	ssw.	9	4.0			3					d. clouds	S. Oall.
Bidston, Liverpool Obs'y			29.65	753.1	60.2	15.7	76	sw.	13	5.8			6					d. clouds	John Hartnup.
Bolton, Sharples	29.12	739.6	29.64	752.8	54.8	12.7	89	sw.	6	2.7			9					raining	Thomas Mackereth, ton.
Bradford, Yorkshire	29.25	742.9	29.65	753.1	60.6	15.9	67	sw.			2		5			0	0	d. clouds	McLandsborough & Pres.
Bridgetown, Barbadoes	30.04	763.0	30.07	763.8	81.0	27.2	84	ne.			2		6					gloomy	Corpl. J. Surgenor, A. H.C.
Cardington			29.72	754.9	69.4	20.8	65	w.			1.0		6					d. clouds	John McLaren.
Chatham, School M. E.	29.63	752.6	29.76	755.9	64.8	18.2	62	sw.			2		7			blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.55	750.6	29.77	756.1	60.4	15.8	70	sw.			3		7					d. clouds	The Staff.
Fort Napier, Natal	27.98	710.7	30.20	767.1	62.3	16.8	33	n.			2		0					blue sky	Pvt. Lane, A.H.C
Free Town, Sierra Leone	29.62	752.3	29.85	758.2	88.0	31.1	69	w.			1		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.08	764.0	30.13	765.3	79.6	26.4	73	w.			2		6					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	29.38	746.2	29.59	751.6	62.7	17.1	57	ssw.			4		5					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.58	751.3	29.74	755.4	66.8	19.3	58	sw.			3		5					showery	The Staff.
Guernsey	29.55	750.6	29.84	757.9	57.0	13.9	87	sw.			2		10					raining	A. Collenette, F. M. S.
Kew, Observatory	29.72	754.9	29.76	755.9	62.9	17.2	61	sw.	23	10.3			8					showery	The Staff.
Leicester, Museum	29.43	747.5	29.68	753.9	64.4	18.0	54	sw.			2		5			blank	blank	d. clouds	J. C. Smith.
Malta, Mediterranean	29.87	758.7	29.95	760.7	83.4	28.6	64	nw.			3		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.16	766.1	30.20	767.1	86.0	30.0	68	se.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.18	741.2	29.69	754.1	58.9	14.9	90	s.			4		5			blank	blank	d clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.49	749.0	29.72	754.9	58.8	14.9	81	s.			2		8					threatening	The Staff.
Plymouth	29.69	754.1	29.76	755.9	65.0	18.3	68	sw.			3		7					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.56	750.8	59.1	15.1	73						0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.69	754.1	29.75	755.6	89.2	31.8	41	nne.			1		0					blue sky	W. H. Lyne.
Sheffield	29.33	745.0	29.61	752.1	68.8	20.4		sw.			2		1			0.03	0.8	blue sky	W. F. Cooper.
Silloth Rectory	29.58	751.3	29.61	752.1	63.4	17.4	72	wsw.			3		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.66	753.4	62.2	16.8	61	w.	14	6.3			7					d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.56	750.8	29.78	756.4	62.0	16.7	71	sw.			1		10					showery	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.76	755.9	29.77	756.1	67	19.4	64	w.			4		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.65	753.1	29.67	753.6	59.7	15.4	81	wsw.	19	8.5			7			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.85	758.2	29.89	759.2	61	16.1	79	nw.	9	4.0		2 cs	2 s	nw.	nw.	0.130	3.3	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.86	758.4	29.92	760.0	62	16.7	78	nw.	16	7.2		2 k	2 ks	nw.	nw.	0.00	1.5	fair	G. A. Blair.
Father Point, Quebec*	29.90	759.4	29.92	760.0	55	12.8	90	ne.	4	1.8		10 c	0	calm		0.02	0.5	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.56	725.4	29.35	745.5	60	15.6	70	w.	19	8.5			8 ks		w.	0.310	7.9	cloudy	James Stewart.
Halifax, N. S*	29.80	756 9	29.93	760.2	64	17.8	78	nw.	3	1.3		5 ck	0			0.938	23.8	fair	A. Allison.
Kingston, Ontario*	29.52	749.8	29.84	757.9	69	20.6	90	s.	14	6.3		5 ck	0			0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.67	753.6	29.87	758.7	70	21.1	78	s.	6	2.7			10 s		w.	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.05	737.9	29.72	754.9	68	20.0	100	sw.	15	6.7			10 n		sw.	0.38	9.7	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.18	741.2	29.84	757.9	69	20.6	95	sw.	11	4.9		4 ck	0	sw.		0.03	0.8	fair	H. Morgan.
Port Stanley, Ontario	29.23	742.4	29.84	757.9	64	17.8	?	s.	5	2.2		8 ks	0	sw.		0.11	2.8	cloudy	M. Payne.
Quebec, Quebec*	29 60	751.8	29.92	760.0	62	16.7	84	calm			0	5 k	2 s	w.	w.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.30	744.2	29.74	755.4	67	19.4	90	se.	2	0.9			10 ks		s.	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.03	737.1	29.71	754.6	73	22.8	90	sw.	14	6.3			10 s			inap.	inap.	light rain	
St. Andrews, N. B	29.88	758.9	29.93	760.2	63	17.2	74	nw.	4	1.8		0	0			0	0	clear	
Sydney, C. B*	29.75	755.6	29.81	757.2	63	17.2	70	nw.	10	4.5		1 c	1 k	nw.		0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.47	748.5	29.84	757.9	69	20.6	93	s.	5	2.2		5 ck	5 ks	w.	w.	inap.	inap.	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.88	758.9	29.94	760.5	57	13.9	93	calm	0	0		3 ck	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
Mount Forest	28.44	722.4	29.84	757.9	70.0	21.1	90	w.			3	10 n; c	10n; c	w.		0.187	4.7	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.93?	760.2?	30.18?	766.6?	63?	17.2?	76	sw.	4	1.8		0	0			0.03	0.8	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.30	769.6	30.33	770.4	64.0	17.8	67	e.	11.4	5.1		1 c	0			0.210	5.3	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.20	767.1	30.24	768.1	61.8	16.6	54	nw.	11	4.9		0	0			0.170	4.3		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.94	760.5	29.97	761.1	69.3	20.7	90	ese.	5.6	2.5			8			0	0	cloudy	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.52	749.7	29.56	750.9	66.4	19.1	64	nw.	16.8	7.5			8						Oversergent Fischer.
Fanöe	29.64	752.9	29.66	753.4	63.7	17.6	72	w.			4		6						Overloerer Lauridsen
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.59	751.5	29.63	752.6	48.2	9.0	77	e.			7		8						A. O. Thorlacius.
Thorshavn	29.56	750.7	29.59	751.6	52.2	11.2	89	e.	11	5			10						Overloerer Bergh.
Vestervig	29.54	750.4	29.63	752.7	63.0	17.2	79	wsw.			4		4						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.41	747.0	30.04	763 0	66.9	19.4	77	calm			0		n		sw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.36	745.8	29.91	759.8	64.4	18	65	sw.			3		kn	ne.	ne.	0.055	1.4		M. Nicot, Director.
Arras, Engineer School	29.57	751.0	29.82	757.4	60.4	15.8	76	?			4	ck	o	e.		0	0		M. Fénéon, Command't.
Avignon, Normal School	29.92	759.9	30.00	761.9	77.0	25	47	nw.			1		5		nw.	0	c	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.38	746.3	29.93	760.1	63.5	17.5	58	sw.			2		10		w.	0.138	3.5	covered	M. Saillard, Director.
Beauvais, Normal School	29.61	752.0	29.86	758.5	66.4	19.1	49	sw.			2		8		sw.	0.098	2.5	very cloudy.	M. Frère Eugène Marié.
Besançon, Normal School	29.04	737.7	29.91	759.8	67.3	19.6	60	se.			2	o	5 kn		se	0.43	11.	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.73	755.1	29.98	761.6	66.6	19.2	58	s.			1		1c			0.075	1.9	covered	M. Rayet, Director.
Bourges, Normal School	29.43	747.4	29.97	761.1	65.3	18.5	67	w.			1		k		w.	0.071	1.8		M. Malet, Director.
Brest, Naval Observatory	29.66	753.4	29.91	759.6	63.7	17.6	84	sw.			2		5		sw.	0.039	1.0	hailing	M. de Kermarec, Dir.
Caen, Normal School	29.87	758.6	29.94	760.5	61.0	16.1	66	sw.			2		8		sw.	0.087	2.2	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.55	750.6	29.86	758.5	64.6	18.1	59	calm			0		5	w.	w.	0.039	1.0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.33	744.9	29.82	757.5	67.3	19.6	51	w.			3					0.35	9.		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.64	727.4	29.96	761.0	64.4	18.0	50	sw.			2		8			0.020	0.5	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.14	740.2	29.96	761.0	68.0	20	58	sw.			1		6		e.	0.657	16.7		M. de Villemontée, Dir.
Commercy, Normal School	29.06	738.0	29.90	759.4	65.3	18.5	56	wsw.			1		5 kn	wsw.	wsw.	0.437	11.1	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.47	697.6	29.94	760.5	64.0	17.8	47	n.			1	1	8 k		nw.	0	0		M. Jeangirard, Director.
Grésque, du Rhone	28.90	734.1	30.00	761.9	72.0	22.2	37	nw.			3		2		nw.	0.138	3.5		M. Kina, Director.
Grenoble, Normal School	29.22	742.1	29.97	761.2	65.5	18.6	66	wnw.			1	ck	o			0	0		M. Ablard, Director.
Guéret, Normal School	28.45	722.7	30.03	762.7	55.4	13	88	sw.			3		10 n		sw.	0.130	3.3	raining	M. Rivoire, Director.
Lamballe, Normal School	29.60	751.9	29.87	758.7	63.7	17.6	67	s.			2		5		s.	0.08	2.	cloudy	M. Olitrault, Director.
Lescar, Normal School	29.39	746.4	29.95	760.6	66.2	19.0	63	sw.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.83	757.7	29.93	760.3	64.4	18.0	65	wsw.			1		5		sw.	0.138	3.5	½ covered	Lt. T. Curré, Director.
Lyon, St. Genis-Laval	28.93	734.9	29.97	761.1	68.5	20.3	48	sw.			1	o	5 k		sw.	0.020	0.5	½ covered	M. André, Director.
Mans, Normal School	29.59	751.6	29.89	759.3	64.0	17.8	75	w.			3		5		sw.	0.020	0.5	cloudy	M. Piboen, Director.
Marseille, Observatory	29.74	755.5	30.01	762.3	70.7	21.5	49	wsw.			1		2		wnw.	0	0		M. Stephan, Director.
Montlouis	24.88	631.9	29.72	754.9	58.1	14.5	49	sw.	16.8	7.5			3	nw.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.83	757.6	29.95	760.8	75.9	24.4	54	w.			3		2	sw.		0	0	slightly cl'dy.	M. Galzin, Director.
Nancy, Normal School	29.14	740.2	29.91	759.7	64.0	17.8	52	s.			2	ck	o	s.		0.260	6.6		M. Hasse, Director
Nantes, Observatory	29.81	757.1	29.97	761.2	68.5	20.3	50	w.			1–3	2 c	7 k; kn		wsw.	0.063	1.6		M. Larocque, Director.
Perpignan, Observatory	29.91	759.8	30.02	762.5	72.7	22.6	41	e.	9.4	4.2			1		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.28	540.4			36.3	2.4		sw.			1		10		sw.	0.047	1.2	rain & fog	Gen'l de Nansouty, Dir.
Privas, Normal School	28.97	735 9	30.00	762.1	71.2	21.8	58	s.			1		10			0.969	24.6	covered	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.12	638.1			42.4	5.8	100	wsw.			4		10			0.185	4.7	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.92	760.0	29.95	760.8	64.9	18.3	92	wsw.			2		10			0.51	13.	raining.	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.73	755.2	29.95	760.6	64.4	18	63	sw.			1		5		sw.	0.228	5.8	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.93	709.5	30.05	763.3	61.0	16.1	67	w.			1		5			0	0	fair	M. Seger, Director.
Rouen, Normal School	29.80	757.0	29.85	758.2	64.0	17.8	78	wsw.			2		5	sw.		0.130	3.3	cloudy	M. Brotier.
Saint Maur, Observatory	29.73	755.2	29.90	759.4	62.8	17.1	60	w.			1		10		wsw.	0.004	0.1		M. Renou, Director.
Toulouse, Observatory	29.34	745.2	30.06	763.6	72.0	22.2	42	e.			1		2		w.	0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.74	755.4	29.91	759.8	67.3	19.6	67	sw.			1	c	k	w.	sw.	0.004	0.1		M. de Tastes.
Versailles, Observatory	29.39	746.6	29.89	759.1	63.3	17.4	72	sw.			1					0.126	3.2		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.61	752.1	29.90	759.5	58.5	14.7	84	sw.			1		10		w.	0.008	0.2	raining.	M. Marié Davy, Director
GERMAN.																			
Bamberg	29.04	737.5	29.88	759.0	64.8	18.2	55	nw.			2	o	8 k		w.	0.220	5.6	heavy rain	Prof. Dr. Hoh.
Berlin	29.68	753.8	29.85	758.2	71.6	22.0	44	w.			5		8			0.858	21.8		Prof. Dr. Arndt.
Breslau	29.29	744.0	29.82	757.4	68.2	20.1	48	w.			4		5			0	0		Royal University Obs'y.
Carlsruhe	29.46	748 3	29.89	759.3	60.6	15.9	81	sw.			3		1	sw.		0.244	6.2	raining	Albert Senz.
Cassel	29.06	738.2	29.78	756.3	68.7	20.4	45	sw.			4		10	sw.		0.114	2.9		Dr. H. Möhl.
Frankfort-on-the-Main	29.48	748.9	29.84	758.0	63.3	17.4	67	e.			1		5			0.295	7.5		Physical Society.
Friedrichshafen	28.54	724.8	29.95	760.6	61.9	16.6	74	sw.			3		10	w.		0.043	1.1		Wilhelm, Chief Tel.
Hamburg	29.64	752.9	29.74	755.3	62.6	17.0	64	w.			4		10	sw.		0.047	1.2	showery	E. Preller.
Kiel	29.65	753 2	29.67	753.6	64.6	18.1	63	w.			4		7			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.41	747.0	29.82	757.4	67.6	19.8	56	sw.			4		7	w.		0.646	16.4	sprinkling	H. Leppig, Asst.
Magdeburg	29.58	751.3	29.76	755.9	69.6	20.9	51	wsw.			3		3 k		sw.	0.331	8.4		Dr. Assmann.
Memel	29.39	746.4	29.43	747.5	60.4	15.8	91	sw.			7		10						Issermann.
Munich	28.11	714.1	29.97	761.3	61.3	16.3	64	nw.			1		7	w.		0.626	15.9		Dr. C. Lang.
Neufahrwasser	29.58	751.2	29.59	751.6	66.9	19.4	73	w.			5		6			2.780	70.6		A. Lothes.
Neustadt, Palatinate	29.33	744.9	29.85	758.2	63.7	17.6	76	s.			4		8	w.		0.492	12.5		Dicknether.
Stuttgart	28.98	736.0	29.86	758.4	59.0	15.0	70	w.			1		10			0.209	5.3		Prof. Dr. Schoder.
Wustrow	29.68	753.8	29.70	754.4	64.4	18.0	75	wsw.			4	o	8 ks			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.39	746.6			97.9	36.6		sw.			1.5		c			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.47	748.5	29.52	749.8	86.3	30.2	79	wsw.	31.0	13.8			9			0	0	gloomy	
Deesa	29.01	736.9	29.48	748.8	78.2	25.7	94	wsw.	16.4	7.3			10	sw.		2.97	75.4	overcast	
Bombay	29.66	753 3	29.70	754.3	80.9	27.2	87	wsw.	24.0	10.7			10	sw.	wsw.	0.34	8.6	overcast	
Poona, Yarrowda	27.85	707.4	29.71	754.6	76.0	24.4	79	w.	18.0	8.0			10		w.	0.14	3.6	drizzling	
Trichinopoly	29.52	749 8	29.80	756.8	86.5	30.3	52	nw.	4.0	1.8			10			0	0	overcast	
Bellary	28.28	718.2	29.74	755.4	81.0	27.2	62	w.	12.2	5.4			10	sw.		0	0	gloomy	
Belgaum	27.24	691.9	29.81	757.2	68.1	20.1	96	wsw.	9.0	4.0			10		sw.	0.73	18.5	showery	
Lahore	28.75	730.3	29.49	749.1	78.7	25.9	87	nw.	4.1	1.8			10			1.75	44.4	raining	
Roorkee	28.60	726.3	29.48	748.7	83.6	28.7	78	se.	4.2	1.9			6			2.42	61.5		
Agra	28.91	734.2	29.47	748.4	81.0	27.2	91	e.	2.4	1.1			10		e.	5.60	142.2	overcast	
Nagpur	28.52	724.5	29.56	750.9	75.7	24.3	90	w.	7.5	3.4			10		w.	5.49	139.4	drizzling	
Jubbulpore	28.17	715.4	29.51	749.6	77.8	25.4	90	w.	6.5	2.9			10			2.80	71.1	overcast	
Lucknow	29.19	741.4	29.56	750.9	78.2	25.7	93	ene.	0.8	0.4			10			1.98	50.3	overcast	
Allahabad	29.14	740.1	29.45	748.1	76.7	24.8	97	ne.	2.4	1.1			10			6.76	171.7	overcast	
Patna	29.32	744.8	29.50	749.4	83.2	28.4	81	e.	10.0	4.5			8	e.	e.	0.17	4.3	d. clouds	
Hazaribagh	27.48	697.9	29.46	748.4	76.6	24.8	91	se.	7.9	3.5			10		se.	1.10	27.9	thund'r st'm	
Cuttack	29.44	747.6	29.52	749.7	82.1	27.8	77	sw.	2.4	1.1			8			0.51	13.0	d. clouds	
Calcutta, Alipore	29.48	748.7	29.50	749.2	79.1	26.2	94	se.	10.0	4.5			10		w.	0.95	24.1	showery	
Dhubri	29.47	748.6	29.59	751.6	81.5	27.5	84	e.	18.7	8.4			7	ese.		0.39	9.9	d. clouds	
Chittagong	29.51	749.6	29.60	751.8	83.2	28.4	80	se.	7.6	3.4			7			0	0	d. clouds	
Sibsagar	29.28	743.8	29.62	752.2	84.8	29.3	81	ne.	1.1	0.5			6	sw.	w.	0.13	3.3	d. clouds	
Jeypore	28.06	712 8	29.50	749.2	76.7	24.8	90	e.	4.5	2.0			10	e.	e.	0.64	16.3	overcast	
Zanzibar, Africa	30.06	763.5			82.7	28.2	57	sse.	7.9	3.5			7		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.43	747.4	29.82	757.5	74.5	23.6	54	sw.	4.3	1.9			10			0	0		Prof. Giovanni Clodig.
Milan	29.29	744.0	29.79	756.6	78.1	25.6	21	sw.	7.4	3.3			2			0.020	0.5		Prof. Schiaparelli.
Padua	29.67	753.6	29.78	756.3	77.9	25.5	37	sw.					4	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.91	734.3	29.78	756.4	77.0	25.0	29	sse.	3.1	1.4			2			0	0		Prof. P. F. Denza.
Genoa	29.66	753.4	29.85	758.1	73.0	22.8	65	se.	13.0	5.8			2	sw.		0	0		Prof. G. M. Garibaldi.
Mondovi	27.95	709 8	29.79	756.7	72.5	22.5	25	nnw.			4		1	w.		0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.78	756.5	29.83	757.7	77.0	25.0	31	w.	17.4	7.8			9			0	0		Prof. Luigi Guidi.
Florence	29.65	753.2	29.90	759.4	75.9	24.4	53	sw.			6		10	sw.		0.024	0.6		Prof. Costantino Pitter
Leghorn	29.77	756.2	29.85	758.3	72.1	22.3	57	w.	21.7	9.7			10			0	0		Prof. P. Monte.
Rome	29.75	755.6	29.92	759.9	82.0	27.8	35	ssw.	4.3	1.9			5			0	0		Prof. P. S. Ferrari.
Lecce	29.60	751.8	29.84	757.9	86.4	30.2	36	ne.	8.1	3.6			0			0	0		Prof. C. de Giorgi.
Cosenza	29.09	738.8	29.93	760.3	86.4	30.2	73	se.	3.1	1.4			3	s.		0	0		Prof. D. Conti.
Cagliari	29.81	757.2	30.00	762.0	79.7	26.5	34	wnw.			4		5	w.		0	0		Prof. A. Pacinotti.
Palermo	29.74	755.4	29.98	761.4	77.4	25.2	55	nw.	25.5	11.4			1			0	0		Prof. G. Ciacciatore.
Syracuse	29.85	758.2	29.89	759.3	79.5	26.4	68	ene.	12.5	5.6			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.45	747.9	29.96	760.9	74.8	23.8	57	w.	10.5	4.7			8	nw.		0	0		Prof. T. Brioschi.
Stelvio	22.12	561.8			42.4	5.8	52	e.			4		6			0.520	13.2	misty	Prof. P. F. Denza.
Valdobbia	22.16	562.9			44.8	7.1	60	e.			2		4			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.95	760.7	29.96	761.0	59.5	15.3	95	ese.	12.0	5.4			10			0.425	10.8	covered	
Hiroshima, I. M. Obs'y					71.6	22.0	93	sw.	2.5	1.1			10 n			1.712	43.5	light rain	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.75	755.6	29.92	759.9	74.1	23.4	92	sw.	0.9	0.4			10 s			0.573	14.6	cloudy	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.71	754.5	29.90	759.5	73.8	23.2	96	sw.	0.6	0.3			10 s			0.950	24.1	overcast	S. Takehayashi.
Nemuro	29.90	759.4	29.96	761.0	46.5	8.1	93	nne.	12.0	5.4		10	0			0.480	12.2	foggy	
Niigata	29.88	758.9	29.92	759.9	68.6	20.3	92	se.	1.8	0.8			10ck;s			0.550	14.0	overcast	M. Morita.
Nobiru	29.93	760.1	29.94	760.5	63.3	17.4	95	e.	7.0	3.1			10 n			0.490	12.4	rainy	H. Midzushina.
Osaka	29.91	759.7	29.93	760.2	73.0	22.8	98	ne.	1.6	0.7			10 n			1.145	29.1	light rain	
Supporo					62.0	16.7	93	se.	3.0	1.3			10			0.520	13.2	rainy	
Tokei Obs'y, Yeddo	29.84	757.9	29.91	759.7	74.4	23.6	93	ese.	6.8	3.0			10 s			0.037	0.9	covered	The Staff.
Wakayama	29.84	757.9	29.89	759.2	77.6	25.3	84	sse.	8.8	3.9			10		s.	0.300	7.6	raining	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.98	761.5	30.18	766.6	73	22.8	84	ene.	10.5	4.7			8 ks;n		e.	0.29	7.4	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.76	603.5	29.98	761.5	60.8	16.0	80	ne.				6 ck	3 kn		nw.	0	0	cloudy	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.03	762.7	59.0	15.0	90	nw.			1	8 c	0	sw.		0.005	0.1	cloudy	Prof. M. Leal.
Mazatlan	29.75	755.6	30.00	762.1	77.5	25.3	88	e.	1.6	0.8		4 cs	1 k			inap.	inap.	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.19	589.0	30.25	768.3	53.1	11.7	86	calm	0	0		0	2 ks			0.047	1.2	fine	The Staff.
Morelia	24.26	616.1	30.33	770.3	59.9	15.5	60	se.			2	2	1	s.	se.	0.288	7.3	½ cloudy	M. Tena, M. D.
Orizaba	26.06?	664.4?	30.12	765.1	63.1	17.3	82	se.	1.8	0.8		5	3	se.	s.	0	0	cloudy	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.02	610.1	30.01	762.2	61.9	16.6	85	calm			0	0	0			0	0	fine	M. V. de Leon, M. E
Puebla, Catholic Institute	23.48	596.4	30.28	769.1	52.2	11.2	89	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.28?	618.8?	30.24	768.0	62.8	17.1	71	s.				4	3	w.	e.	0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.67	575.1	30.25	768.2	57.0	13.9	92	s.	4.2	1.9		4 s	0			0	0	½ cloudy	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	29.81	757.2	29.81	757.2	61.7	16.5		wsw.			4					0.051	1.3		
Groningen	29.69	754.2	29.75	755.6	62.6	17.0		w.			3					0.102	2.6		
Helder	29.74	755.5	29.74	755.5	62.2	16.8		sw.			4					0	0		
Hellevoetsluis	29.78	756.4	29.78	756.4	60.4	15.8	81	sw.			2					0	0		
Utrecht	29.75	755.6	29.80	756.8	64.0	17.8	75	sw.			3		8			0.028	0.7	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.54	750.2	29.60	751.8	61.5	16.4	68	nnw.	4	2			4			0.244	6.2		
Brono	29.62	752.4	29.66	753.4	62.2	16.8	60	e.	18	8			9					raining	
Christiania	29.40	746.7	29.54	750.3	64.9	18.3	67	nne.	11	5			10			0	0		
Gjæsvær	29.87	758.6	29.89	759.2	64.4	18.0		calm			0		0						
Lodingen	29.73	755.2	29.78	756.4	68.0	20.0	46	s.			2		1			0	0		
PORTUGUESE.																			
Angra, Azores					69.4	20.8	85	w.	10.5	4.7			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.19	741.3	30.16	766.1	72.5	22.5	57	wsw.	1.8	0.8			9			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.22	767.6	30.31	769.8	70.2	21.2	65	sw	6.3	2.8			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.88	758.9	30.23	767.9	66.9	19.4	89	sw.	10.5	4.7			9			0.075	1.9		The Staff.
Ponta Delgada, Azores	30.23	767.8	30.30	769.6	74.5	23.6	78	sw.	15.4	6.9			4			0	0		
Saint Paul de Loando	29.86	758.5	30.06	763.6	76.1	24.5	57	ssw.	0.7	0.3			1	sse.		0	0		
Serra da Estrella	25.42	645.6	30.17	766.4	48.0	8.9	100	w.	35.3	15.8			9			1.350	34.3	foggy	
RUSSIAN.																			
Akmolinski	28.26	717.7	29.28	743.6	68.5	20.3	47	sw.	22	10		0	5 k			0.154	3.9		Major K. Lasarew.
Archangel	29.88	758.9	29.90	759.4	61.0	16.1	70	s.	2	1			9 k			0	0		Capt. Sseliwerstow.
Astrakhun	29.88	758.9	29.80	756.8	83.3	28.5	52	e.	7	3		0	1 s			0	0		Capt. Wisganow.
Barnaul	28.93	734.9	29.39	746.6	81.5	27.5	53	se.	4	2			9			0.449	11.4	light clouds	Meteorological Obs'y.
Dorpat	29.23	742.4	29.46	748.2	72.7	22.6	72	e.	18	8			10 kn			0.228	5.8		Observatory.
Ekaterinburg	28.55	725.1	29.48	748.8	56.3	13.5	82	n.	11	5			10			0.024	0.6		Meteorological Obs'y.
Irkutsk	28.05	712.4	29.59	751.5	76.8	24.9	67	se.	4	2		4ck;cs	0			0	0		
Kasan	29.46	748.2	29.71	754.7	70.9	21.6	60	wnw.	9	4		9 ck	0			0	0		Observatory.
Kertch	29.77	756.1	29.79	756.6	84.7	29.3	59	se.	9	4		0	0			0	0		Lagorio & Sastyrez.
Kieff	28.98	736.2	29.56	750.8	93.6	34.2	39	sse.	13	6		c;ck	1 k			0	0		Observatory.
Lugan	29.52	749.8	29.71	754.6	92.1	33.4	43	sw.	9	4			3			0	0		Meteorological Obs'y
Moscow	29.30	744.2	29.75	755.7	69.3	20.7	61	s.	7.8	3.5			8 ks						Meteorological Obs'y.
Nikolaiev	29.71	754.7	29.78	756.5	91.0	32.8	32	ssw.	22	10		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.71	754.5	29.85	758.1	81.5	27.5	65	calm	0	0		0	8 n			0.248	6.3	raining	Physical Observatory
St. Petersburg	29.68	753.8	29.69	754.2	69.4	20.8	51	ese.	16	7			9 k			0.571	14.5		Central Physical Obs'y
Semipalatinsk	28.67	728.3	29.26	743.3	91.9	33.3	29	n.	4	2			10			0	0	light clouds.	Major Lasarew.
Tashkend, Laboratory	28.15	715.1	29.61	752.0	88.9	31.6	34	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.48	723.5	29.81	757.2	89.4	31.9	31	se.	4	2		0	5 k			0	0		Physical Observatory
Vladivostock	29.96	760.9			58.3	14.6	94	calm	0	0			10 k						
Warsaw	29.29	744.0	29.70	754.3	68.5	20.3	61	wnw.	18	8			10 ks						Astronomical Obs'y
Wilna	29.15	740.5	29.55	750.6	72.7	22.6	66	s.	4	2			9			0	0	heavy clouds	Berg, Assistant.
Yeniseisk	29.36	745.7	29.63	752.6	74.8	23.8	90	sw.	2	1			3			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.91	759.6	30.01	762.2	79.3	26.3	39	sw.	7.4	3.3			1 k						Antonio Rave, Director.
Bilbao, Met. Obs'y	29.97	761.3	30.03	762.8	76.3	24.6	53	w.	2.9	1.3		2	1	se.		0.110	2.8	almost clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.17	690.2	30.12	765.1	59.2	15.1	72	sw.	11.9	5.3			10			0.075	1.9	covered	Domingo Martin.
Madrid, Royal Obs'y	27.93	709.5	30.10	764.6	71.6	22.0	54	sw.	16.1	7.2		0	4			0	0	cloudy	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director.
Santiago, Met. Obs'y	29.16	740.6	30.05	763.2	60.6	15.9	92	calm	0	0			10			0.118	3.0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.																			Benito Vines, S. J.
Manilla, Philippine Islands	29.77	756.2	29.83	757.7	80.9	27.2	81	se.	6.6	3.0		4 ck	5 kn		se.	0.276	7.0	threatening.	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.12	764.9	30.21	767.4	73.4	23.0	58	wnw.	11.5	5.1		0	0			0	0		Capt. O. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.06	763.6	30.15	765.9	79.2	26.2	86	se.	3.6	1.6		5 k	5 kn	se.	se.	0.008	0.2	overcast	Manuel Maese.
Tuguegarao, Philippine Id's	29.71	754.6	29.84	757.9	79.1	26.2	88	s.	0	0			9 kn		se.	0.13	3.3	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.82	757.3	29.85	758.3	69.4	20.8	37	s.			2		0			0	0		
Umea	29.71	754.7	29.76	756.0	69.8	21.0	47	e.			6		8			0	0		
Hernosand	29.65	753.2	29.71	754.5	62.6	17.0	76	ne.			6		8			0.012	0.3		
Stockholm	29.17	740.8	29.34	745.3	56.8	13.8	99	e.			6		10			0.094	2.4	raining	
Wisby	28.99?	736.3?	29.05?	737.8?	59.0	15.0	100	n.			4		10			0.228	5.8	raining	

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
SWEDISH—Continued.																			
Sub-series.																			
Upsala	29.32	744.8	29.41	747.0	57.6	14.2	98	ene.	12.3	5.5			10		ene.	1.543	39.2	raining	S. G. Fineman.
SWISS.																			
Geneva	28.59	726.1	29.98	761.6	64.0	17.8	62	w.			3					0.154	3.9	covered	The Observatory
SCOTTISH.																			
Monach Lt			29.50	749.3	59	15.0	94	ssw.			3	3	0	sw.		0.1	3.	clear	J. Youngclause.
North Unst			29.56	750.8				se.			3	3	7	e.					
TURKISH.																			
Constantinople			29.79	756.6	80.8	27.1	57	nne.	9	4.0			0			0	0		The Observatory.
Valona			29.98	761.5	88.3	31.3		sw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.71	754.5	86.7	30.4	62	sw.			3	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.88	758.9	29.96	761.0	76.5	24.7	72	s.	7	3.1		4 c	0			0	0	fair	J. O. Barnes.
Alpena, Michigan	29.14	740.1	29.78	756.4	62	16.7	87	w.	6	2.7		3 c	5 s	sw.	w.	0.64	16.3	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.14	638.5	29.88	758.9	60	15.6	54	ne.	3	1.3		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.13	689.1	29.86	758.4	48	8.9	58	sw.	13	5.8		0	1 s		sw.	inap.	inap.	clear	B. O. Lenoir.
Atlanta, Georgia	28.97	735.8	30.12	765.0	77.0	25.0	76	nw.	7	3.1		0	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	30.00	762.0	30.01	762.2	70.8	21.6	87	s.	7	3.1		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.94	760.5	30.13	765.3	75.0	23.9	85	se.	1	0.4		0	0			0	0	clear	John Healy.
Baltimore, Maryland	29.99	761.7	30.05	763.3	77	25.0	76	sw.	7	3.1		1 cs;hz	0			inap.	inap.	clear	Robert Seybothe.
Barnegat, New Jersey	29.99	761.7	30.01	762.2	75.3	24.1	78	sw.	5	2.2		4 ck	0	w.		0	0	fair	G. A. Hill.
Bennett, Fort, Dakota	28.16	715.3	29.70	754.4	59	15.0	60	w.	10	4.5		5 k	0	nw.		0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.17	690.1	29.88	758.9	57	13.9	44	w.	14	6.3		0	3 s			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	29.88	758.9	29.90	759.4	43.0	6.1		s.	20	8.9			fg.			0.02	0.5	dense fog	Dr. L. Steineger.
Bismarck, Dakota	27.88	708.1	29.60	751.8	59	15.0	56	w.	20	8.9		0	0			0.06	1.5	clear	Cyrus Cramer.
Block Island, Rhode Island	29.97	761.2	30.00	762.0	69.8	21.0	90	sw.	4	1.8		0	8 ks		sw.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.34	694.4	30.06	763.5	63	17.2	36	ne.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.82	757.4	29.96	761.0	74.0	23.3	70	calm	0	0		6 ck	hz.	w.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.93	760.2	29.97	761.2	79.0	26.1	88	s.	5	2.2		0	2 s		s.	0	0	clear	M. McCarty.
Buffalo, New York	29.14	740.1	29.87	758.7	73	22.8	82	s.	14	6.3		4 cs	4 ks	sw.	sw.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.78	705.6	29.72	754.9	55	12.8	74	w.	15	6.7		3 cs	0	w.		0.03	0.8	clear	A. H. Bell.
Burlington, Vermont	29.63	752.6	29.91	759.7	72.3	22.4	78	s.	6	2.7		5 ck	4 ks	w.	w.	0	0	cloudy	G. O. Schaeffer.
Cairo, Illinois	29.62	752.3	30.01	762.2	75.8	24.3	92	sw.	9	4.0			10 ks		sw.	0	0	threatening	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.22	691.4	29.81	757.2	68	20.0	57	calm			0	1 ck	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.05	763.3	30.07	763.8	77	25.0	76	w.	16	7.2		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.99	761.7	30.02	762.5	72.0	22.2	90	s.	3	1.3		3 c	0	w.		0	0	clear	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.15	765.8	30.17	766.3	77	25.0	85	nw.	2	0.9		3 ck	2 ks		w.	0.64	16.3	fair	F. W. Mixer.
Champaign, Illinois	29.13	739.9	29.92	760.0	67.0	19.4	78	n.	12	5.4			10 s		nw.	0.04	1.0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.07	763.8	30.12	765.0	81	27.2	79	sw.	4	1.8		0	0			0.74	18.8	clear	J. H. Smith.
Charlotte, N. Carolina	29.24	742.7	30.06	763.5	79.0	26.1	69	sw.	3	1.3		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.31	744.5	30.11	764.8	73.5	23.1	83	calm	0	0		1 cs	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.13	612.9	29.82	757.4	53.2	11.8	38	w.	6	2.7		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.21	741.9	29.90	759.4	66.7	19.3	69	nw.	4	1.8		9 k	0	w.		0.36	9.1	cloudy	J. Mitchell.
Chincoteague, Virginia	30.03	762.7	30.05	763.3	77	25.0	85	s.	6	2.7		0	hz.			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.33	745.0	29.97	761.2	76	24.4	82	sw.	4	1.8		0	0			0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.19	741.4	29.91	759.7	75	23.9	76	s.	12	5.4		7 c	0	w.		0	0	fair	J. B. Newlin.
Coleman City, Texas	28.24	717.3	30.00	762.0	72	22.2	97	se.	4	1.8			10 s		se.	1.89	48.0	cloudy	L. Dorman.
Columbus, Ohio	29.13	739.9	29.96	761.0	72	22.2	84	s.	7	3.1		6 cs	0	sw.		0	0	fair	D. Cuthbertson.
Concho, Texas	28.13	714.5	30.01	762.2	71	21.7	97	ne.	12	5.4			10 s		ne.	2.30	58.4	cloudy	W. W. McConihe.
Custer, Fort, Montana	26.83	681.5	29.85	758.2	55	12.8	69	s.	5	2.2		0	0			0	0	clear	V. Verge.
Davenport, Iowa	29.30	744.2	29.93	760.2	64	17.8	78	nw.	3	1.3		4 cs	hz.	calm	calm	1.17	29.7	fair	R. R. Martin.
Davis, Fort, Texas	25.24	641.1	29.88	758.9	68	20.0	84	sw.	4	1.8		0	8 ks			0.68	17.3	cloudy	J. Williams.
Dayton, Washington T'y	28.46	722.9	30.17	766.3	42.0	5.6	83	calm	0	0		0	0			inap.	inap.	clear	H. Clifford.
Deadwood, Dakota	25.36	644.1	29.78	756.4	53.0	11.7	59	sw.	4	1.8		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					71	21.7	71	n.	6	2.7		6 cs	0	n.		2.20	55.9	fair	D. J. Carr.
Delaware Breakwater, Del.	30.00	762.0	30.02	762.5	74	23.3	85	sw.	10	4.5		3 c	hz	w.		0	0	clear	A. Schneider.
Denison, Texas	29.22	742.2	30.00	762.0	74.0	23.3	97	calm	0	0			10 n			1.79	45.5	light rain	J. McGlone.
Denver, Colorado	24.83	630.7	29.84	757.9	67.5	19.7	21	nw.	10	4.5		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.08	738.6	29.96	761.0	58	14.4	86	n.	1	0.4		0	fg.			0.17	4.3	clear	F. W. Conrad.
Detroit, Michigan	29.14	740.1	29.83	757.7	74.6	23.7	76	sw.	12	5.4			10 s		sw.	0	0	threatening	C. F. R. Wappenhans.
Dodge City, Kansas	27.44	697.0	29.94	760.5	62.0	16.7	78	sw.	4	1.8		0	0			0.02	0.5	clear	W. M. Mattingly.
Dubuque, Iowa	29.21	741.9	29.90	759.4	62	16.7	78	calm	0	0		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	28.94	735.1	29.64	752.8	62	16.7	78	sw.	12	5.4		4 cs	2 k	sw.	sw.	0.31	7.9	fair	N. B. Conger.
Eagle Pass, Texas	29.23	742.4	30.02	762.5	75.1	23.9	85	ne.	4	1.8			10 s			2.98	75.7	cloudy	F. Belford.
Eagle Rock, Idaho	25.36	644.1	29.91	759.7	50	10.0	61	sw.	12	5.4		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.89	759.2	29.95	760.7	64.0	17.8	68	sw.	1	0.4		3 ck	0	w.		0.02	0.5	clear	D. C. Murphy.
Elliott, Fort, Texas	27.26	692.4	29.90	759.4	61	16.1	78	calm	0	0			10 s			0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.30	668.0	29.90	759.4	73	22.8	64	ne.	4	1.8		9 ck	0	ne.		0	0	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.19	741.4	29.90	759.4	75	23.9	82	sw.	12	5.4		10 cs	0			0.21	5.3	cloudy	Peter Wood.
Escanaba, Michigan	29.15	740.4	29.79	756.7	62	16.7	78	w.	5	2.2		0	0			0.38	9.7	clear	C. Dill.
Fredericksburg, Texas	28.30	718.8	30.00	762.0	75	23.9	76	n.	6	2.7			10 n		s.	0.15	3.8	light rain	H. S. Miles.
Galveston, Texas	30.00	762.0	30.05	763.3	83	28.3	74	s.	17	7.6		2 c	7 k		sw.	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.21	741.9	29.86	758.4	67.0	19.4	78	nw.	4	1.8		7 cs	0	w.		0.10	2.5	fair	W. A. Reid.
Grant, Fort, Arizona	25.28	642.1	29.85	758.2	72.9	22.7	33	e.	2	0.9		2 k	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.11	764.8	30.13	765.3	78.0	25.6	88	sw.	8	3.6		0	hz.			0	0	clear	R. M. Crawford.
Helena, Montana	25.88	657.3	29.94	760.5	53	11.7	50	w.	6	2.7		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.07	738.4	30.05	763.3	74.0	23.3	84	calm	0	0			10 s			0.23	5.8	cloudy	J. W. Byram.
Huron, Dakota	28.37	720.6	29.69	754.1	59.1	15.1	75	nw.	5	2.2		0	1 k			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.14	740.1	29.91	759.7	74	23.3	97	sw.	2	0.9			10n;fog		sw.	0.25	6.3	light rain	O. Schutze
Indianola, Texas	30.01	762.2	30.04	763.0	81.2	27.3	88	s.	12	5.4		2 cs	3 k	n.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.86	733.0	29.98	761.5	73	22.8	90	nw.	3	1.3		5 ck	4 s	nw.	n.	1.57	39.9	clearing	J. P. Sherry.
Jacksonville, Florida	30.12	765.0	30.16	766.1	79	26.1	77	s.	1	0.4		4 cs	0	w.		0.03	0.8	fair	J. W. Smith.
Keogh, Fort, Montana	27.42	696.5	29.83	757.7	54	12.2	57	sw.	9	4.0		0	0			0.01	0.3	clear	W. B. Stockman.
Keokuk, Iowa	29.29	744.0	29.92	760.0	66.5	19.2	72	calm	0	0		0	0			0.35	8.9	clear	F. Z. Gosewisch
Key West, Florida	30.09	764.3	30.11	764.8	86.5	30.3	68	s.	4	1.8		4 c	1 k			0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.11	764.8	30.13	765.3	77.0	25.0	82	sw.	12	5.4		hz.	0			0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.09	738.9	30.09	764.3	73.8	23.2	83	calm	0	0		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.08	738.6	29.84	757.9	69	20.6	57	s.	6	2.7		0	0			0.09	2.3	clear	S. C. Emery.
La Mesilla, New Mexico	26.15	664.2	29.89	759.2	69.5	20.8	58	calm	0	0		3 c	2 s			inap.	inap.	fair	N. D. Lane.
Leavenworth, Kansas	29.14	740.1	30.00	762.0	59	15.0	87	calm	0	0		3 cs	fg.			inap.	inap.	fair	A. W. Browne.
Lewiston, Idaho	29.36	745.7	30.17	766.3	56.0	13.3	51	w.	2	0.9		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.70	754.4	30.01	762.2	75	23.9	97	sw.	1	0.4		0	9 s		s.	0.46	11.7	cloudy	W. U. Simons.
Los Angeles, California	29.66	753.4	30.05	763.3	61.4	16.3	84	n.	2	0.9			10 s			0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.41	747.0	29.99	761.0	77	25.0	82	s.	8	3.6		1 k	0			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.38	746.2	30.06	763.5	77.0	25.0	74	s.	1	0.4		3 c	1 s			0.01	0.3	fair	W. R. Bushby.
Macon, Fort, North Carolina	30.11	764.8	30.12	765.0	78	25.6	77	sw.	3	1.3		hz.	0			0	0	clear	F. P. Chaffee.
Madison, Wisconsin	28.90	734.0	29.88	758.9	58	14.4	93	nw.	4	1.8		0	0			0.83	21.1	clear	C. A. Shaw.
Maginnis, Fort, Montana																			H. W. Dodge.
McKavett, Fort, Texas	27.78	705.6	29.98	761.5	69	20.6	90	sw.	4	1.8			10 n			0.44	11.2	light rain	J. E. Thatcher.
Marquette, Michigan	29.04	737.6	29.75	755.6	65	18.3	63	w.	18	8.0		0	0			0.26	6.6	clear	J. Gilligan.
Memphis, Tennessee	29.70	754.4	30.03	762.7	76	24.4	85	s.	12	5.4			10 s			inap.	inap.	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.15	740.4	29.88	758.9	62	16.7	84	w.	6	2.7		2 c	0			0.12	3.0	clear	W. Line.

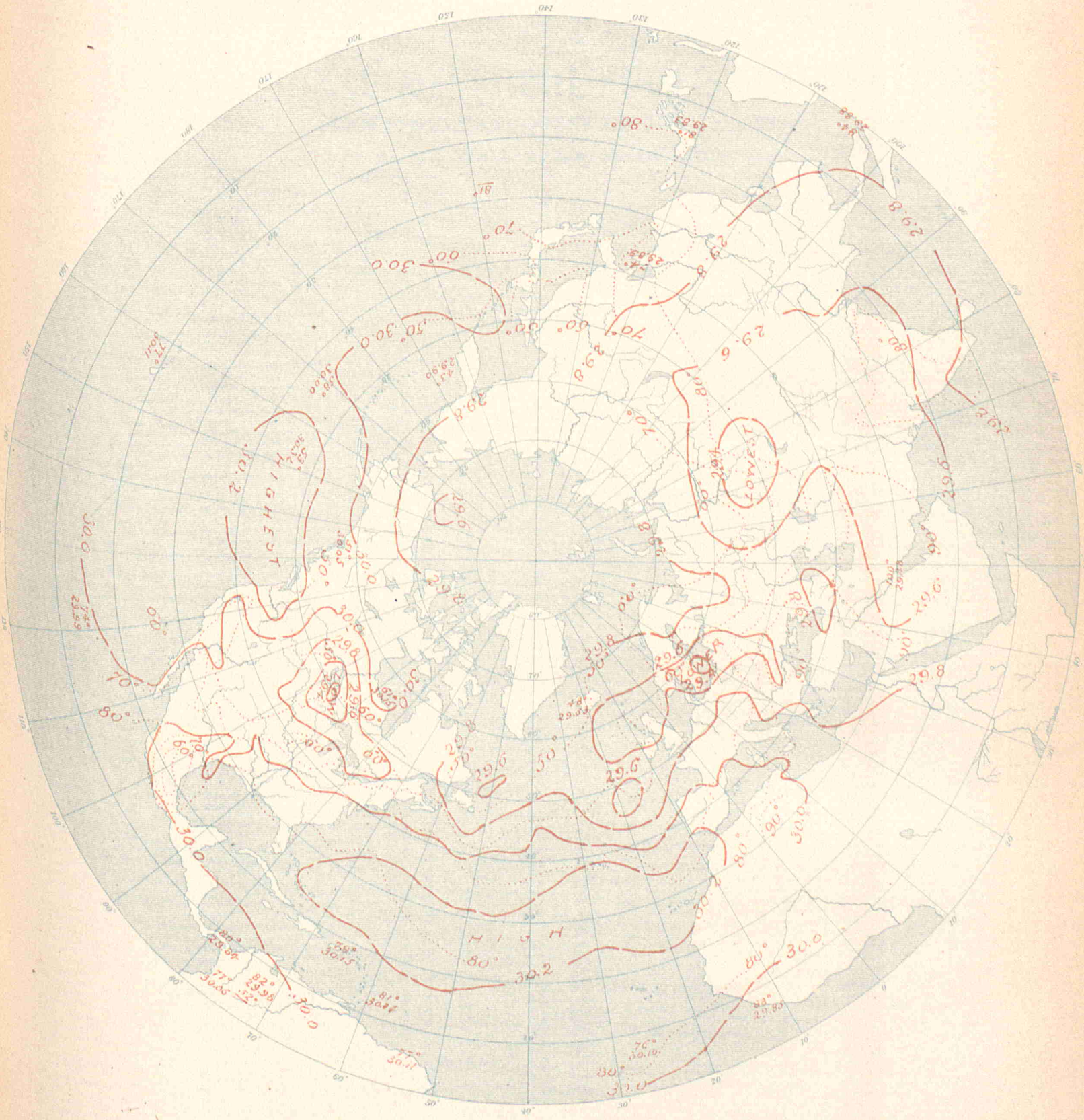
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.84	681.7	30.03	762.7	58	14.4	44	sw.	4	1.8		0	0			0	0	clear	J. H. Jones.
Mobile, Alabama	30.10	764 5	30.14	765.5	76	24.4	90	calm	0	0		1 c	0	sw.		0.56	14.2	clear	C. A. Read.
Montgomery, Alabama	29.91	759.7	30.13	765.3	75.5	24.2	77	sw.	5	2.2		0	1 s			0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.58	725.9	29.54	750 3	62	16.7	84	calm	0	0			10 s		w.	0.26	6.6	cloudy	H. Bessant.
Morgantown, W. Virginia	29.04	737.6	30.04	763.0	79.5	26.4	78	calm	0	0		0	0			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.91	607.3	29.98	761.5	49.0	9.4	96	w.	24	10.7			fg.		nw.	0.07	1.8	dense fog	J. G. Linsley
Nashville, Tennessee	29.52	749.8	30.04	763.0	78.0	25.6	76	sw.	1	0.4		1 cs	0	sw.		0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.88	758.9	29.99	761.7	72	22.2	87	sw.	2	0.9		2 cs	hz.	sw.		0	0	clear	J. H. Sherman.
New London, Connecticut	29.95	760.7	30.00	762.0	71	21.7	94	s.	2	0.9		8 k	0			0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.06	763.5	30.10	764.5	78.8	26.0	88	se.	2	0.9		3 c	sk.	sw.		0.28	7.1	clear	L. Dunne.
Newport, Rhode Island	29.94	760.5	30.00	762.0	71.2	21.8	84	sw.	3	1.3		2 c	hz.			0	0	clear	W. McGillivray.
New York, New York	29.84	757.9	30.00	762.0	74	23.3	82	sw.	2	0.9		1 cs	0			0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.05	763.3	30.08	764.0	81	27.2	74	sw.	4	1.8		0	0			0	0	clear	H. L. Kemp.
North Platte, Nebraska	27.08	687.8	29.88	758.9	57.6	14.2	70	e.	3	1.3		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.26	768.6	30.30	769.6	45.0	7.2	93	s.	1	0.4		8 k	0	e.		0	0	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.57	751.1	29.59	751.6	43.0	6.1	92	ese.	10	4.5		0	5 s		sw.	0 04	1.0	fair	P. H. Ray.
Omaha, Nebraska	28.80	731.5	29.93	760.2	67.6	19.8	69	sw.	14	6.3		0	0			0.52	13.2	clear	A. Pollak.
Oswego, New York	29.55	750.6	29.87	758.7	74.0	23.3	76	s.	8	3.6			10 n		w.	inap.	inap.	light rain	S. W. Beall.
Palestine, Texas	29.50	749.3	30.04	763.0	76.0	24.4	90	s.	5	2.2		5 ck	5 ks	s.	s.	0.01	0.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.10	764.5	30.14	765.5	77.2	25.1	90	w.	2	0.9		0	0			0.35	8.9	clear	M. McGauran,
Philadelphia, Pa.	29.92	760.0	30.02	762.5	77	25.0	82	sw.	3	1.3		1 c	0	nw.		0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.05	458.5	29.83	757 7	34	1.1	60	nw.	18	8.0		0	0			0	0	clear	L. M. Dey.
Ploche, Nevada	24.20	614.7	29.93	760.2	58.5	14.7	32	sw.	2	0.9		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.18	741.2	29.97	761 2	75.0	23.9	79	s.	7	3.1		0	0			inap.	inap.	clear	J. H. Bryce.
Poplar River, Montana	27.65	702 3						nw.			4	0	0			0.03	0.8	clear	W. D. Maxwell.
Port Eads, Louisiana	30.12	765.0	30.14	765.5	81.0	27.2	88	s.	6	2.7		0	2ks;hz		s.	0	0	clear	M. Hermann.
Port Huron, Michigan	29.14	740.1	29.80	756.9	71.4	21.9	90	s.	13	5.8			10 n			0.01	0.3	light rain	W. O. Bailey.
Portland, Maine	29.89	759.2	29.94	760.5	72	22.2	68	e.	1	0.4		4 cs	0			0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.22	767.6	30.29	769.4	49.1	9.5	86	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Prescott, Arizona	25.03	635.8	30.02	762.5	58	14.4	67	sw.	2	0.9		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.94	760.5	29.97	761.2	71.0	21.7	84	sw.	2	0.9		0	3 s			inap.	inap.	clear	P. T. Jenkins.
Punta Rassa, Florida	30.13	765.3	30.14	765.5	77.5	25.3	82	e.	6	2.7		4 c	1 k	calm	calm	inap.	inap.	fair	W. J. Evans.
Red Bluff, California	29.58	751.3	29.94	760.5	74.2	23.4	43	nw.	5	2.2		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.77	756.1	30.00	762.0	81	27.2	74	se.	10	4.5		0	5 ks		se.	0	0	fair	P. M. Wilson.
Rochester, New York	29.21	741.9	29.86	758.4	73	22.8	82	sw.	12	5.4		7 c	hz.			0	0	fair	E. W McGann
Roseburg, Oregon	29.65	753.1	30.19	766.8	57	13.9	77	nw.	3	1.3			10 s		w.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.86	758.4	29.93	760.2	67.4	19.7	59	se.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.38	746.2	29.96	761.0	72.0	22.2	94	n.	6	2.7			10 s		w.	0.88	22.4	cloudy	J. H. Webber.
St. Paul, Minnesota	28.90	734.0	29.74	755.4	62	16.7	72	s.	8	3.6		0	0			0.01	0.3	clear	P. F. Lyons
St. Vincent, Minnesota	28.57	725.7	29.41	747.0	57	13.9	80	sw.	10	4.5		2 ck	2 ks	w.		0.37	9.4	fair	G. Kingsbury.
Salt Lake City, Utah	25.73	653.5	29.91	759.7	59	15.0	50	calm	0	0		0	0			c	0	clear	J. Craig.
San Antonio, Texas	29.32	744.7	30.00	762.0	77.0	25.0	74	n.	5	2.2			10 ks			0	0	threatening	T. J. Kenan.
San Diego, California	29.96	761.0	30.03	762.7	58.1	14.5	87	nw.	3	1.3		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.22	742.2	29.88	758.9	75.0	23.9	82	s.	16	7.2		5 ck	0	sw.		0.01	0.3	fair	M. H. Perry.
Sandy Hook, New Jersey	29.97	761.2	30.00	762 0	76.5	24.7	82	se.	3	1.3		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.93	760.2	30.00	762.0	53	11.7	96	w.	15	6.7		0	fg.		w.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.40	594.3	29.90	759.4	55	12.8	40	ne.	1	0.4		0	0			inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	30.05	763.3	30.14	765.5	82	27.8	72	sw.	6	2.7		0	0			inap.	inap.	clear	H. W. Ford.
Shaw, Fort, Montana	26.40	670.5	29.91	759.7	48	8.9	52	nw.	6	2.7		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.80	756.9	30.03	762.7	79	26.1	88	s.	4	1.8			10 s		s.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.80	731.5	30.00	762.0	68.3	20.2	92	calm	0	0			10 s		n.	1.93	49.0	cloudy	T. Cleary.
Silver City, New Mexico	24.38	619.2	29.84	757.9	62	16.7	60	s.	4	1.8		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.99	761.7	30.05	763.3	50.5	10.3	84	se.	6	2.7			10 n		se.	0.59	15.0	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.52	749 8	29.98	761.5	74.5	23.6	97	calm	0	0			10 n		ne.	0.27	6.9	light rain	J. B. Campbell.
Smithville, North Carolina	30.10	764.5	30.13	765.3	80	26.7	79	w.	1	0.4		4 k	0			0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.13	714.5	30.11	764.8	49	9.4	66	sw.	10	4.5		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.29	744.0	29.95	760.7	68	20.0	76	n.	4	1.8		2 c	5 s	w.	w.	0.18	4.6	fair	T. B. Jennings.
Springfield, Massachusetts	29.87	758.7	30.00	762.0	76.3	24.6	76	s.	2	0.9		6 ck	0	w.		0	0	fair	T. S. Outram.
Springfield, Mo.	28.59	726.2	29.98	761.5	72	22.2	82	n.	1	0.4			10 ks		n.	inap.	inap.	cloudy	J. B. Marbury.
Starkville, Miss.	29.62	752.3	30.10	764.5	75.1	23.9	90	s.	8	3.6		0	1 s			0.54	13.7	clear	M. J. Wright, jr.
Stevenson, Fort, Dakota	27.82	706.6	29.60	751.8	59	15.0	66	nw.	12	5.4		0	0			inap.	inap.	clear	W. Burrows
Stockton, Fort, Texas	27.04	686.8	29.98	761.5	71.0	21.7	90	s.	4	1.8			10 s		calm	0.60	15.2	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	29.92	760.0	29.97	761.2	68.5	20.3	78	w.	3	1.3		2 ck	0	w.		inap.	inap.	clear	G. Liebmann.
Toledo, Ohio	29.18	741.2	29.85	758.2	76	24.4	76	sw.	11	4.9			10 s		sw.	0	0	threatening	A. Buell.
Tucson, Arizona	27.56	700.0	29.88	758.9	73	22.8	55	calm	0	0		3 c	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.88	758.9	30.24	768.1	51.5	10.8	68	w.	3	1.3		0	0			0	0	clear	J. Daly.
Uvalde, Texas	29.03	737.3	29.97	761.2	72	22.2	97	se.	0	2.7			10 s			0.16	4.1	threatening	E. C. Imlay.
Verde, Fort, Arizona					67.3	19.6	53	w.			1	0	0			0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.84	757.9	30.08	764.0	76	24.4	90	s.	1	0.4			10 s		s.	0	0	cloudy	H. P. Brisbane.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.48	621.8	29.81	757 2	63.5	17.5	36	n.	13	5.8		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	29.93	760.2	30.04	763.0	78.2	25.7	77	sw.	3	1.3		1 c	0			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.08	662.4	29.84	757.9	53	11.7	54	nw.	4	1.8		0	0			0	0	clear	F. W. Brandenburg.
Williamsport, Pa.	29.39	746.5	29.97	761.2	68.5	20.3	87	calm	0	0			fg.			0	0	dense fog	B. F. Hough.
Wilmington, N. Carolina	30.08	764.0	30.13	765.3	76	24.4	85	calm	0	0		0	0			0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.76	654.3	29.98	761 5	53.5	11.9	31	w.	3	1.3		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.53	724.6	29.80	756.9	67	19.4	68	w.	23	10.3		0	0			0	0	clear	J. H. Attield.
Yuma, Arizona	29.72	754.9	29.86	758.4	75.0	23.9	69	calm	0	0		3 cs	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6			52 0	11.1	76	sw.	1	0.4		2 ck	4 s	nw.	n.	0.06	1.5	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.13	765.3	30.14	765.5	81	27.2	95	e.				5 k	10 ks	e.		0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.03	762.7	30.06	763.5	77	25.0	95	s.	4	1.8			10 n		s.	2.90	73.7	light rain	J. I. Plume.
Kingston, Jamaica, W. I.	30.08	764.0	30.09	764.3	82.8	28.2	64	calm	0	0		1 cs	0	ne.		0	0		Robert Johnston.
Magua, San Domingo, W. I					74	23.3		calm			0	7 ks	0	se.		0	0		S. M. Pike.
Navassa	29.99	761.7	30.07	763.8	81	27.2	76	e.	6	2.7		6 ck	1 s	se.	e.	0	0		F. M. Everett.
Paramaribo, S. A.	30.11	764.8	30.11	764.8	77	25.0	86	se.			2		8 ps	e.	e.	0.210	5.3	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.43	747.5	29.98	761.5	82	27.8	80	s.			1	5 c	3 k	calm	s.	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							98	ne.			1	1 c	10 ks	se.	ne.	0.04	1.0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.06	763.5	30.09	764.3	81	27.2	70	n.	9.6	4.3		1 ck	0			0	0	clear	Robert Mason.
York Factory, H. A.	30.09	764.3	30.15	765.8	61.0	16.1	88	n.	13	5.8		1 c	1 s	n.	n	0	0	fair	Fortesque & Wood

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, S. 21° 39′, E. 1° 17′	30.31	769.9	65.2	18.4	68	se.			2-3		10							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.81	757.2	79	26.1	86	nw.			2-3		0					1	wnw	blue sky.
H. M. S. Amethyst, Montevideo, Uruguay	30.32	770.1	52	11.1	82	ese.			1		0							blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.81	757.2	77	25.0		nne.			2									blue sky.
H. M. S. Bacchante, Valencia, Spain	30.05	763.3	76	24.4	64	ese.			4		3	ssw.						squally.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.15	765.8	69	20.6		calm			0		0							blue sky.
H. M. S. Champion, N. 27° 30′, E. 148° 50′			81	27.2	100	ne.			3		0					2	ene.	blue sky.
H. M. S. Comus, N. 48° 02′, E. 152° 36′	30.05	763.3	50	10.0	86	ene.			2-3		10					3	e.	raining.
H. M. S. Diamond, S. 4° 13′, E. 152° 11′	29.92	760.0	81	27.2	87	calm			0		2							d. clouds.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.10	764.5	81	27.2		ene.			2		4	e.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.21	767.3	79	26.1	86	sw.			1-2		5	ssw.						d. clouds.
H. M. S. Druid, N. 18° 44′, W. 75° 07′	30.08	764.0	83	28.3	83	e.					3	e.				3	e.	d. clouds.
H. M. S. Eclipse, S 12° 05′, E. 40° 45′	30.13	765.3	79	26.1		sse.			3		2					2	ene.	d. clouds.
H. M. S. Emerald, S. 11° 50′, W. 17° 30′	30.19	766.8	73.5	23.1	88	ene.			2-3		5	e.				1	ese.	squally.
H. M. S. Espiegle, S. 15° 11′, E. 168° 04′	30.01	762.2	78	25.6	90	ese.			3		2							squally.
H. M. S. Fantome, Saint Lucia, Jamaica	30.07	763.8	80	26.7		calm			0		4	ne.						d. clouds.
H. M. S. Fawn, S. 27° 34′ E. 33° 24′	30.37	771.4	66.5	19.2	78	calm			0		6	ssw.				4	ssw.	d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.06	763.5	58.5	14.7	87	calm			0		10							overcast.
H. M. S. Garnet, S. 14° 30′, W. 19° 40′	30.15	765.8	73	22.8	71	ese.			5		4							d. clouds.
H. M. S. Griffon, N. 51° 12′ W. 55° 40′	29.52	749.8	52	11.1	86	n.			2		10							misty
H. M. S. Iris, Port Said, Egypt	29.96	761.0	80	26.7	82	wnw.			2-3		1	wnw.				1	wnw.	blue sky.
H. M. S. Iron Duke, N. 41° 46′, E. 140° 42′	29.91	759.7	61	16.1	94	se.			1		8	se.						raining.
H. M. S. Kingfisher, San Francisco, Cal.	30.06	763.5	57	13.9		wsw.			2		6							d clouds.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	30.01	762.2	76.3	24.6	93	calm			0		5					1	se.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.04	763.0	48.5	9.2		calm			0		10							foggy.
H. M. S. Magpie, N. 33° 54′, E. 130° 29′	29.92	760.0	67.9	19.9	92	nne.			4-5		10					3	nw.	misty.
H. M. S. Minotaur, N. 35° 36′, E. 21° 07′	29.84	757.9	80	26.7	84	wnw.			2		0					1	nw.	misty.
H. M. S. Nelson, S. 36° 50′ E. 174° 49′	29.71	754.6	57	13.9	81	e.			6-7									showery.
H. M. S. Northampton, Halifax, Nova Scotia	29.85	758.2	63.5	17.5	76	nnw.			1		7	nnw.						d. clouds
H. M. S. Orion, N. 44° 59′, W. 8° 34′	29.98	761.5	62.5	16.9		wsw.			1		6	w.				4	w.	misty.
H. M. S. Orontes, N. 37° 03′, E. 4° 12′	30.16	766.1	73.5	23.1	78	wnw.			2		0					1	wsw.	blue sky.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.88	758.9	83.5	28.6	71	w.			1		1							blue sky.
H. M. S. Rambler, James Bay, Saint Helena Is'd	30.20	767.1	70	21.1	84	se.			2		7							squally.
H. M. S. Rocket, Vancouver Island, B. C.	30.29	769.4	52	11.1	72	calm			0		4							d. clouds.
H. M. S. Sappho, S. 20° 38′ W. 146° 48′	30.02	762.5	74.5	23.6		nnw.			3		8	calm				4	w.	showery.
H. M. S. Swiftsure, Rio de Janeiro, Brazil	30.24	768.1	70.5	21.4	80	wnw.			1		3							foggy.
H. M. S. Sylvia, Montevideo, Uruguay	30.35	770.9	49.7	9.8	78	e.			1		3	calm						d. clouds.
H. M. S. Tenedos, N. 48° 27′ W. 58° 28′	29.68	753.9	49	9.4	100	w.			3		10					1	sw.	misty.
H. M. S. Triumph, Talcahuano, Chili	30.25	768.3	48	8.9	77	sw.			1-2		5	sw.						d. clouds.
H. M. S. Woodlark, Off Bassorah, Asiatic Turkey	29.38	746.2	99.5	37.5	37	nw.			2		0							blue sky.
H. M. S. Zephyr, N. 23° 44′, E. 118° 24′	29.81	757.2	83	28.3	91	ne.			1		0					1	s.	blue sky.
Portuguese Naval.																		
Rio Lima, Fogo, Cape Verd Islands	30.10	764.5	75.2	24.0	?	ssw.			1		10					2		overcast.
Tamega, Macao, China	29.84	758.0	86.0	30.0	78	sse.			3		0			4 h'r	4 h'r			blue sky.
Swedish Naval.																		
Saga, Harofiord, Norway	29.59	751.6	62.1	16.7	84	nne.			2		6							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.09	764.3	77	25.0	9[illegible]	ne.	2	0.9			2		ne.	0.20	5.1			fair.
Navy Yard, Portsmouth, N. H.	29.97	761.2	73	22.8	81	calm	0	0			8			0	0			hazy.
Naval Hospital, Yokohama, Japan*	29.73	755.1	75.5	24.2	90	sw.			2		10		sw.	sli't	sli't			cloudy.
Adams, Mare Island, Cal.	29.98	761.5	60	15.6	94	sw.			3		0			0	0	sm'h		clear.
Alaska, Callao, Peru	29.97	761.2	60	15.6	94	calm			0		10			0.08	2.0	sm'h		cloudy.
Alert, N. 46° 25′, W. 155° 34′*	30.17	766.3	53	11.7	80	wsw.			3		10		wsw.			sm'h	wnw.	overcast.
Alliance, Boston, Mass.	29.91	759.7	73	22.8	81	w.			1		8			0	0			fair.
Ashuelot, Yokohama, Japan*	29.81	757.2	77	25.0	86	ssw.			1		10		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.28	769.1	70	21.1	90	wnw.	4	1.8			8		w.	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.00	762.0	76	24.4	82	calm	0	0			2		calm	0	0			hazy.
Constellation, N. 37° 56′, W. 73° 15′*	30.10	764.5	72	22.2	95	ssw.			4		2		calm			sm'h		fair.
Enterprise, New York, N. Y.*	29.98	761.5	75	23.9	90	sw.			1		0							clear.
Essex, S. 50° 55′. W. 80° 16′	29.36	745.7	45	7.2	84	wsw.			3-6		2		wsw.			mod.	wsw.	squally.
Franklin, Norfolk, Va.	30.10	764.5	70	24.4	80	sw.	6	2.7			0			0	0			clear.
Galena, Alexandria, Egypt	29.78	756.4	81	27.2	91	nw.			3		0					sm'h		clear.
Independence, Mare Island, Cal.	29.99	761.7	59	15.0	88	sw.			4		0			0	0			hazy.
Iroquois, San Francisco, Cal.	29.99	761.7	56	13.3	87	w.			4		0			0	0			clear.
Kearsage, Norfolk, Va.	30.07	763.8	77	25.0	95	s.			1		0							clear.
Lackawanna, Callao, Peru*	30.00	762.0	61	16.1	82	calm			0		10							cloudy.
Lancaster, Alexandria, Eyypt*	29.76	755.9	82	27.8	96	nw.			3		0			0	0	sm'h	nw.	clear.
Marion, S. 34° 54′, W. 56° 13′	30.29	769.4	52	11.1	100	e.			2		2		calm	0	0	sm'h		fair.
Michigan, Detroit, Michigan	29.99	761.7	72	22.2	90	se.			1		10		sw.					cloudy.
Minnesota, Newport, R. I.	30.03	762.7	65	18.3	94	ssw.	1	0.4			5		sw.					clearing.
Monocacy, Chefoo, China	29.89	759.2	74	23.3	86	se.			1		2		calm			sm'h		fair.
New Hampshire, Newport, R. I.	30.01	762.2	65	18.3	100	sw.			1		2					sm'h		foggy.
Nipsic, N. 33° 26′ E. 26° 18′*	29.72	754.9	81	27.2	83	w.			3		0					sm'h		clear.
Onward, Callao, Peru†	30.15	765.8	58	14.4	94	calm			0		10		s.			long	w.	misty.
Palos, Kobe, Japan*	29.83	757.7	75	23.9	95	calm			0		10		sw.					cloudy.
Passaic, Washington, D. C.	30.07	763.8	78	25.6	95	sw.			2		0							clear.
Pensacola, N. 8° 20′, W. 79° 26′*	29.84	757.9	80	26.7	87	nw.			4		8			0.08	2.0	sm'h	nw.	fair.
Portsmouth, Lisbon, Portugal*	30.17	766.3	66	18.9	94	w.			3		2							fair.
Powhatan, N. 27° 55′, W. 84° 55′	30.14	765.5	84	28.9	75	ssw.			2		8					sm'h		cloudy.
Quinnebaug, Alexandria, Egypt	29.76	755.9	80	26.7	78	nw.			3		0					sm'h		hazy.
Ranger, Mare Island, Cal.	30.02	762.5	60	15.6	88	ssw.			2		0			0	0			clear.
Richmond, Yokohama, Japan*	29.80	756.9	77	25.0	91	sw.			1		10		sw.	0	0			cloudy.
Saratoga, Lisbon, Portugal	30.18	766.6	69	20.6	85	w.			2		8		w.	light	light	sm'h		cloudy.
St. Louis, League Island, Pa.	30.23	767.8	75	23.9	80	sw.			2		2			0	0			clear.
Swatara, Yokohama, Japan*	29.70	755.9	77	25.0	86	wsw.			2		10		calm			sm'h		drizzling.
Tennessee, New York, N. Y.	30.06	763.5	74	23.3	95	ssw.	3	1.3			2			0	0			light fog.
Vandalia, Portsmouth, N. H*†	29.93	760.2	73	22.8	70	calm			0		8		calm					fair.
Wabash, Boston, Mass.	29.97	761.2	77	25.0	61	calm	0	0			8		w.	0	0			fair.
Wachusetts, Highfield, Alaska†	30.31	769.9	48	8.9	100	e.			1		10					sm'h		rainy.
Wyoming, Port Royal, S. C*	30.09	764.3	76	24.4	86	sw.	2	0.9			2		calm	0	0			clear.
Yantic, off Fort Point, Maine	29.95	760.7	63	17.2	83	calm			0		2							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 50° 10′, W. 58° 30′.*	29.66	753.4	47	8.3	100	n.			4		10		nne.	0.01	0.3	2	ne.	misty.
S. S. Grecian, N. 52° 54′, W. 50° 37′*.	29.59	751.6	46	7.8		ene.			5		10		ene.	11 h'r	11 h'r	mod.	ene.	misty.
S. S. Scandinavian, N. 44° 33′, W. 54° 13′*	29.66	753.4	54	12.2		w.			2		10		w.	1 h'r	1 h'r	mod.	sw.	foggy.
S. S. Waldensian, Glasgow, Scotland *	29.60	751.8	57	13.9		var.			3		8		w.	0	0			fine.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, iverpool, Eng *†	29.70	754.4				sw.			4		5		sw.	0	0			fine.
S. S. Lord Gough, N. 50° 35′ W. 31° 15′	29.84	757.9	54	12.2		nw.			4		8		nw.	6 h'r	6 h'r	cross	nnw.	fair.
S. S. Pennsylvania, N. 39° 33′, W. 59° 41′†	30.07	763.8	76	24.4		wsw.			6		7		w.			mod.	w.	overcast.
ANCHOR LINE.																		
S. S. Alexandria, N. 47° 17′ W. 7° 46′	29.86	758.4	61.5	16.4		sw.			4		8		sw.	0	0	6	sw.	gloomy.
S. S. Assyria, N. 40° 27′, W. 26° 09′*†	30.26	768.6	71	21.7		wsw.			5		8		wsw.	0	0	mod.	wsw.	hazy.
S. S. Devonia, N. 53° 50′, W. 20° 20′†	29.64	752.8	58	14.4		nw.			1		2		nw.			short	nw.	clear.
S. S. Galatia, N. 36° 08′, E. 13° 12′†	30.16	766.1	75.3	24.1		nnw.			7		4		nnw.	0	0	r'gh	nnw.	hazy.
ATLAS LINE.																		
S. S. Alvo, Savannah la Mar, Jamaica, W.I	30.10	764.5				calm			0		0			0	0			clear.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Halifax, N. S.†	29.96	761.0	63	17.2		nnw.							nw.	rain	rain			heavy rain.
BRITISH METEOROLOGICAL OFFICE.																		
Aukland, N. 8° 36′, W. 24° 27′	30.07	763.8	80	26.7	87	sse.			2		6							blue sky
S. Baroda, S. 29° 45′, E. 32° 17′	30.41	772.4	66.7	19.3	74	calm			0		1							blue sky.
S. S. City of Agra, N. 8° 54′, W. 24° 15′	30.03	762.7	81.6	27.6	90	sse.			2		6							d. clouds.
S. S. Cipero, N. 24° 48′ W. 53° 11′	30.29	769.4	79.7	26.5	82	se.			3		4							d clouds.
S. S. Gordon Castle, N. 37° 15′, E. 3° 28′	30.17	766.3	79	26.1	69	wsw.			2		0							misty.
S. S. Markland, S. 33° 01′, W. 132° 31′	30.07	763.8	63	17.2	99	n.			5		4					4	n.	d. clouds.
S. S. May Hulse, S. 13° 31′, W. 23° 52′	30.26	768.6	73	22.8	81	e.			5		6							showery.
Bkt. Oamarn, S. 30° 30′, E. 32° 08′	30.40	772.1	67.5	19.7	64	n.			1		4							d. clouds.
S. S. Pole Star, N. 16° 15′ W. 33° 44′	30.17	766.3	75	23.9	95	ne.			5		10							overcast.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico N. 28° 22′, W. 115° 08′*†	30.01	762.2	59	15.0	70	se.			1		2		se.	0	0	mod.	wnw.	clear.
CROMWELL LINE.																		
S. S. Hudson, N. 34° 02′ W. 76° 50′†	30.19	766.8	76	24.4		sw.			1		2		sw.	0	0	mod.	s.	fair.
CUNARD LINE.																		
S. S. Bothnia, N. 45° 27′, W. 40° 01′	30.01	762.2	65	18.3	89	sw.			3		10		w.	0	0		w.	cloudy.
S. S. Gallia, N. 40° 57′, W. 67° 21′	30.03	762.7	72	22.2	90	sw.			3		5		se.	0	0	sm'h		foggy.
S. S. Marathon, Off Boston, Mass.	29.94	760.5	67	19.4		calm			0		1		w.	0	0	sm'h	w.	fine.
S. S. Scythia, Liverpool, Eng	29.68	753.9	67	19.4	90	nw.			1		4		nw.	sh'rs	sh'rs			fine.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N 41° 18′, W. 61° 36′†	29.83	757.7	73.4	23.0		wnw.			6	ck		wnw.		0	0	h'vy	wnw.	hazy.
S. S. Ville de Marseilles, Marseilles, France*†	29.95	760.7	73.5	23.1		wnw.			3		0			0	0			clear.
GUION LINE.																		
S. S. Arizona, N. 40° 30′, W. 72° 48′	29.99	761.7	67	19.4		sw.			3		3		sw.	0	0	sm'h		
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Gellert, N. 40° 55′, W. 63° 25′	30.00	762.0	74	23.3		w.			3		10		sw.	0	0	mod.	w.	covered.
S. S. Herder, New York, N. Y. *†	29.95	760.7	60	15.6		sw.			3		10		s.	0	0			covered.
S. S. Silesia, N. 44° 54′, W. 37° 40′†	30.14	765.5				wsw.			5		10		sw.	0	0	5	w.	overcast.
INMAN LINE.																		
S. S. City of Berlin, N. 48° —′ W. 31° —′	29.62	752.3				nnw.			5		9		nw.	sh'rs	sh'rs	r'gh	wsw.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 19° 00′, W. 24° 10′*†	30.34	770.6	75	23.9		ne.			5		4		ne.	0	0	sm'h		clear.
MALLORY LINE.																		
S. S. Colorado, Galveston, Texas†	30.06	763.5	81	27.2		se.			3		2		se.	0	0			clear.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 35° 01′, W. 26° 44′*†	30.40	772.1	76	24.4	90	wnw.			2		1		nnw.	0	0	sm'h	nw.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 43° 15′, W. 49° 16′†	29.95	760.7	58	14.4	87	w. & s.			3		5			5 h'r	5 h'r	sm'h		rain & fog.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 20° 03′, W 38° 12′	29.86	758.4				ene.			3				ese.	0	0	mod.	ene.	fine.
S. S. Glenapp, N. 37° 46′ W 72° 48′†	30.23	707.8				wsw.			3		2		calm	0	0	sm'h		clear.
MORGAN LIN																		
S. S. New York, N. 34° 40′, W. 76° 05′*†	30.21	767.3	79	26.1		sw.							sw.	0	0		ssw.	clear.
NATIONAL LINE.																		
S. S. Denmark, N. 49° 29′, E. 0° 05′	29.72	754.9	64	17.8		w.			4		5		wsw.	2 h'r	2 h'r			fine.
S. S. England, N. 46° 56′, W. 33° 04′	29.88	758.9				nnw.			5		8		nw.	0	0	high	con.	cloudy.
S. S. Erin, Liverpool, Eng	29.86	758.4	59	15.0		wnw.			4		1			0	0			fine.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N 36° 43′ W. 73° 52′†	30.17	766.3	74	23.3		sw.			1		0			0	0	sm'h		fine.
S. S. Saratoga, N. 32° 45′, W. 75° 45′†	30.37	771.4	79	26.1	82	ssw.			3		4		sw.	0	0	sm'h		hazy.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Progreso Roads, Mexico†	30.22	767.6	80	26.7	86	e.			1		2		e.	0	0			clear.
S. S. City of Washington, N. 30° 40′, W. 79° 43′*†	30.30	769.6	82	27.8		e.			2		5		se.	0	0			fine.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. State of Nebraska, N. 54° 14′, W. 16° 20′†	29.62	752.3	56	13.3		w.			2–3							sm'h		cloudy.
NORTH GERMAN LLOYD.																		
S. S. Habsburg, N. 40° 19′, W. 66° 36′	30.06	763.5	74.3	23.5		w.			4		2		w.	0	0	mod.	w.	fair.
S. S. Hermann, N. 41° 18′ W. 63° 21′	30.01	762.2	68.0	20.0		w.			4		8		w.	5 h'r	5 h'r	mod.	w.	foggy.
S. S. Hohenzollern, N. 39° 47′, W. 56° 45′*	30.01	762.2	71.6	22.0		w.			5		10?		w.	0	0	mod.	w.	clear?
S. S. Leipzig, N. 48° 50′, W. 16° 55′	29.51	749.5	58.0	14.4	?	se.			6		10		se.	13 h'r	13 h'r	mod.	nw.	light rain
S. S. Mosel, N. 45° 07′, W. 39° 22′	30.07	763.8	54.5	12.5		wsw.			5		8		wsw.	2½h'r	2½h'r	r'gh	w.	cloudy.
S. S. Ohio, Bremerhaven, Germany	29.73	755.1				nnw.			5		4?		nnw.	5 h'r	5 h'r			cloudy?
S. S. Rhein, N. 49° 40′ W. 12° 12′	29.03	752.6				s.			2		5		s.	light	light	mod.	s.	fair.
S. S. Strassburg, N. 48° 58′, W. 17° 20′	29.42	747.3	57.0	13.9	87	s.			4		10		ssw.	6 h'r	6 h'r	mod.	nw.	covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, Yokohama, Japan†*	29.84	757.9	75	23.9	85	calm			0		10			0	0			overcast.
S. S. Belgic, San Francisco, California†	30.04	763.0	58	14.4	81	s.			6		0							clear.
S. S. Coptic, N. 30° 27′ E. 129° 19′†	29.84	757.9	79.0	26.1	100	sw.			2		6		sw.	0	0	2	sw.	d. clouds.
S. S. Gaelic, N. 39° 22′, W. 126° 10′†	30.17	766.3	60	15.6	94	nnw.			6		3		nw.			high	w.	clear.
S. S. Oceanic, Hong Kong, China*	29.71	754.6	84	28.9	68	e.			6		8		e.					squally
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 38° 27′, W. 74° 25′†	30.13	765.3				sw.			2		3		ssw.	0	0	sm'h		clear.
S. S. City of Columbus, New York, N. Y†	30.06	763.5				sw.			2		0			0	0			clear.
S. S. Seminole, N. 33° 20′, W. 78° 10′†	30.22	767.6	82	27.8	83	ssw.			1		1		s.	0	0	sm'h	ssw.	clear
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, San Francisco, Cal.†	30.07	763.8	58	14.4	87	calm			0		0							clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 23′, W. 120° 20′†	30.00	762.0	56	13.3	93	ssw.			3		10		sw.			sm'h		cloudy.
S. S. Dakota, San Francisco, Cal. *†	30.00	762.0	54	12.2	79	calm			0		0							clear.
S. S. Victoria, N. 39° 38′, W. 124° 04′†	30.01	762.2	54	12.2	86	nw.			6		0			0	0	light	nw.	fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	30.01	762.2	55	12.8	87	calm			0		8			0	0			misty.
S. S. City of New York, N. 17° 41′, W. 159° 15′†	30.11	764.8	77	25.0	77	ene.			3		0			0	0	sm'h		clear.
S. S. City of Pekin, N. 43° 08′ E. 158° 28′†	30.03	762.7	53	11.7	100	ene.			4		10		ene.	0	0	light	ene.	overcast.
S. S. City of Rio de Janeiro, N. 24° 36′, W. 112° 23′*†	30.22	767.6	67	19.4	79	n.			2		5		n.	0	0	light	nw.	gloomy
S. S. City of Sydney, Sydney, N. S. W.†	30.20	767.1	59	15.0	70	wsw.			4		5		w.	0	0	sm'h		cloudy.
S. S. City of Tokio, N. 43° 30′, W. 172° 48′†	30.00	762.0	58	14.4	70	ssw.			9		10		ssw.	16 h'r	16 h'r	mod.	sw.	foggy.
S. S. Colon, Aspinwall, Panama†	30.01	762.2	78	25.6		sw.			2		10		e.	2 h'r	2 h'r	mod.		cloudy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
Pacific Mail Steamship Company.—Continued.																		
S. S. Colima, Panama, Panama†	29.93	760.2	77	25.0	91	wnw.			2		8		ne.	0.07	1.8			cloudy.
S. S. Grenada, N. 21° 46′, W. 106° 18′†	29.97	761.2	81	27.2	100	nw.			1		8		w.	0	0	light	nw.	clear.
S.S. Zealandia, N. 36° 53′, W. 125° 58′	30.16	766.1	60	15.6	82	nnw.			5		8		nw.			high	nw.	fine.
Quebec S. S. Company.																		
S. S. Muriel, St. Lucia. W. I.	29.94	760.5	81	27.2		ene.			3		10			0	0	sm'h		overcast.
S. S. Bermuda, N. 35° 35′ W. 69° 44′†	30.17	766.3	80	26.7		ssw.			3		9		ssw	2 h'r	2 h'r	g'tl	sw.	gloomy.
Red Star Line.																		
S. S. Belgenland, Antwerp, Belgium†	29.49	749.0	65	18.3	78	sw.			2		5?		sw.	2 h'r	2 h'r			cloudy.?
S. S. Nederland, N. 40° 26′, W. 63° 50′†	29.98	761.5	73	22.8	95	wnw.			4		10		wnw.	0	0	mod.	wnw.	fair.
S. S. Rhynland, N. 41° 10′, W. 48° 24′	30.01	762.2	71	21.7	85	sw.			5		8		sw,	0.4	10.	mod.	sw.	squally.
S. S. Switzerland, N. 50° 32′, W 1° 10′†	29.84	757 9				s.			5		5		s.	2 h'r	2 h'r	mod.	s.	fair.
S. S. Vaderland, Antwerp, Belgium	29.61	752.1	59	15.0	88	ssw.			2		8		ssw.	4 h'r	4 h'r			squally.
Rotterdam Line.																		
S. S. P. Caland, N. 50° 40′ W. 2° 26′	29.78	756.4	65.7	18.7	77	ssw.			6	9 ck	0	sw				sm'h	ssw.	fair.
S. S. Schiedam, N. 49° 17′, W. 13° 34′*	29.65	753.1	59.4	15.2	80	se.			5		9		wsw.	3 h'r	3 h'r	r'gh	se.	raining.
S. S. W. A. Scholten, N. 44° 32′, W. 41° 03′	29.87	758.7	66.9	19.4	90	ssw.			3		10		sw.	0	0	long	wsw.	fair.
State Line.																		
S. S. State of Florida, N. 55° 16′, W. 7° 46′	29.49	749.0	65	18.3		sw.			3		3		sw.	shr's	shr's	sm'h		clear.
S. S. State of Georgia, N. 40° 33′, W. 50° 51′†	29.91	759.7	64	17.8		wsw.			4		10		wsw.	6 h'r	6 h'r	sm'h		rainy.
Thingvalla Line.																		
S. S. Thingvalla, Copenhagen, Denmark†	29.91	759.7	68.9	20.5		ssw.			2		5?		ssw.	0	0			clear ?
White Star Line.																		
S. S. Celtic, N. 43° 12′ W. 46° 23′†	29.98	761.5	66	18.9	89	s.			3		10		sw.	0	0	sm'h		hazy.
Wilson Line.																		
S. S. Romano, N. 46° 35′, W. 20° 08′	29.57	751.1	66	18.9		w.			5		6		w.	0	0	mod.	w.	cloudy.
Winsor Line.																		
S. S. Catherine Whiting, Delaware Bay, Del.†	30.06	763.5	78	25.6		sw.					0			0	0			clear.
Miscellaneous.																		
Schr. Ajax, Indianola, Texas†	30.12	765.0				calm			0		8		s.	0	0			hazy.
Bk. Alpha, New York, N. Y†	29.97	761.2	78	25.6		sw.			1		0			0	0			clear.
Schr. Annie Lewis, Aransas Pass, Texas†	30.16	766.1	83	28.3		se.			2		5?		se.	0	0	long	se.	cloudy.?
Bk. Anna Thorman, S. 37° 27′, W. 1° 56′	30.07	763.7	54.3	12.4	75	sw.			7		3 k		sw.	0	0	long	sw.	misty.
S. S. Antonio Lopez, Cadiz, Spain	30.21	767.3	70	21.1	79	wnw.			4		0			0	0			clear.
Bk. Argonaut, N. 58° 48′, W. 10° 41′*†	29.53	750.0	60.3	15.7		sw.			1		7		se.	2 h'r	2 h'r	mod.	se.	cloudy.
Schr. Asa Eldridge, Havana, Cuba, W. I.†	30.19	766.8				ssw.			1		1		e.	½ h'r	½ h'r			fair.
Bk. Bergenseren, N. 47° 16′ W. 64° 00′†	29.83	757.7				nnw.			2		1		n.	0	0	sm'h	sw.	clear.
S. S. Burswell, N. 36° 51′, W. 74° 34′*†	30.14	765.5	77	25.0		sse.			2		1		calm	0	0	sm'h		very fine.
Bk. Cato, N. 55° 19′, W. 17° 25′*†	29.88	758.9				wnw.			3		2		nw.	0	0	sm'h	nw.	fair.
Bk. Celestina, S. 33° 07′ W. 44° 45′*†	30.25	768.3				sse.			3		10		s.	0	0	long	ne.	cloudy.
Schr. C. R. Flint, Cedar Keys. Florida†	30.36	771.1	80	26.7		wnw.			1		8		nw.	sh'rs	sh'rs			sprinkling.
S. Cornelius, N. 39° 25′, W. 68° 20′*†	30.31	769.9	74	23.3		sw.			4		2			0	0	sm'h	sw.	clear.
Schr. Edith R. Seward, N. 17° 58′, W. 66° 40′*†	30.17	766.3	83	28.3		ene.			1		2		calm	0	0	sm'h		clear.
S. E. J. Spicer, N. 40° 24′, W. 73° 27′†	30.05	763.3				sw.			2		5		w.	0	0	sm'h		
Bk. E. L. Fettingill, Vancouver Island, B. C†	30.30	769.0				nw.			2		0			0	0			clear.
S Enoch Train, N. 38° 34′, W. 66° 40′*†	30.18	766.6				w.			1		2			0	0	sm'h		clear.
Bk. Essex, S. 35° 13′, W. 10° 00′*†	30.21	767.3	61	16.1		wsw.			2		6		nw.	½h'r	½h'r	light	w.	cloudy.
Bk. Freya, N. 40° 15′, W. 60° 12′						w.			4		2		wnw.	0	0	sm'h		hazy.
S. Grecian, Hong Kong, China*†	29.86	758.4	84	28.9		e.			2		1		ese.	0	0			clear.
Bk Hattie G. McFarland, N. 40° 50′, W. 68° 55′*†	30.05	763.3	56	13.3		s.			3					0	0	sm'h	s.	foggy.
S. Hedwig, N. 37° 21′, E. 10° 59′	30.11	764.7	77.4	25.2	76	wnw.			6		2		wnw.	0	0	long	wnw.	fine.
Bk. Horace Scudder, N. 34° 28′, W. 63° 25′†	30.31	769.9	70	24.4		wsw.			3		2		w.	½ h'r	½ h'r	sm'h	w.	blue sky.
S. Ivy, N. 14° 00′ W. 124° 37′†	30.19	766.8	74	23.3		ne.			5		8		ne.	0	0	cross	s.	threatening.
Schr. Jennie N. Huddell, Reedy Id., Del. Bay†	30.17	766.3	78	25.6	77	calm			0		0			0	0			clear.
Bk. Johanne, N. 60° 25′, W. 10° 40′*†.	29.47	748.5	60	15.6		se.			2		8?		s.	0	0	mod	sse.	clear.?
Schr. John L. Thomas, Vivorilla Cays, Mosquito Coast*†	30.10	764.5				ene.			2		2		e.	0	0			clear.
Bg. John Wesley, N. 30° 30′ W. 69° 04′†	30.17	766.3				sse.			1		1			0	0	sm'h	se.	clear.
Bk. Joseph A. Ropes, N. 8° 09′, W. 28° 12′*†	30.10	764.5	76	24.4	90	se.			3		10		se.	3 h'r	3 h'r	mod.	se.	cloudy.
Bkt. Josephine, N. 38° 19′ W. 73° 34′†	30.07	763.8	76	24.4	76	ssw.			4		0			0	0	sm'h		hazy.
Bkt. Kryolith, N. 54° 57′, W. 51° 40′*†	29.83	757.7				ene.			4		10					mod.	e.	hazy.
S. S. Lamperts, N. 32° 39′, W. 27° 24′*	29.71	754.6	77.5	25.3	86	wnw.			3		0							blue sky.
Light House Tender, Laurel, Key West, Florida†	30.16	766.1	85	29.4		se.			3		3		se.	2 h'r	2 h'r			fair.
Bk. Liberia, N. 10° 48′, W 19° 46′.*.	30.06	763.5	80	26.7	82	w.			3		6		nw.	0	0			
S. S. Malabar, N. 47° 37′, W. 157° 37′*†	30.17	766.3							2					0	0			
S. Paramita, S. 19° 52′, W. 98° 20′†	29.99	761.7	72	22.2		ne.			3		2		n.	1 h'r	1 h'r	sm'h		clear.
S. S. Ponca, N. 13° 09′, W. 59° 40′†	30.10	764.5	86	30.0		e.			1		1		e.	0	0	light	e.	clear.
S. S. Sunbeam, Odessa, Russia	29.78	756.4	87	30.6	52	sse.			3		0							blue sky.
S. Sovereign of the Sea, N. 8° 12′, W. 28° 19′*†	29.94	760.5	76	24.4	100	sse.			2		9		se.	8 h'r	8 h'r	mod	s.	showery.
Bg. Teneriffe, Cardenas, Cuba. W. I.	30.08	764.0				e.			1									
Bk. Truro, N. 45° 14′, W. 29° 35′*†	29.85	758.2				nw.			5		8		nw.			mod.	wsw.	drizzling.
U. S. F. C. S. S. FishHawk, Fort Delaware, Del. river†	30.22	767.6	79	26.1	90	wsw.			2		3		calm	0	0			clear.
S. S. Victoria J. Peed, Savanilla Bay, U. S. C.						ese.			1		6							
Schr. Viola Reppard, Baltimore, Md†	29.87	758.7	84	28.9		sw.			2		2		sw.	0	0			clear.
Bk Wm. Wilcox, S. 29° 20′, W. 45° 40′*†	30.36	771.1	71	21.7		nne.			3		2		nne.	0	0	mod.	n.	fair.
S. Wm. Woodbury, N. 49° 54′, W. 5° 01′*	29.80	756.9	62	16.7	77	wsw.			2		2		wsw.	0	0	long	wsw.	clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 11, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.15	765.9	77.4	25.2	87	n.			1		1			0	0	very fair	Bouvier.
Algiers			30.16	766.0	78.8	26.0	52	n.			1		0			0	0	clear	Nicolas.
La Calle			30.12	765.1	77.0	25.0	61	sw.			4		1			0	0	pretty fair	Fonfrède.
Tunis			30.10	764.6															Jacques.
Saida			30.19	766.9	94.6	34.8	30	ese.			2		0			0	0	clear	Perès.
Tebessa			30.10	764.5	87.1	30.6	14	nnw.			1		0			0	0	clear	Derché.
Geriville					98.2	36.8	5	ssw.			1		0			0	0	clear	Lonchamp.
Laghouat			30.14	765.6	95.0	35.0	28	n.			2		0			0	0	clear	Abraham.
Biskra			30.12	765.0	92.8	33.8	34	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.72	754.9	29.81	757.2	49.7	9.8	86	n.	13	5.8			2			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.41	747.0	29.94	760.4	73.4	23.0	37	se.			2		5			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.06	738.0	29.79	756.7	71.2	21.8	42	w.	13.6	6.1			8			0.012	0.3		Dr. Wierzbiski.
Eperies	28.96	735.5	29.80	756.8	73.0	22.8	51	nw.			2		10 ns			0	0		Julius Mikolik.
Gratz	28.71	729.1	29.91	759.8	70.2	21.2	74	w.			2		0			0.417	10.6		Andreas Rospini.
Hermannstadt	28.37	720.7	29.74	755.5	70.9	21.6	59	nw.			5		10			0.063	1.6	raining	Prof. A. Gottschling
Kremsmunster, Obs'y	28.58	725.9	29.87	758.7	68.5	20.3	48	nw.			3		5			0.008	0.2	cloudy	The Staff.
Lemberg	28.91	734.2	29.87	758.8	61.7	16.5	85	ne.			2		10			1.224	31.1		Dr. T. Stanecki.
Pola	29.85	758.1	29.95	760.8	82.6	28.1	40	sse.			2		4			0	0		I. R. Hydrographic Office.
Szathmar	29.35	745.4	29.79	756.7	71.6	22.0	66	nw.			2		8			0.646	16.4		Joseph Midlinszay, S. J.
Szegedin	29.50	749.4	29.77	756.2	72.7	22.6	50	w.			1		5			0	0		Karl Stancel.
Trieste	29.88	758.9	29.98	761.5	77.4	25.2	42	calm			0		2			0	0		Royal Academy.
Vienna	29.22	742.3	29.91	759.8	71.2	21.8	40	w.			2		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.50	749.3	29.60	751.8	60.3	15.7	73	se.	10	4.5			3			0	0	blue sky	W. Boswell
Armagh, Observatory	29.34	745.2	29.57	751.1	57.8	14.3	90	nne.	4	1.8			10					gloomy	S. Call.
Bidston, Liverpool Obs'y			29.52	749.8	58.1	14.5	84	ese.	14	6.3			10					raining	John Hartnup.
Bolton, Sharples	29.01	736.8	29.53	750.0	60.9	16.1	63	ese.	3	1.3			10					overcast	Thomas Mackereth, Jun.
Bradford, Yorkshire	29.15	740.4	29.55	750.6	62.8	17.1	58	se.			2		9			0	0	overcast	McLandsborough & Pres-
Bridgetown, Barbadoes	30.09	764.3	30.12	765.0	77.6	25.3	84	ne.			2		8					overcast	Corpl. J. Surgenor, A. H. C.
Cardington			29.53	750.0	59.6	15.3	90	se.			1.0		10					raining	John McLaren.
Chatham, School M. E.	29.43	747.5	29.55	750.6	58.4	14.7	93	s.			2		10			blank	blank	misty	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.18	741.2	29.40	746.7	62.4	16.9	83	sw.			3		9					overcast	The Staff.
Fort Napier, Natal	27.75	704.8	29.96	761.0	71.6	22.0	25	ne.			3		0					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.64	752.8	29.88	758.9	88.0	31.1	72	n.			4		2					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.03	762.7	30.08	764.0	82.5	28.1	70	w.			1		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.36	745.7	29.57	751.1	62.4	16.9	60	ne.			3		7					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.37	746.0	29.54	750.3	57.9	14.4	97	ese.			1		10					raining	The Staff.
Guernsey	29.14	740.1	29.43	747.5	60.0	15.6	94	wsw.			3		10					raining	A. Collenette, F. M. S.
Kew, Observatory	29.50	749.3	29.53	750.0	57.8	14.3	93	e.	11	4.9			10					rain & mist.	The Staff.
Leicester, Museum	29.29	744.0	29.54	750.3	60.0	15.6	69	se.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.02	762.5	80.0	26.7	69	nw.			3		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.16	766.1	30.21	767.3	86.5	30.3	69	se.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.02	737.1	29.53	750.0	55.5	13.1	86	ene.			3		10					raining	Warren Middleton.
Oxford, Radcliffe Obs'y	29.28	743.7	29.51	749.5	56.0	13.3	96	e.			2		10					drizzling	The Staff.
Plymouth	29.35	745.5	29.42	747.3	62.0	16.7	91	sw.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.62	752.3	59.4	15.2	81						2					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.60	751.8	29.66	753.4	85.0	29.4	53	sw.			1		0			blank	blank	blue sky	W. H. Lyne
Sheffield	29.47	743.4	29.54	750.3	62.1	16.7	83	se.			1		10			0.09	2.3	overcast	W. F. Cooper.
Silloth Rectory	29.52	749.8	29.55	750.6	65.3	18.5	67	w.			2		4			0.160	4.1	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.55	750.6	63.0	17.2	59	e.	7	3.1			10					misty	Rev. S. J. Perry.
Stratfield Turgiss	29.21	741.9	29.42	747.3	59.4	15.2	94	sw.			1		10					raining	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.38	746.2	29.39	746.5	65	18.3	83	sw.			4		10					raining	W. Newcombe.
Valencia, Observatory	29.60	751.8	29.63	752.6	60.7	15.9	76	nnw.	21	9.4			5					squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.72	754.9	29.76	755.9	61	16.1	82	se.	13	5.8		2 c	5 s	sw.	sw.	0.035	0.9	clearing	H. J. Cundall, C. E.
Chatham, N. B*	29.65	753.1	29.71	754.6	62	16.7	90	se.	2	0.9			10 s		se.	0.23	5.8	cloudy	G. A. Blair.
Father Point, Quebec*	29.56	750.8	29.58	751.3	55	12.8	96	sw.	3	1.3			10 s		calm	0.03	0.8	threatening.	J. McWilliams.
Fort Garry, Manitoba*	28.69	728.7	29.49	749.0	53	11.7	93	nw.	23	10.3			10 n		nw.	0.270	6.9	raining	James Stewart.
Halifax, N. S*	29.74	755.4	29.87	758.7	55	12.8	100	se.	8	3.6			fg.			0.100	2.5	foggy	A. Allison.
Kingston, Ontario*	29.37	746.0	29.69	754.1	69	20.6	93	sw.	15	6.7		0	0			0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.43	747.5	29.62	752.3	73	22.8	90	w.	12	5.4			10 s		w.	0.45	11.4	threatening.	C. H. McLeod, C. E.
Parry Sound, Ontario*	28.94	735.1	29.60	751.8	66	18.9	78	sw.	17	7.6		2 k	0	sw.		0.01	0.3	fair	Rev. R. Mosley.
Port Dover, Ontario	29.09	738.9	29.75	755.6	69	20.6	95	sw.	12	5.4		5 k	0	sw.		inap.	inap.	fair	H. Morgan.
Port Stanley, Ontario	29.15	740.4	29.77	756.1	66	18.9	84	w.	12	5.4		0	0			0.11	2.8	clear	M. Payne.
Quebec, Quebec*	29.31	744.5	29.62	752.3	65	18.3	93	calm			0	0	2 s		w.	0.08	2.0	hazy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.12	739.6	29.57	751.1	61	16.1	87	calm	0	0		0	0			0.26	6.6	clear	W. H. McIntyre.
Saugeen, Ontario*	28.95	735.3	29.63	752.6	65	18.3	90	sw.	39	17.4		0	0			0.22	5.6	clear	
St. Andrews, N. B	29.69	754.1	29.75	755.6	56	13.3	92	se.	5	2.2			fg.			0	0	foggy	
Sydney, C. B*	29.87	758.7	29.93	760.2	61	16.1	62	s.	12	5.4		3 ck	0			0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.34	745.2	29.71	754.6	68	20.0	87	sw.	10	4.5		0	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.76	755.9	29.82	757.4	57	13.9	96	s.	7	3.1			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
Mount Forest	28.34	719.8	29.76	755.9	66.0	18.9	78	w.			5	0	0			0	0	clear	Wm. Wylie.
St. Johns, Newfoundland	29.95	760.7	30.20	767.1	48	8.9	92	w.	4	1.8		0	0			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.02	762.5	30.05	763.3	63.0	17.2	82	w.	9.7	4.3		0	6 ks			0	0	fine	John Duthie.
Cape Town, O. G. H. Obs'y	30.16	766.1	30.20	767.1	60.2	15.7	73	wnw.	11	4.9		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow													10 n			0	0	covered	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.92	760.0	29.95	760.6	71.4	21.9	95	e.	10.7	4.8									M. Marc Decheyrens, S.J.
DANISH.																			
Copenhagen	29.60	751.9	29.65	753.1	65.8	18.8	55	wnw.	13	6			5						Oversergent Fischer.
Fanöe	29.65	753.0	29.67	753.5	63.5	17.5	74	wsw.			4		3						Overloerer Lauridsen
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.77	756.1	29.81	757.2	49.3	9.6	78	e.			6		2						A. O. Thorlacius.
Thorshavn	29.63	752.5	29.66	753.4	56.1	13.4	89	calm	0	0			10						Overloerer Bergh.
Vestervig	29.54	750.3	29.63	752.6	62.6	17.0	76	w.			4		4						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.35	745.6	30.02	762.4	77.0	25	70	s.			1	2 c	k		sw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.09	738.9	29.64	752.9	67.6	19.8	91	s.			4		kn			0.28	7.		M. Nicot, Director.
Arras, Engineer School	29.34	745.1	29.58	751.4	64.8	18.2	88	ssw.			1		kn		ne.	0.04	1.		M. Fénéon, Command't.
Avignon, Normal School	29.94	760.4	30.02	762.4	77.7	25.4	58	nw.			1		5		nw.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.29	744.0	29.84	757.9	62.1	16.7	87	s.			1		10		w.	0.059	1.5	covered	M. Saillard, Director.
Beauvais, Normal School	29.39	746.6	29.65	753.1	70.5	21.4	73	s.			2		8		wsw.	0.087	2.2	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.99	736.4	29.86	758.4	66.9	19.4	36	s.			2		10 kn		s.	0.370	9.4	covered	M. Gobin, Director.
Bordeaux, Observatory	29.66	753.4	29.91	759.8	74.1	23.4	50	wsw.			1		10			0.008	0.2	raining	M. Rayet, Director.
Bourges, Normal School	29.26	743.3	29.80	756.9	68.0	20	72	ssw.			4		k		ssw.	0.067	1.7		M. Malet, Director.
Brest, Naval Observatory	29.34	745.3	29.59	751.5	62.6	17.0	92	sw.			3		10		sw.	0.591	15.0	raining	M. de Kermaree, Dir.
Caen, Normal School	29.56	750.8	29.63	752.6	66.4	19.1	82	s.			3		8		s.	0.12	3.	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.39	746.5	29.70	754.3	69.8	21.0	73	ssw.			4		10	w.	w.	0.063	1.6	covered	M. Judot, Director.
Charleville, Normal School	29.20	741.7	29.70	754.4	61.5	16.4	77	sw.			3		10			0.16	4.	raining	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.60	726.4	29.89	759.2	74.3	23.5	49	sw.			3		8		sw.	0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.09	738.9	29.92	759.9	69.1	20.6	68	s.			1		7		sw.	0.12	3.		M. de Villemontée, Dir.
Commercy, Normal School	28.94	735.1	29.74	755.5	61.0	16.1	58	sw.			1		10 kn	sw.	sw.	0.260	6.6	light rain	Dr. Coulet, Director.
Gap, Normal School	27.55	699.8	30.04	763.1	65.8	18.8	57	w.			3	1	9 k		nw.	0	0		M. Jeanglrard, Director.
Gréasque, du Rhone	28.93	734.7	30.00	761.9	80.8	27.1	32	nw.			2		4		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.25	743.0	30.00	762.1	65.5	18.6	81	ne.			1		10 kn					raining	M. Ablard, Director.
Guéret, Normal School	28.35	720.1	29.89	759.1	64.4	18	80	sw.			3		8 n		sw.	0.343	8.7	light rain	M. Rivoire, Director.
Lamballe, Normal School	29.30	744.3	29.57	751.0	65.5	18.6	75	sw.			4		5		sw.	0.138	3.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.41	747.1	29.95	760.7	85.1	29.5	58	w.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.56	750.7	29.66	753.3	64.8	18.2	69	sw.			3		10			0.669	17.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.94	735.1	29.97	761.2	67.3	19.6	62	sse.			2		10		sw.	0.008	0.2	covered	M. André, Director.
Mans, Normal School	29.35	745.5	29.65	753.0	67.1	19.5	76	w.			4		5		sw.	0.24	6.	cloudy	M. Piboen, Director.
Marseille, Observatory	29.77	756.1	30.03	762.8	75.9	24.4	49	wsw.			0.1		5		w.	0	0		M. Stephan, Director.
Montlouis	24.90	632.5	29.74	755.5	66.2	19.0	45	wsw.	13.0	5.8			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.87	758.8	30.00	761.9	76.3	24.6	56	s.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.06	738.0	29.84	757.9	60.8	16.0	87	s.			1		kn		sw.	0.220	5.6		M. Hasse, Director
Nantes, Observatory	29.59	751.5	29.75	755.6	65.1	18.4	87	ssw.			2–4		10 n		sw.	0.303	7.7	rainy	M. Larocque, Director.
Perpignan, Observatory	29.85	758.3	29.96	761.0	81.0	27.2	41	ne.	9.4	4.2			0			0.059	1.5		Dr. Fines, Director.
Pic-du-Midi, Summit	21.37	542.7			48.2	9.0		sw.			1		5		sw.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.93	734.8	29.96	760.9	70.9	21.6	53	nw.			1		5			0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.13	638.2			48.0	8.9	100	wsw.			6		10			0.083	2.1	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.85	758.3	29.89	759.1	65.5	18.6	94	sw.			4		10			1.06	27.	raining	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.57	751.0	29.78	756.4	64.0	17.8	90	ssw.			8		8		n.	0.520	13.2	very cloudy	M. Mouillot, Director.
Rodez, Normal School	27.92	705.2	30.00	761.9	72.1	22.3	58	w.			1		5			0	0	fair	M. Seger, Director.
Rouen, Normal School	29.53	750.1	29.58	751.3	69.8	21	75	ssw.			1		5	s.		0.181	4.6	cloudy	M. Brotier.
Saint Maur, Observatory	29.53	750.0	29.69	754.2	66.6	19.2	82	ssw.			3		10		sw.	0.130	3.3		M. Renou, Director.
Toulouse, Observatory	29.31	744.5	30.04	762.9	82.9	28.3	45	ne.			1		1		w.	0	0	clear	M. Baillaud, Director.
Tours	29.58	751.2	29.75	755.7	69.1	20.6	85	sw.			4		10	w.	sw.	0.071	1.8	rainy	M. de Tastes.
Versailles, Observatory	29.19	741.4	29.68	753.9	67.6	19.8	80	sw.			3					0.217	5.5		Dr. A. Berigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.41	746.9	29.70	754.3	66.2	19.0	86	ssw.			3		9		sw.	0.154	3.9		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.08	738.5	29.93	760.1	64.8	18.2	60	w.			2	0	9 k;s		w.	0.134	3.4		Prof. Dr. Hoh.
Berlin	29.72	754.8	29.89	759.2	69.8	21.0	44	w.			5		7			0.004	0.1		Prof. Dr. Arndt.
Breslau	29.34	745.2	29.87	758.6	69.6	20.9	34	nw.			2		0			0	0		Royal University Obs'y.
Carlsruhe	29.43	747.6	29.86	758.5	62.2	16.8	85	se.			1		10	nw.		0.394	10.0	raining	Albert Senz.
Cassel	29.06	738.0	29.77	756.1	65.5	18.6	55	s.			6		8	sw.		0.228	5.8		Dr. H. Möhl.
Frankfort-on-the-Main	29.47	748.4	29.82	757.4	65.5	18.6	69	ssw.			2		10			0.390	9.9		Physical Society.
Friedrichshafen	28.53	724.6	29.93	760.1	65.3	18.5	71	wsw.			2		10	w.		0.220	5.6		Wilhelm, Chief Tel.
Hamburg	29.07	753.5	29.76	755.9	66.0	18.9	54	sw.			4		10			0.142	3.6	squally	E. Preller.
Kiel	29.69	754.2	29.71	754.6	63.0	17.2	70	wnw.			5		7			0.512	13.0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.43	747.5	29.84	757.8	72.0	22.2	43	w.			4		5	w.		0.028	0.7		H. Leppig, Asst.
Magdeburg	29.61	752.0	29.79	756.6	70.7	21.5	45	sw.			2	c	4k		w.	0	0		Dr. Assmann.
Memel	29.68	753.8	29.72	755.0	64.6	18.1	75	w.			6	c	5 k						Isserman.
Munich	28.13	714.6	29.99	761.8	66.0	18.9	56	nw.			1		5	sw.		0.008	0.2		Dr. C. Lang.
Neufahrwasser	29.73	755.2	29.75	755.6	70.9	21.6	45	w.			2		5	w.		0	0		A. Lottes.
Neustadt, Palatinate	29.32	744.8	29.85	758.2	60.8	16.0	79	s.			4		10			0.138	3.5		Dicknether.
Stuttgart	28.93	734.9	29.80	757.0	64.4	18.0	80	w.			1		9	w.		0.102	2.6		Prof. Dr. Schoder.
Wustrow	29.72	754.8	29.74	755.4	65.5	18.6	65	w.			4	0	5 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.28	743.6			96.6	35.9		s.			2.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.49	749.1	29.54	750.3	85.8	29.9	80	wsw.	28.0	12.5			8		w.	0.75	19.0	gloomy	
Deesa	28.95	735.4	29.42	747.2	80.5	26.9	89	ssw.	10 6	4.7			10		sw.	0.58	14.7	overcast	
Bombay	29.62	752.4	29.66	753.4	77.2	25.1	96	wsw.	24.0	10.7			10		wsw.	0.68	17.3	raining	
Poona, Yarrowda	27.81	706.4	29.67	753.6	73.2	22.9	88	wsw.	19.0	8.5			10		w.	0.32	8.1	drizzling	
Trichinopoly	29.53	750.1	29.81	757.1	90.3	32.4	44	wsw.	5.0	2.2			10			0	0	overcast	
Bellary	28.26	717.7	29.72	754.8	81.0	27.2	60	w.	12.9	5.8			10	sw.		0	0	gloomy	
Belgaum	27.23	691.7	29.80	756.9	68.0	20.3	93	wsw.	1.9	0.8			9	e.	sw.	0.79	20.1	showery	
Lahore	28.76	730.5	29.49	749.0	87.0	30.0	72	ne.	6.4	2.9			10	ne.	e.	0.27	6.9	overcast	
Roorkee	28.55	725.2	29.42	747.2	91.2	32.9	68	e.	1.7	0.8			6			0.07	1.8		
Agra	28.85	732.8	29.40	746.8	84.3	29.1	81	e.	8.2	3.7			5		e.	0.36	9.1	d. clouds	
Nagpur	28.52	724.3	29.55	750.6	78.7	25.9	86	w.	5.5	2.5			10		w.	0.38	9.6	drizzling	
Jubbulpore	28.16	715.2	29.50	749.2	79.2	26.2	82	sw.	8.0	3.6			10			3.78	96.0	overcast	
Lucknow	29.04	737.7	29.41	747.0	89.1	31.7	68	e.	6.0	2.7			4		nnw.	0.10	2.5		
Allahabad	29.13	740.0	29.44	747.9	79.6	26.4	94	se.	3.9	1.7			10			0.45	11.4	drizzling	
Patna	29.34	745.3	29.52	749.9	85.0	29.4	83	se.	10.4	4.6			6	se.	e.	0.11	2.8	d. clouds	
Hazaribagh	27.49	698.3	29.48	748.9	76.8	24.9	89	sse.	6.0	2.7			10			1.13	28.7	showery	
Cuttack	29.43	747.5	29.51	749.6	81.0	27.2	84	sw.	1.5	0.7			10			0.03	0.8	drizzling	
Calcutta, Allpore	29.48	748.8	29.50	749.3	80.0	20.7	94	se.	6.0	2.7			10			1.85	47.0	drizzling	
Dhubri	29.45	747.9	29.56	750.9	82.4	28.0	87	calm	6.2	2.8			9	e.		0.02	0.5	d. clouds	
Chittagong	29.43	747.6	29.52	749.8	89.7	32.1	67	s.	5.9	2.6			8			0	0	d. clouds	
Sibsagar	29.19	741.5	29.52	749.8	88.9	31.6	74	ne.	1.6	0.7			0			0	0	blue sky	
Jeypore	27.96	710.2	29.38	746.2	81.4	27.4	88	ne.	4.3	1.9			9		ne.	0.38	9.6	d. clouds	
Zanzibar, Africa	30.10	764.5			82.2	27.9	52	s.	6.9	3.1			4		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.56	750.8	29.95	760.7	76.1	24.5	43	s.	1.8	0.8			2			0	0		Prof. Giovanni Clodig.
Milan	29.45	748.1	29.95	760.7	78.4	25.8	40	sw.	4.3	1.9			4	w.		0	0		Prof. Schiaparelli.
Padua	29.89	759.1	29.99	761.8	76.8	24.9	42	se.	3.1	1.4			1	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.04	737.7	29.91	759.7	74.8	23.8	37	n.	3.1	1.4			3	e.		0	0		Prof. P. F. Denza.
Genoa	29.81	757.1	29.99	761.8	72.3	22.4	68	se.	14.3	6.4			2	w.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.06	712.8	29.89	759.3	73.9	23.3	53	ene.			6		2			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.91	759.6	29.95	760.8	73.9	23.3	55	e.	11.2	5.0			1			0	0		Prof. Luigi Guidi.
Florence	29.76	755.9	30.00	762.1	77.9	25.5	44	wsw.			4		7	wsw.		0	0		Prof. Costantino Pitter
Leghorn	29.89	759.2	29.97	761.3	76.8	24.9	55	w.	19.2	8.6			3	w.		0	0		Prof. P. Monte.
Rome	29.82	757.5	29.99	761.8	82.4	28.0	24	sw.	9.4	4.2			0			0	0		Prof. P. S. Ferrari
Lecce	29.66	753.4	29.90	759.5	83.5	28.6	40	nne.	13.0	5.8			0			0	0		Prof. C. de Giorgi
Cosenza	29.12	739.6	29.97	761.2	79.9	26.6	71	ssw.	3.1	1.4			0			0	0		Prof. D. Conti.
Cagliari	29.83	757.7	30.02	762.4	79.7	26.5	45	s.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.81	757.2	30.05	763.3	76.1	24.5	52	ne.	10.5	4.7			1			0	0		Prof. G. Ciacciatore.
Syracuse	29.94	760.5	29.98	761.6	77.9	25.5	55	ne.	7.4	3.3			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.47	748.4	29.97	761.3	78.6	25.9	56	sw.	8.7	3.9			1	n.		0	0		Prof. T. Brioschi.
Stelvio	22.20	564.0			46.4	8.0	59	w.			2		10			0	0	covered	Prof. P. F. Denza.
Valdobbia	22.28	565.8			46.2	7.9	71	n.			1		10			0.024	0.6	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	30.02	762.5	30.03	762.7	58.5	14.7	94	e.	6.6	2.9			10			0	0	covered	
Hiroshima, I. M. Obs'y					69.6	20.8	77	nne.	7.4	3.3		0	1 ck;s			0.245	6.2	clear	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.82	757.4	29.99	761.7	70.1	21.2	75	nw.	4.3	1.9		0	4 s;ck			0	0	fair	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.80	757.0	30.00	762.0	70.7	21.5	90	n.	6.9	3.1		0	8 s			0.120	3.1	cloudy	S. Takehayashi.
Nemuro	30.01	762.2	30.07	763.8	52.5	11.4	89	calm	0	0		0	9			0	0	cloudy	
Niigata	29.95	760.7	29.99	761.7	68.5	20.3	92	e.	0.8	0.4		0	8 ck		w.	0.260	6.6	overcast	M. Morita.
Nobiru	29.99	761.7	30.00	762.1	63.5	17.5	94	ne.	5.3	2.4			10 n			0.080	2.0	rainy	H. Midzushina.
Osaka	29.97	761.2	29.99	761.7	71.9	22.2	73	w.	5.2	2.3			10 s;ks			0.284	7.2	cloudy	
Sapporo					62.2	16.8	87	se.	1.8	0.8			10			0	0	covered	
Tokei Obs'y, Yeddo	29.88	758.9	29.95	760.7	67.5	19.7	95	e.	14.1	6.3			10 n			0.207	5.3	light rain	The Staff.
Wakayama	29.91	759.7	29.96	761.0	74.7	23.7	78	nne.	3.3	1.5		0	3		n.	0	0	fair	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	30.03	762.7	30.22	767.6	68.5	20.3	84	se.	10.0	4.5			10 n			0.17	4.3	overcast	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.76	603.5	29.98	761.5	59.2	15.1	91	sw.					10 kn			0.093	2.3	cloudy	Prof. Vicente Fernandez.
Leon	24.35	618.5	29.99	761.7	60.8	16.0	81	wnw.			1	8 c	0	sw.		inap.	inap.	cloudy	Prof. M. Leal.
Mazatlan	29.72	754.8	29.97	761.3	78.0	25.6	86	e.	0.9	0.4		10 cs	0	e.		0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.6	30.21	767.2	55.8	13.2	86	calm	0	0			10 kn			0.213	5.4	covered	The Staff.
Morelia	24.34	618.3	30.49	774.3	60.6	15.9	54	s.			2	4	4	s.	s.	0.209	5.3	cloudy	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Tabellon, Aguascalientes	24.02	609.9	30.00	762.0	61.3	16.3	73	calm			0	3 c	4 ks	se.	se.	0.140	3.7	cloudy	M. V. de Leon, M. E
Puebla, Catholic Institute	23.46	595.8	30.18	766.6	56.3	13.5	75	calm	0	0		0	0		sse.	0	0	cloudy	Prof. P. Spina.
San Luis Potosi	24.30	617.4	30.27	768.7	66.6?	17.3?	74	se.				2	5	w.	e.	0	0	cloudy	G. Barroeta, M. D
Zacatecas	22.64	575.0	30.24	768.0	58.0	14.4	71	e.	5.6	2.5		4 cs	0			0	0	½ cloudy	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	29.66	753.3	29.66	753.3	64.0	17.8		ese.			4					0.177	4.5		
Groningen	29.65	753.2	29.71	754.6	64.8	18.2		sw.			2					0.004	0.1		
Helder	29.68	753.8	29.68	753.8	64.0	17.8		ssw.			3					1.047	26.6		
Hellevoetsluis	29.69	754.0	29.69	754.0	59.0	15.0	91	ese.			1					0.138	3.5		
Utrecht	29.65	753.2	29.70	754.4	61.0	16.1	79	ssw.			2		8			0.169	4.3	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.50	749.2	29.56	750.8	60.8	16.0	71	w.	13	6			5			0.130	3.3		
Brono	29.47	748.4	29.50	749.4	70.2	21.2	58	ne.	7	3			7			blank	blank		
Christiania	29.32	744.6	29.46	748.2	61.5	16.4	77	sw.	4	2			10			0.465	11.8	raining	
Gjæsvær	29.76	750.0	29.79	756.6	70.5	21.4		calm			0		0						
Lodingen	29.57	751.1	29.62	752.3	72.1	22.3	31	nne.			6		3			0	0		
PORTUGUESE.																			
Angra, Azores					71.6	22.0	86	nw.	8.1	3.6			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.16	740.7	30.13	765.2	77.9	25.5	46	wnw.	4.3	1.9			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.20	767.1	30.29	769.3	71.8	22.1	72	sw.	6.9	3.1			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.87	758.8	30.23	767.8	68.2	20.1	81	sw.	15.4	6.9			8			0	0		The Staff.
Ponta Delgada, Azores	30.24	768.2	30.31	769.9	78.1	25.6	67	wnw.	9.4	4.2			4			0.098	2.5		
Saint Paul de Loando	29.89	759.2	30.10	764.4	70.5	21.4	78	n.	0.7	0.3			9			0	0		
Serra da Estrella	25.45	646.3	30.14	765.6	54.5	12.5	89	w.	21.0	9.4			9			0.012	0.3	foggy	
RUSSIAN.																			
Akmolinski	28.18	715.7	29.21	741.8	63.5	17.5	90	sw.	22	10		0	7 kn			0.020	0.5		Major K. Lasarew.
Archangel	29.82	757.5	29.84	758.0	70.3	21.3	41	ese.	9	4			10			0	0	light clouds	Capt. Sseliwerstow.
Astrakhan	29.87	758.7	29.79	756.6	86.2	30.1	54	ese.	7	3		0	4 k			0	0		Capt. Wisganow.
Barnaul	28.97	735.7	29.43	747.6	73.4	23.0	52	nw.	4	2			2			0.189	4.8		Meteorological Obs'y.
Dorpat	29.35	745.4	29.58	751.3	68.7	20.4	63	sw.	11	5		0	7 k			0	0		Observatory.
Ekaterinburg	28.75	730.3	29.69	754.2	56.3	13.5	71	n.	13	6			10			0	0		Meteorological Obs'y.
Irkutsk	28.08	713.2	29.62	752.4	76.8	24.9	67	ese.	2	1		cs	3 s			0	0		
Kasan	29.59	751.6	29.84	758.0	78.6	25.9	53	calm	0	0		0	3 k			0	0		Observatory.
Kertch	29.54	750.2	29.56	750.7	86.5	30.3	59	sse.	4	2		0	0			0	0		Lagorio & Sastyrez.
Kieff	28.86	733.1	29.45	748.0	83.1	28.4	55	ssw.	31	14		3cs;ck	0			0.063	1.6		Observatory.
Lugan	29.44	747.7	29.63	752.5	92.7	33.7	46	se.	13	6			6			blank	blank		Meteorological Obs'y
Moscow	29.21	742.0	29.65	753.2	76.3	24.6	71	se.	7.8	3.5			9 ks						Meteorological Obs'y.
Nikolaiev	29.59	751.5	29.66	753.3	94.1	34.5	42	sw.	4	2		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Peikin, China	29.77	750.1	29.91	759.7	70.2	21.2	97	calm	0	0			10 n			1.508	38.3	thun'rst'rm	Physical Observatory
St. Petersburg	29.55	750.5	29.56	750.9	72.3	22.4	49	wsw.	9	4		ck	5 ks			0.122	3.1		Central Physical Obs'y
Semipalatinsk	28.79	731.2	29.39	746.5	84.9	29.4	28	nw.	18	8			4			0	0		Major Lasarew.
Tashkend, Laboratory	28.20	716.3	29.65	753.2	89.6	32.0	44	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.37	720.6	29.68	753.9	93.7	34.3	32	s.	2	1		0	1 k			0	0		Physical Observatory
Vladivostock	29.98	761.5	30.05	763.2	60.1	15.6	92	se.	9	4			10 n						
Warsaw	29.34	745.3	29.74	755.5	73.2	22.9	42	nw.	9	4			10 ks						Astronomical Obs'y
Wilna	29.29	743.9	29.69	754.1	69.8	21.0	62	w.	2	1			10			0	0	hv'y clouds	Berg, Assistant.
Yeniseisk	29.25	742.9	29.52	749.7	77.7	25.4	90	s.	4	2			8			0.098	2.5	raining	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.84	757.9	29.94	760.5	81.0	27.2	52	sw.	4.5	2.0			0					clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.91	759.8	29.97	761.3	85.6	29.8	41	nw.	2.2	1.0		3	1	w.		0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.16	689.9	30.03	762.7	68.4	20.2	61	sw.	8.1	3.6			7			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.89	708.5	30.02	762.5	79.9	26.6	37	sw.	13.0	5.8		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director
Santiago, Met. Obs'y	29.13	739.8	30.01	762.3	63.1	17.3	98	sw.	11.9	5.3			10			0.567	14.4	light rain	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I																			Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.1	29.90	759.5	77.3	25.2	86	s.	17.6	7.9			10 n		s.	0.374	9.5	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.02	762.5	30.12	765.0	78.6	25.9	63	nw.	7.7	3.4		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.11	764.7	30.20	767.0	83.5	28.6	83	e.	11.2	5.0		0	3 kn		e.	0	0	clear	Manuel Muese.
Tuguegarao, Philippine Id's	29.74	755.4	29.87	758.7	80.5	26.9	84	s.	4.9	2.2		6 cs	4 k	e.		0.05	1.3	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.54	750.2	29.58	751.2	66.9	19.4	79	ne.			6		10			0.205	5.2		
Umea	29.29	743.9	29.34	745.2	52.5	11.4	93	ne.			7		10			0.520	13.2		
Hernosand	29.19	741.4	29.24	742.7	51.8	11.0	92	ne.			8		10			0.370	9.4		
Stockholm	29.16	740.6	29.34	745.1	56.5	13.6	92	wsw.			4		10			2.622	66.6		
Visby	29.41	747.0	29.47	748.5	60.1	15.6	85	wsw.			6		10			2.386	60.6		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Sub-series.																			
Upsala	29.21	741.9	29.30	744.1	53.1	11.7	97	w.	4.9	2.2			10		wnw.	0.087	2.2	raining	S. G. Fineman.
Swiss.																			
Geneva	28.59	726.2	29.99	761.7	64.2	17.9	71	wsw.			5					0.055	1.4	covered	The Observatory
Scottish.																			
Monach Lt			29.63	752.6	63	17.2	94	calm			0	0	0			0	0	clear	J. Youngclause.
North Unst			29.62	752.3				se.			3	4	6	se.					
Turkish.																			
Constantinople			29.71	754.6	85.3	29.6	35	n.	8	3.5			0			0	0		The Observatory.
Valona			30.06	763.5	81.0	27.2		nw.			2		2			blank	blank	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.67	753.7	86.4	30.2	62	sw.			2	0	1 s		sw.	0	0		Prof. C. V. A. van Dyck
United States.																			
Albany, New York	29.68	753.9	29.76	755.9	79	26.1	74	s.	6	2.7		2 c	5 ks	w.	w.	0.02	0.5	fair	J. O. Barnes.
Alpena, Michigan	28.97	735.8	29.61	752.1	66	18.9	63	w.	13	5.8		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.09	637.3	29.83	757.7	53	11.7	38	ne.	5	2.2		0	0			0	0	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	27.38	695.4	30.11	764.8	48	8.9	66	sw.	6	2.7		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.93	734.8	30.08	764.0	80.0	26.7	74	w.	7	3.1		9 k	0			0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.87	758.7	29.88	758.9	71	21.7	87	s.	11	4.9		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.90	759.4	30.10	764.5	74.0	23.3	88	s.	2	0.9		6 c	0			0	0	fair	John Healy.
Baltimore, Maryland	29.85	758.2	29.90	759.4	80	26.7	69	sw.	7	3.1		7cs;ck	0	w.		0	0	fair	Robert Seyboth.
Barnegat, New Jersey	29.85	758.2	29.87	758.7	78.7	25.9	80	sw.	12	5.4		3 ck	0	w.		0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.32	719.3	29.86	758.4	56	13.3	47	nw.	2	0.9		0	2 k		calm	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.39	695.7	30.10	764.5	49	9.4	52	w.	4	1.8		0	1 s			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	29.49	749.0	29.51	749.5	44.0	6.7		s.	12	5.4			fg.			0.05	1.3	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.10	713.7	29.82	757.4	53	11.7	69	w.	10	4.5		3 k	0	w.		0.01	0.3	fair	Cyrus Cramer.
Block Island, Rhode Island	29.83	757.7	29.86	758.4	70.0	21.1	84	sw.	16	7.2		0	hz.			0	0	clear	J. T. Elker.
Boise City, Idaho	27.38	695.4	30.10	764.5	60	15.6	62	w.	4	1.8		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.64	752.8	29.79	756.7	78.0	25.6	71	sw.	7	3.1		5 c	hz.	w.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.95	760.7	29.99	761.7	78.3	25.7	90	s.	9	4.0		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.03	737.3	29.76	755 9	69	20.6	85	sw.	19	8.5		0	2 ks		sw.	0.06	1.5	clear	Wm. Flnn.
Buford, Fort, Dakota	27.99	710.9	29.93	760.2	53	11.7	69	w.	13	5.8		3 ck	0	w.		0.05	1.3	clear	A. H. Bell.
Burlington, Vermont	29.40	746.7	29.68	753.9	75.7	24.3	89	s.	7	3.1		2 ck	7 s	w.	w.	0.06	1.5	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.64	752.8	30.03	762.7	76.8	24.9	92	calm	0	0		10 ck	0	w.		0.43	10.9	cloudy	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.16	689.9	29.75	755.6	71	21.7	36	se.			1	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.98	761.5	30.00	762.0	78	25.0	82	sw.	17	7.6		0	hz.			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.88	758.9	29.91	759.7	74.0	23.3	84	s.	14	6.3		0	hz.			0	0	clear	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.11	764.8	30.13	765.3	77	25.0	82	nw.	3	1.3		0	3 k			0.23	5.8	clear	F. W. Mixer.
Champaign, Illinois	29.17	740.9	29.96	761.0	67.7	19.8	75	w.	9	4.0		0	0			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.04	763.0	30.09	764.3	82	27.8	74	sw.	3	1.3		4 k	0	se.		0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.17	740.9	30.00	762.0	79.0	26.1	74	sw.	5	2.2		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.27	743.4	30.07	763.8	77.0	25.0	82	sw.	5	2.2		6 cs	sk.	sw.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.15	613.4	29.84	757.9	47.1	8.4	74	nw.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.19	741.4	29.88	758.9	67.2	19.6	59	w.	12	5.4		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	29.93	760.2	29.95	760.7	75	23.9	84	s.	11	4.9		0	0			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.32	744.7	29.96	761.0	75.8	24.3	85	sw.	4	1.8		6 c	0	w.		0.52	13.2	fair	J. F. Harrold.
Cleveland, Ohio	29.14	740.1	29.86	758.4	70.8	21.6	76	sw.	13	5.8		0	0			0.17	4.3	clear	J. B. Newlin.
Coleman City, Texas	28.24	717.3	30.00	762.0	73	22.8	90	se.	4	1.8			10 s			0	0	cloudy	L. Dorman.
Columbus, Ohio	29.10	739.1	29.92	760.0	71	21.7	90	sw.	7	3.1		0	0			1.44	36.6	clear	D. Cuthbertson.
Concho, Texas	28.08	713.2	29.96	761.0	72	22.2	84	calm	0	0		3 ck	5 s	s.		0	0	cloudy	W. W. McConihe.
Custer, Fort, Montana	27.00	685.8	30.02	762.5	52	11.1	74	nw.	2	0.9		0	0			0	0	clear	V. Verge.
Davenport, Iowa	29.31	744.5	29.94	760.5	66	18.9	63	nw.	12	5.4		0	0			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.19	639.8	29.83	757.7	69	20.6	63	sw.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.50	723.9	30.20	767.1	43.0	6.1	71	ne.	2	0.9		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.45	646.4	29.87	758.7	49.0	9.4	61	sw.	3	1.3		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					75	23.9	76	s.	8	3.6		5 ck	0	s.		0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	29.88	758.9	29.90	759.4	77	25.0	76	sw.	25	11.2		3 c	0	sw.		0	0	clear	A. Schneider.
Denison, Texas	29.22	742.2	30.00	762.0	74.0	23.3	90	s.	3	1.3			10 s		s.	0.04	1.0	cloudy	J. McGlone.
Denver, Colorado	24.84	630.9	29.85	758.2	58.0	14.4	47	s.	6	2.7		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.10	739.1	29.98	761.5	64	17.8	68	n.	4	1.8		3 ck	0	nw.		0	0	clear	F. W. Conrad.
Detroit, Michigan	29.13	739.9	29.82	757.4	68.0	20.0	56	sw.	10	4.5		0	0			0.09	2.3	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.35	694.7	29.85	758.2	71.0	21.7	84	s.	12	5.4		1 ck	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.21	741.9	29.90	759.4	65.7	18.7	57	w.	3	1.3		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	28.83	732.3	29.55	750.6	60	18.9	59	w.	19	8.5		0	3 k		w.	0.08	2.0	clear	N. B. Conger.
Eagle Pass, Texas	29.22	742.2	30.01	762.2	75.2	24.0	76	se.	3	1.3		0	0			0.06	1.5	clear	F. Belford.
Eagle Rock, Idaho	25.45	646.4	30.00	762.0	44	6.7	58	calm	0	0		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.68	753.9	29.74	755.4	55.0	12.8	86	s.	6	2.7			fg		s.	0	0	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.22	691.4	29.86	758.4	66	18.9	56	s.	1	0.4		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.23	666.2	29.83	757.7	70	21.1	66	ne.	1	0.4		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.10	739.1	29.81	757.2	73	22.8	76	sw.	7	3.1		8 k	0	w.		0.54	13.7	cloudy	Peter Wood.
Escanaba, Michigan	28.94	735.1	29.58	751.3	65	18.3	68	sw.	10	4.5		0	0			0.08	2.0	clear	C. Dill.
Fredericksburg, Texas	28.30	718.8	30.00	762.0	75	23.9	88	s.	6	2.7		0	8 ks		s.	0.10	2.5	cloudy	H. S. Miles.
Galveston, Texas	30.02	762.5	30.07	763.8	83	28.3	82	s.	13	5.8		0	5 k.		s.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.15	740.4	29.80	756.9	68.0	20.0	66	sw.	20	8.9		0	0			0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.25	641.3	29.82	757.4	69.9	21.1	36	ne.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.05	763.5	30.08	764.0	80.0	26.7	82	sw.	24	10.7		3 c	3 ks	sw.	w.	0	0	fair	R. M. Crawford.
Helena, Montana	26.02	660.9	30.08	764.0	52	11.1	50	sw.	6	2.7		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.03	737.3	30.01	762.2	80.9	26.7	79	s.	6	2.7		6 cs	0			0	0	fair	J. W. Byram.
Huron, Dakota	28.56	725.4	29.88	758.9	55.1	12.8	80	w.	7	3.1		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.18	741.2	29.95	760.7	74	23.3	71	sw.	2	0.9		0	0			0.18	4.6	clear	O. Schutze
Indianola, Texas	30.01	762.2	30.04	763.0	81.7	27.6	79	s.	12	5.4		0	3 k		s.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.84	732.5	29.96	761.0	75	23.9	90	se.	3	1.3		6 ck	3 s	w.		0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.08	764.0	30.12	765.0	82	27.8	74	sw.	6	2.7		0	0			0.02	0.5	clear	J. W. Smith.
Keogh, Fort, Montana	27.59	700.8	30.00	762.0	53	11.7	57	nw.	3	1.3		0	0			0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.30	744.2	29.94	760.5	72.5	22.5	63	calm	0	0		0	0			0	0	clear	F. Z. Gosewisch
Key West, Florida	30.09	764.3	30.11	764.8	82.0	27.8	72	se.	5	2.2			10 s		se.	1.40	35.6	cloudy	R. H. Paxton.
Kittyhawk, North Carolina	30.03	762.7	30.05	763.3	78.0	25.6	76	sw.	22	9.8		hz	0			0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.05	737.9	30.05	763.3	74	23.3	89	sw.	6	2.7		4 ck	5 s	w.		inap.	inap.	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.08	738.6	29.83	757.7	66	18.9	49	w.	12	5.4		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.10	662.9	29.84	757.9	66.0	18.9	63	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.12	739.6	29.98	761.5	68	20.0	78	calm	0	0		2 k	sk.			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.45	748.0	30.26	768.6	53.0	11.7	58	se.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.69	754.1	30.00	762.0	77	25.0	85	w.	4	1.8			10 s		nw.	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.66	753.4	30.05	763.3	58.1	14.5	86	nw.	3	1.3			10 s			0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.42	747.3	29.97	761.2	76	24.4	90	s.	5	2.2			10 s			0.69	17.5	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.30	744.2	29.97	761.2	77.0	25.0	66	w.	1	0.4		0	9 s			0	0	cloudy	W. R. Bushby.
Macon, Fort, North Carolina	30.08	764.0	30.09	764.3	79	26.1	88	sw.	12	5.4		1 k	hz.	sw.		0	0	clear	F. P. Chaffee.
Madison, Wisconsin	28.86	733.0	29.84	757.9	62	16.7	72	w.	9	4.0		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana																			H. W. Dodge.
McKavett, Fort, Texas	27.80	706.1	30.00	762.0	73	22.8	84	e.	3	1.3			8 ks		w.	0.01	0.3	cloudy	J. E. Thatcher.
Marquette, Michigan	28.81	731.8	29.52	749.8	66	18.9	59	sw.	10	4.5		0	0			0.06	1.5	clear	J. Gilligan.
Memphis, Tennessee	29.68	753.9	30.00	762.0	76	24.4	85	s.	6	2.7			10 s			0.01	0.3	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.08	738.6	29.81	757.2	64	17.8	90	sw.	17	7.6		0	hz.			0	0	clear	W. Line.

STATIONS.	BAROMETER. Corrected for instrumental error and for temperature.		Reduced to sea-level.		Temperature of the air.		Relative humidity.	WIND. Direction.	Velocity.		Force.	CLOUDS. Amount and kind. Upper.	Lower.	Direction. Upper.	Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.99	685.5	30.18	766.6	45	7.2	71	sw.	1	0.4	...	0	0	...	...	0	0	clear	J. H. Jones.
Mobile, Alabama	30.05	763.3	30.09	764.3	77	25.0	90	sw.	1	0.4	...	3ck;cs	0	w.	...	0.30	7.6	clear	C. A. Read.
Montgomery, Alabama	29.86	758.4	30.08	764.0	77.3	25.2	76	w.	6	2.7	...	4 cs;k	0	w.	...	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.78	756.4	29.74	755.4	58	14.4	80	w.	14	6.3	...	0	0	...	...	0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.96	735.6	29.96	761.0	73.5	23.1	88	sw.	4	1.8	...	...	10 n	...	sw.	0.44	11.2	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.75	603.2	29.82	757.4	55.8	13.2	96	nw.	47	21.0	...	...	10n;fg	...	nw.	0.30	7.6	light rain	J. G. Linsley
Nashville, Tennessee	29.50	749.3	30.02	762.5	77.0	25.0	82	w.	4	1.8	...	...	10 ks	...	w.	inap.	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.72	754.9	29.83	757.7	74	23.3	84	s	4	1.8	...	0	hz.	...	...	0	0	clear	J. H. Sherman.
New London, Connecticut	29.81	757.2	29.86	758.4	74	23.3	75	sw.	6	2.7	...	2 c	0	sw.	...	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.09	764.3	79.8	26.6	88	calm	0	0	...	1 c	3 s	...	sw.	0.91	23.1	fair	L. Dunne.
Newport, Rhode Island	29.81	757.2	29.86	758.4	68.2	20.1	92	sw.	9	4.0	...	0	fg.	...	sw.	0	0	clear	W. McGillivray.
New York, New York	29.69	754.1	29.86	758.4	76	24.4	82	sw.	4	1.8	...	2 cs	0	sw.	...	0	0	clear	J. B. Merrill.
Norfolk, Virginia	29.98	761.5	30.01	762.2	81	27.2	79	sw.	12	5.4	...	0	0	...	...	0	0	clear	H. L. Kemp.
North Platte, Nebraska	27.10	688.3	29.90	759.4	66.6	19.2	56	e.	10	4.5	...	...	10 s	...	sw.	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.24	768.1	30.28	769.1	41.0	5.0	92	n.	1	0.4	...	0	sk.	...	calm	0	0	clear	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.83	757.7	29.84	757.9	41.8	5.4	96	wsw.	4	1.8	...	2 c	3 s	wsw.	wsw.	0.07	1.8	fair	P. H. Ray.
Omaha, Nebraska	28.87	733.3	30.00	762.0	67.4	19.7	72	calm	0	0	...	6 cs	2 k	sw.	...	0	0	cloudy	A. Pollak.
Oswego, New York	29.42	747.3	29.74	755.4	76.5	24.7	71	w.	10	4.5	...	4 ck	0	w.	...	0.05	1.3	fair	S. W. Beall.
Palestine, Texas	29.51	749.5	30.05	763.3	78.0	25.6	90	s.	7	3.1	...	9ck;cs	0	w.	...	inap.	inap.	cloudy	L. M. Pindell.
Pensacola, Florida	30.06	763.5	30.09	764.3	78.7	25.9	91	calm	0	0	...	3 cs	1 s	nw.	...	0.77	19.6	fair	M. McGauran,
Philadelphia, Pa	29.79	756.7	29.89	759.2	79.5	26.4	72	sw.	4	1.8	...	3 cs	0	n.	...	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.04	458.2	29.82	757.4	35	1.7	49	nw.	26	11.6	...	0	0	...	...	0	0	clear	L. M. Dey.
Pioche, Nevada	24.19	614.4	29.92	760.0	66.2	19.0	22	nw.	6	2.7	...	0	0	...	...	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.09	738.9	29.88	758.9	74.0	23.3	87	w.	6	2.7	...	6 k	0	w.	...	0.15	3.8	fair	J. H. Bryce.
Poplar River, Montana	27.88	708.1	...	...	...	...	...	nw.	...	...	4	0	0	...	...	0.05	1.3	clear	W. D. Maxwell.
Port Eads, Louisiana	30.12	765.0	30.13	765.3	82.0	27.8	85	sw.	4	1.8	...	0	1 ks	...	sw.	0	0	clear	M. Hermann.
Port Huron, Michigan	29.10	739.1	29.76	755.9	68.6	20.3	71	sw.	9	4.0	...	0	0	...	...	0.02	0.5	clear	W. O. Bailey.
Portland, Maine	29.67	753.6	29.72	754.9	76	24.4	79	sw.	7	3.1	...	10 cs	0	w.	...	inap.	inap.	cloudy	W. W. Eichelberger.
Portland, Oregon	30.13	765.3	30.20	767.1	54.0	12.2	74	n.	1	0.4	...	0	0	...	...	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.86	631.4	29.85	758.2	58	14.4	57	s.	4	1.8	...	0	0	...	...	0	0	clear	J. McN. Wright.
Provincetown, Mass	29.79	756.7	29.82	757.4	72.0	22.2	84	s.	12	5.4	...	0	1 s	...	sw.	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.11	764.8	30.12	765.0	77	25.0	85	e.	2	0.9	...	4 ck	2 ks	calm	calm	0.10	2.5	fair	W. J. Evans.
Red Bluff, California	29.55	750.6	29.91	759.7	73.3	22.9	54	calm	0	0	...	0	0	...	...	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.78	756.4	30.01	762.2	81	27.2	74	se.	5	2.2	...	0	0	...	...	0	0	clear	P. M. Wilson.
Rochester, New York	29.09	738.9	29.74	755.4	73	22.8	66	w.	23	10.3	...	5 k	hz.	w.	...	0	0	fair	E. W McGann.
Roseburg, Oregon	29.58	751.3	30.12	765.0	47	8.3	81	calm	0	0	...	0	0	...	...	0	0	clear	J. J. Naary.
Sacramento, California	29.83	757.7	29.90	759.4	64.2	17.9	68	se.	6	2.7	...	0	0	...	...	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.43	747.5	30.01	762.2	71.5	21.9	87	nw.	3	1.3	...	0	0	...	...	0	0	clear	J. H. Webber.
St. Paul, Minnesota	28.91	734.3	29.75	755.6	59	15.0	70	sw.	16	7.2	...	0	0	...	...	0	0	clear	P. F. Lyons
St. Vincent, Minnesota	28.72	729.5	29.56	750.8	52	11.1	86	w.	20	8.9	...	0	0	...	...	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.78	654.8	29.96	761.0	61	16.1	48	calm	0	0	...	0	0	...	...	0	0	clear	J. Craig.
San Antonio, Texas	29.33	745.0	30.01	762.2	79.5	25.4	82	s.	3	1.3	...	...	10 ks	...	s.	inap.	inap.	cloudy	T. J. Kenan.
San Diego, California	29.90	759.4	29.97	761.2	63.5	17.5	89	n.	4	1.8	...	...	fg.	...	...	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.19	741.4	29.85	758.2	70.3	21.3	76	w.	15	6.7	...	0	0	...	...	inap.	inap.	clear	M. H. Perry.
Sandy Hook, New Jersey	29.81	757.2	29.84	757.9	79.0	26.1	74	sw.	16	7.2	...	1 c	0	sw.	...	0	0	clear	B. A. Blundon.
San Francisco, California	29.93	760.2	30.00	762.0	54.5	12.5	96	w.	7	3.1	...	...	fg.	...	w.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.34	592.8	29.84	757.9	60	15.6	14	ne.	10	4.5	...	0	0	...	...	0	0	clear	H. U. Jones.
Savannah, Georgia	30.01	762.2	30.10	764.5	81	27.2	69	sw.	6	2.7	...	1 c	0	...	...	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.60	675.6	30.11	764.8	42	5.6	67	w.	4	1.8	...	0	0	...	...	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.81	757.2	30.04	763.0	77	25.0	97	w.	3	1.3	...	...	10 n	...	w.	0.96	24.4	light rain	E. N. Meekins.
Sill, Fort, Indian Territory	28.77	730.7	29.97	761.2	73.8	23.2	95	se	6	2.7	...	0	1 s	...	se.	0	0	clear	T. Cleary.
Silver City, New Mexico	24.32	617.7	29.78	756.4	61	16.1	46	nw.	3	1.3	...	0	0	...	...	0	0	clear	J. B. Wallace.
Sitka, Alaska	30.26	768.6	30.32	770.1	51	10.6	80	se.	5	2.2	...	...	10 ks	...	...	0.32	8.1	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.54	750.3	30.00	762.0	72.0	22.2	100	s.	2	0.9	...	...	fg.	...	...	0.04	1.0	dense fog	J. B. Campbell.
Smithville, North Carolina	30.06	763.5	30.08	764.0	81	27.2	79	sw.	12	5.4	...	4 k	0	sw.	...	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.24	717.3	30.22	767.6	46	7.8	77	calm	0	0	...	0	0	...	...	0	0	clear	D. Moore.
Springfield, Illinois	29.34	745.2	30.00	762.0	70.5	21.4	70	w.	2	0.9	...	0	0	...	...	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.67	753.6	29.80	756.9	76.1	24.5	85	sw.	6	2.7	...	4 ck	0	sw.	...	0	0	fair	T. S. Outram.
Springfield, Mo	28.61	726.7	30.00	762.0	65	18.3	92	w.	3	1.3	...	...	fg.	...	...	0	0	dense fog	J. B. Marbury.
Starkville, Miss	29.59	751.6	30.06	763.5	77	25.0	85	sw.	7	3.1	...	4 ck	4 s	w.	...	0	0	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.05	712.5	29.83	757.7	53	11.7	80	w.	7	3.1	...	0	0	...	...	0.02	0.5	clear	W. Burrows.
Stockton, Fort, Texas	26.98	685.3	29.92	760.0	66.0	18.9	90	calm	0	0	...	...	10 s	...	calm	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass	29.75	755.6	29.80	756.9	67.9	19.9	81	sw.	9	4.0	...	0	0	...	...	0	0	clear	G. Liebmann.
Toledo, Ohio	29.15	740.4	29.82	757.4	74	23.3	64	sw.	10	4.5	...	0	0	...	...	0.04	1.0	clear	A. Buell.
Tucson, Arizona	27.52	699.0	29.84	757.9	78	25.6	62	calm	0	0	...	3 c	0	...	...	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.88	758.9	30.24	768.1	52.5	11.4	36	e.	4	1.8	...	1 c	0	nw.	...	0	0	clear	J. Daly.
Uvalde, Texas	29.05	737.9	29.99	761.7	74	23.3	90	se.	1	0.4	...	3 cs	0	ne.	...	0.05	1.3	clear	E. C. Imlay.
Verde, Fort, Arizona	...	...	...	...	68.2	20.1	61	w.	...	...	1	0	0	...	...	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.81	757.2	30.05	763.3	78	25.6	91	sw.	4	1.8	...	0	0	...	...	0.33	8.4	clear	H. P. Brisbane.
Visalia, California	29.54	750.3	29.91	759.7	65	18.3	63	se.	3	1.3	...	0	0	...	...	0	0	clear	W. L. Seward.
Washakie, Fort, Wyoming	24.62	625.3	29.95	750.7	45.7	7.6	72	nw.	5	2.2	...	0	0	...	...	0	0	clear	T. M. Ambler.
Washington, D. C.	29.80	756.9	29.91	759.7	80.5	26.9	67	s.	4	1.8	...	6 ck	0	w.	...	0	0	fair	B. M. Pursell.
West Las Animas, Colorado	26.02	660.9	29.78	756.4	59	15.0	78	e.	4	1.8	...	0	0	...	...	0	0	clear	F. W. Brandenburg.
Williamsport, Pa	29.24	742.7	29.82	757.4	77	25.0	74	w.	3	1.3	...	...	10 ks	...	w.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.04	763.0	30.09	764.3	78	25.6	88	sw.	5	2.2	...	0	1 s	...	sw.	0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.78	654.8	30.00	762.0	60.5	15.8	13	ne.	10	4.5	...	0	0	...	...	0	0	clear	J. Grover.
Yankton, Dakota	28.68	728.5	29.95	760.7	62	16.7	67	w.	6	2.7	...	0	0	...	...	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.66	753.4	29.80	756.9	82.0	27.8	58	se.	17	7.6	...	0	0	...	...	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.08	560.8	...	...	53.5	11.9	78	calm	0	0	...	...	8 s	...	w.	0.04	1.0	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.08	764.0	30.09	764.3	81	27.2	95	e.	...	...	...	10 k	10 ks	...	...	0.67	17.0	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.99	761.7	30.02	762.5	77	25.0	90	calm	0	0	...	...	10 ks	...	calm	0.40	10.2	cloudy	J. I. Plume.
Kingston, Jamaica, W. I.	30.11	764.8	30.12	765.0	79.0	26.1	80	calm	0	0	...	1 ck	2 ks	e.	e.	0	0	...	Robert Johnston.
Magua, San Domingo, W. I	...	...	...	...	75	23.9	...	calm	...	...	0	0	9 k	...	se.	0	0	...	S. M. Pike.
Navassa	30.00	762.0	30.08	764.0	81	27.2	70	e.	7	3.1	...	4 k	2 s	se.	e.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.12	765.0	30.12	765.0	77	25.0	86	se.	...	...	2	4 c	4 s	...	...	0.190	4.8	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.42	747.3	29.98	761.5	75	23.9	94	calm	...	...	0	...	fg.	...	...	inap.	inap.	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	...	...	...	...	...	...	96	ne.	...	...	1	1 ck	1 ks	se.	ne.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.09	764.3	30.11	764.8	79	26.1	74	calm	0	0	...	2 c;	0	...	...	0	0	fair	Robert Mason
[illegible] Factory, R. A.	29.88	758.9	29.94	760.5	59.0	15.0	94	ne.	15	6.7	...	3 k	3 s	e.	ne.	0	0	fair	F'rtesatto & Wood

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, S. 20° 07′ W. 0° 29′	30.30	769.6	68	20.0	64	se.			3		3							d. clouds.
H. M. S. Amethyst, Montevideo, Uruguay	30.24	768.1	47	8.3	92	nne.			1–2		0							blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.71	754.6	80	26.7		n.			1									blue sky.
H. M. S. Bacchante, Valencia, Spain	29.99	761.7	78	25.6	73	sse.			1–3		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.19	766.8	60	15.6		nw.			4–5		8	w.						showery.
H. M. S. Champion, N. 28° 40′, E. 147° 00′			82	27.8	100	nne.			1		1					2	sw.	blue sky.
H. M. S. Comus, N. 45° 30′, E. 155° 05′	29.88	758.9	48	8.9	92	nne.			1–2		10					2	e.	drizzling.
H. M. S. Diamond, S 4° 13′, E. 152° 11′	29.93	760.2	81	27.2	87	calm			0		10							overcast.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.00	763.5	77	25.0		e.			1–3		8	e.						showery.
H. M. Dock-Yard, Bermuda, W. I.	30.25	768.3	78.5	25.8	86	wsw.			1		6	wsw.						d. clouds.
H. M. S. Druid, N. 20° 34′, W. 73° 51′	30.14	765.5	82	27.8	89	e.			2–3		3	e.				3	e.	d. clouds.
H. M. S. Eclipse, S. 11° 02′, E. 41° 30′	30.15	765.8	79	26.1		sse.			3		3					3	ene.	d. clouds.
H. M. S. Emerald, S. 8° 55′, W. 17° 40′	30.17	766.3	75	23.9	95	ene.			2–3		7	ene.				1	e.	showery.
H. M. S. Euryalus, N. 6° 30′ E 78° 20′	29.86	758.4	82	27.8	95	wsw.			3		8	w.				2	w.	d. clouds.
H. M. S. Espiegle, S. 15° 16′ E. 167° 47′	30.09	764.3	76	24.4	90	se.			1		2					1	e.	squally.
H. M. S. Fantome, Saint Lucia, Jamaica	30.11	764.8	82	27.8		calm			0		3	ne.						d. clouds.
H. M. S. Fawn, S. 30° 05′, E. 31° 37′	30.10	764.5	72	22.2	67	nnw.			4		0					4	nnw.	blue sky.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.07	763.8	58	14.4	87	se.			1		10							overcast.
H. M. S. Garnet, S. 11° 20′, W. 19° 40′	30.15	765.8	75	23.9	72	ese.			5		5							squally.
H. M. S. Griffon, N. 51° 12′, W. 55° 55′	29.52?	749.8?	52	11.1	86	se.			2		10							misty.
H. M. S. Iris, Port Said, Egypt	29.94	760.5	80	26.7	91	nnw.			2–3		0					1	wnw.	blue sky.
H. M. S. Iron Duke, N. 41° 46′ E. 140° 42′	30.01	762.2	61	16.1	94	e.			2–3		0							blue sky.
H. M. S. Kingfisher, San Francisco, California	29.98	761.5	54	12.2		ssw.			2		8							d. clouds.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.96	761.0	79.3	26.3	94	e.			1		5					2	e.	showery.
H. M. S. Liffey, Coquimbo, Chili	29.96	761.0	46.5	8.1		calm			0		10							foggy.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	29.98	761.5	73.0	22.8	84	n.			1–2		4							d. clouds.
H. M. S. Minotaur, N. 35° 46′, E. 24° 52′	29.68	753.9	77	25.0	82	w.			4		0					2	wnw.	dense mist.
H. M. S. Nelson, S. 36° 50′, E. 174° 49′	29.71	754.6	57	13.9	87	ne.			2–5		4	sw.						d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.85	758.2	55	12.8	96	se.			1									foggy.
H. M. S. Orontes, N. 37° 25′ E. 10° 30′	30.11	764.8	75.5	24.2	92	w.			4		1					2	w.	blue sky.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.85	758.2	83.5	28.6	79	ssw.			2		2							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Is d	30.21	767.3	70	21.1	90	se.			2		9	se.						d. clouds.
H. M. S. Rocket, Vancouver Island, B. A.	30.28	769.1	47	8.3	92	wsw.			2		0							blue sky.
H. M. S. Sappho, S. 20° 00′ W. 147° 00′	30.02	762.5	74.5	23.6		calm			0		6	calm				4	sw.	d. clouds.
H. M. S. Swiftsure, Rio de Janeiro, Brazil	30.23	767.8	70.5	21.4	84	wnw.			1		3							foggy.
H. M. S. Sylvia, Montevideo, Uruguay	30.28	769.1	43.7	6.5	92	n.			1		2							d. clouds.
H. M. S. Tenedos, N. 49° 00′ W. 58° 15′	29.90	759.4	51	10.6	86	se.			1		8							d. clouds.
H. M. S. Triumph, Talcahuano, Chili	29.87	758.7	44	6.7	92	calm			0		4	sw.						d. clouds.
H. M. S. Woodlark, Off Bassorah, Asiatic Turkey	29.42	747.3	102.5	39.2	32	nw.			1–2		0							blue sky.
H. M. S. Zephyr, N. 24° 48′, E. 120° 20′	29.80	750.9	81	27.2	100	nw.			2		0					2	n.	blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.14	765.5	76.5	24.7	86	ne.			2		4					2		d. clouds.
Tamega, Macao, China	29.81	757.2	84.2	29.0	79	ene.			4		9			3 h'r	3 h'r			overcast.
SWEDISH NAVAL.																		
Saga, Harofiord, Norway	29.53	750.0	59.2	15.1	93	sw.			2		9							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	30.06	763.5	76	24.4	91	w.	3	1.3			8		sw.	0.02	0.5			fair.
N. Yard, Portsmouth, N. H.	29.78	756.4	76	24.4	82	sw.	7	3.1			9		w.	0	0			cloudy.
Naval Hospital, Yokohama, Japan*	29.78	756.4	72	22.2	100						10		w.	0	0			gloomy.
Adams, Mare Island, Cal.	29.99	761.7	59	15.0	94	sw.			2		8			0	0	sm'h		cloudy.
Alaska, Callao, Peru	30.01	762.2	59	15.0	88	calm			0		10			0	0	sm'h		cloudy.
Alert, N. 46° 09′, W. 152° 19′*	30.14	765.5	56	13.3	75	calm			0		10		calm	0	0	sm'h		cloudy.
Alliance, Boston, Mass	29.81	757.2	75	23.9	86	w.			2		8			0	0			fair.
Ashuelot, Yokohama, Japan*	29.82	757.4	75	23.9	86	nw.			1		10		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.28	769.1	68	20.0	95	n.	3	1.3			10		calm	0	0	sm'h		foggy.
Colorado, New York, N. Y.	29.84	757.9	79	26.1	82	sw.			1		2		calm	0	0			hazy.
Constellation, N. 37° 56′, W. 73° 25′*	30.03	762.7	74	23.3	90	sw.			5		0					mod.	sw.	clear.
Enterprise, New York, N. Y*	29.81	757.2	77	25.0	91	sw.			2		2		sw.					clear.
Essex, S. 49° 30′, W. 80° 05′	29.89	759.2	49	9.4	100	nw.			6-7		10		nw.			r'gh		squally.
Franklin, Norfolk, Va.	30.03	762.7	77	25.0	91	sw.	16.5	7.4			0			0	0			clear.
Galena, N. 31° 18′, E. 29° 34′	29.77	756.1	81	27.2	96	w.			3		2					sm'h		clear.
Independence, Mare Island, Cal.	30.02	762.5	58	14.4	94	sw.			2		10			0	0			cloudy.
Iroquois, San Francisco, Cal.	30.02	762.5	58	14.4	88	sw.			2		10			0	0			misty.
Kearsarge, Norfolk, Va.	30.01	762.2	77	25.0	100	sw.			1		0							clear.
Lackawana, Callao, Peru*	30.04	763.0	60	15.6	88	calm			0		10							cloudy.
Lancaster, Alexandria, Egypt*	29.71	754.6	83	28.3	96	nnw.			2		0			0	0	sm'h	nw.	clear.
Marion, S. 34° 54′, W. 56° 13′	30.24	768.1	50	10.0	100	nne.			1							sm'h		clear.
Michigan, Detroit, Mich.	29.74	755.4	69	20.6	80	sw.			5		0							clear.
Minnesota, Newport, R. I.	29.89	759.2	66	18.9	100	ssw.	10	4.5			5							fair.
Monocacy, Chefoo, China	29.91	759.7	73	22.8	90	ssw.			1		10		calm			sm'h		cloudy.
New Hampshire, Newport, R. I.	29.87	758.7	66	18.9	94	sw.			4		2		w.			sm'h		hazy.
Nipsic, N. 32° 39′ E. 27° 39′.*	29.68	753.9	79	26.1	86	w.			4		0					sm'h		hazy.
Onward, Callao, Peru	30.17	766.3	59	15.0	88	s.			1		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.87	758.7	74	23.3	81	n.			2		8		sw.					fair.
Passaic, Washington, D. C.	29.92	760.0	79	26.1	91	sw.			2		5		sw.					fair.
Pensacola, Panama, Panama*	29.92	760.0	79	26.1	82	nnw.	4	1.8			10		nnw.	0	0	sm'h		cloudy.
Portsmouth, Lisbon, Portugal*	30.15	765.8	68	20.0	95	w.			3		5							fair.
Powhatan, N. 28° 46′ W. 85° 41′	30.12	765.0	84	28.9	79	wsw.			2		8		nw.			sm'h		fair.
Quinnebaug, Alexandria, Egypt	29.73	755.1	80	26.7	91	wnw.			3		2		nw.			sm'h		hazy.
Ranger, Mare Island, Cal.	29.99	761.7	60	15.6	88	wsw.			2		10		calm	0	0			overcast.
Richmond, Yokohama, Japan*	29.86	758.4	75	23.9	95	ene.			3		10			0	0			cloudy.
Saratoga, Lisbon, Portugal	30.15	765.8	71	21.7	75	w.			2		5		w.	light	light	sm'h		fair.
St. Louis, League Island, Pa.	30.11	764.8	79	26.1	74	ssw.			2		2			0	0			clear.
Swatara, Yokohama, Japan*	29.78	756.4	75	23.9	86	w.			1		8		w.			sm'h		light rain.
Tennessee, New York, N. Y.	29.88	758.9	80	26.7	82	sw.	12	5.4			0			0	0			clear.
Vandalia, Portsmouth, N. H*	29.73	755.1	74	23.3	90	wsw.			2		10		ene.					cloudy.
Wabash, Boston, Mass.	29.82	757.4	75	23.9	81	sw	9	4.0			5		sw.	0	0			fair.
Wachusetts, Highfield Harbor, Alaska†	30.56	776.2	48	8.9	92	ese.			1		10					sm'h		rainy.
Wyoming, Port Royal, S. C*	30.07	763.8	78	25.6	73	s.	7	3.1			2		calm	0	0			clear.
Yantic, off Fort Point, Maine	29.64	752.8	67	19.4	79	sw.			4		5							fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 52° 00′, W. 53° 17′*	29.82	757.4	43	6.1	100	n.			4		10		nne.	0	0	2	ne.	misty.
S. S. Grecian, N. 54° 23′, W. 45° 06′*	29.53	750.0	47	8.3		ne.			6		10		ne.	24 h'r	24 h'r	high	ne.	misty.
S. S. Scandinavian, N. 43° 14′ W 59° 40′*	29.88	758.9	58	14.4		sse.			3		3		wsw.	0	0	sm'h	wsw.	d. clouds.
S. S. Waldensian, Glasgow, Scotland*	29.72	754.9	64	17.8		var.			3		5		nw.	0	0			fine.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, Liverpool, Eng*†	29.55	750.6				se.			2		10			2 h'r	2 h'r			overcast.
S. S. Lord Gough, N. 49° 49′ W. 41° 36′			59	15.0		sw.			8		10		sw.	7 h'r	7 h'r	r'gh	wsw.	threatening.
S. S. Pennsylvania, N. 39° 37′, W. 65° 36′†	30.05	763.3	71	21.7		w.			3		5		wsw.			sm'h	w.	blue sky.
ANCHOR LINE.																		
S. S. Alexandria, N. 44° 32′ W. 80 56′	29.90	759 4	62	16.7		wsw.			5		6		w.	12 h'r	12 h'r	con.	w.	
S. S. Assyria, N. 40° 28′, W. 30° 10′*†	30.34	770.6	71	21.7		wsw.			5		0			0	0	mod.	wsw.	clear.
S. S. Devonia, N. 51° 54′, W. 27° 45′†	29.95	760.7	54	12.2		s.			3		10		s.			long.	wsw.	cloudy.
S. S. Galatia, N. 34° 02′, E. 17° 46′†	30.14	765.5	78.2	25.7		n.			6		3		n.	0	0	r'gh	nnw.	clear.
ATLAS LINE.																		
S. S. Alvo, N. 16° 11′, W. 76° 53′	30.10	764.5				ese.			5		5?		ese.	1 h'r	1 h'r	mod.	se.	cloudy.?
BOSTON AND HALIFAX.																		
S. S Carroll, Hawksburg, Cape Breton†	29.99	761.7	62	16.7		sse.			3		10			0	0			cloudy.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, N 7° 53′ W. 23° 52′	30.09	764.3	79	26.1	90	var.			1		6							blue sky.
S. Baroda, S. 32° 07′, E. 29° 41′	30.05	763.3	71.2	21.8	67	n.			3		1							blue sky.
S. S. Basil, N. 36° 34′, W. 11° 04′	30.22	767.6	68.5	20.3	88	nw.			3		8					4	nnw.	d. clouds.
S. S. Cipero, N 27° 23′ W 49° 56′	30.36	771.1	79.1	26.2	82	ese.			1		2							d. clouds.
S. S. City of Agra, N. 8° 36′, W. 24° 03′	30.10	764.5	80.4	26.9	95	ssw.			2		3							d. clouds.
S. S Gordon Castle, N. 36° 47′, W. 0° 38′	30.10	764.5	78	25.6	69	calm			0		0							misty.
S. S. Markland, S. 35° 20′, W. 129° 12′	29.88	758.9	58.4	14.7	100	wnw.			5		9					4	nw.	misty.
May Hulse, S. 10° 32′, W. 24° 01′	30.14	765.5	74	23.3	90	e.			4		10							drizzling.
S. Camarn, S. 32° 30′, E. 28° 50′	30.04	763.0	69.5	20.8	61	e.			4-5									blue sky.
S. S. Pole Star, N. 18° 45′, W. 34° 55′	30.20	767.1	74.8	23.8	100	ene.			5		6							squally.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 24° 51′, W. 112° 24′*†	29.98	761.5	62	16.7	71	nw.			2		10					hv'y	w.	cloudy.
CROMWELL LINE.																		
S. S. Hudson, N. 30° 56′, W. 80° 30′†	30.05	763.3	76	24.4		s.			4		2		ssw.	0	0	mod.	s.	fair.
CUNARD LINE.																		
S. S. Bothnia, N. 47° 33′, W. 32° 10′	29.60	751.8	62.3	16.8	100	sse.			5		10		s.	4 h'r	4 h'r	mod.	sse.	misty.
S. S. Scythia, Liverpool, Eng	29.52	749.8	64	17.8	83	se.			1		10			0	0			overcast.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 40° 50′, W. 67° 45′†	29.91	759.7	73.4	23.0		sw.			5		ck		sw.	0	0	sm'h	wsw.	hazy.
S. S. Ville de Marseilles, Marseilles, France*†	29.95	760.7	83	28.3		nw.			2		0			0	0			clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Gellert, N. 40° 41′, W. 70° 31′	29.92	760.0	64	17.8		sw.			3		5		sw.	0	0	sm'h		fair.
S. S. Herder, New York, N. Y*†.	29.85	758.2	76	24.4		sw.			2		2		sw.	0	0			fair.
S. S. Silesia, N. 43° 46′, W. 42° 55′†	29.82	757.4				w.			6-7		7		w.	3 h'r	3 h'r	6-7	w.	cloudy.
INMAN LINE.																		
S. S. City of Berlin, N. 45° 30′, W. 38° —′	29.60	751.8				sw.			6		6		ssw.	8 h'r	8 h'r	r'gh	sw.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 17° 00′ W. 25° 00′.*†	30.30	769.6	76	24.4		ne.			5		3		ne.	0	0	sm'h		clear.
MALLORY LINE.																		
S. S. Colorado, Galveston, Texas†	30.05	763.3	82	27.8		se.			3		3		se.	0	0			clear.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 34° 48′ W. 35° 57′*†	30.42	772.7	75	23.9	95	wsw.			3		1		wsw.	0	0	long	nw.	fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 44° 03′, W. 44° 00′.†	29.78	756.4	61	16.1	88	w.			5		5		w.	4 h'r	4 h'r	mod.	wsw.	misty.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 16° 35′, W. 36° 55′	29.86	758.4				se.			4				ese.	0	0	mod.	ese.	fine.
S. S. Glenapp, New York, N. Y.†	30.17	766.3				w.			3		2		calm	0	0			clear.
MORGAN LINE.																		
S. S. New York, N. 32° 15′, W. 79° 40′ *†	30.20	767.1	80	26.7		sw.			3				sw.	0	0	small	sw.	fine.
NATIONAL LINE.																		
S. S. Denmark, N. 50° 02′ W. 4° 03′	29.46	748.3	59	15.0		ssw.			5		10		ssw.	2½ h'r	2½ h'r	slight	sw.	misty.
S. S. England, N. 44° 52′, W. 38° 36′	29.65	753.1				wsw.			6		5?		w.	4 h'r	4 h'r	high	w.	cloudy.?
S. S. Erin, Liverpool, Eng	29.67	753.6	62	16.7		wsw.			3		10		w.	6 h'r	6 h'r			
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Saratoga, N. 28° 15′, W. 78° 50′†	30.40	772.1	77	25.0	90	ssw.			4		10		s.	8 h'r	8 h'r	sm'h		cloudy.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Progreso Roads, Mexico †	30.22	767.6	79	26.1	95	ene.			2		2		e.	0	0			clear.
S. S. City of Washington, N. 35° 13′, W. 74° 47′*†	30.20	767.1	80	26.7		w.			2		2		w.	2 h'r	2 h'r	mod.	s.	fine.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. State of Nebraska, N. 52° 24′, W. 24° 23′†	29.98	761.5	54	12.2		wsw.			2-3							sm'h		cloudy.
NORTH GERMAN LLOYD.																		
S. S. Habsburg, N. 40° 29′, W. 72° 19′	29.85	758.2	71.6	22.0		sw.			4		0			0	0	mod.	sw.	fair.
S. S. Hermann, N. 39° 53′, W. 66° 40′	30.04	763.0	79.7	26.5		sw.			5				wsw.	0	0	cross	wsw.	fair.
S. S. Hohenzollern, N. 39° 55′, W 50° 22′*	30.08	764.0	67.1	19.5		nw.			5		8?		nw.	0	0	mod.	nw.	clear ?
S. S. Leipzig, N. 49° 27′ W. 9° 47′	29.60	751.8	59.0	15.0	87	nw.			7		8		nw.	9 h'r	9 h'r	r'gh	nw.	squally.
S. S. Mosel, N. 43° 22′ W. 45° 11′	29.79	756.7	53.6	12.0		w.			6		8		w.	½ h'r	½ h'r	rg'h	w.	cloudy.
S. S. Ohio, Bremerhaven, Germany	29.74	755 4				w.			3		4		w.	3 h'r	3 h'r			raining.
S. S. Rhein, N. 50° 06′, W. 4° 01′	29.42	747.3				sw.			4		7		sw.	light	light	mod.	sw.	cloudy.
S. S. Salier, Sandy Hook, N. J	29.91	759 7	63.5	17.5		sw.			3		2		sw.	0	0			fair.
S. S. Strassburg, N. 48° 29′, W. 23° 21′	30.01	762.2	66.0	18.9	73	ssw.			2		10		wnw.	1 h'r	1 h'r	long	nw.	covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, Yokohama, Japan*†	29.80	756.9	76	24.4	86	n.			1		5		ne.	sh'rs	sh'rs			d clouds.
S. S. Belgic, San Francisco, Cal.†	30.05	763.3	59	15.0	87	sw.			4		10		sw.					foggy.
S. S. Coptic, N 28° 11′ E. 125° 43′	29.97	761.2	78.5	25.8	100	ssw.			3		2		sw.	0	0	3	sw.	blue sky.
S. S. Gaelic, San Francisco, Cal †	30.02	762.5	54	12.2	86	nw.			4		2		nnw.					foggy.
S. S. Oceanic, Hong Kong, China*.	29.70	754.4	84	28.9	68	e.			5		10		e.					squally.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York N. Y.†	29.93	760.2				sw.			1		2		sw.	0	0			clear.
S. S. City of Columbus, New York, N. Y†.	29.97	761.2				ssw.			2		0			0	0			clear.
S. S. Seminole, Savannah, Ga†	30.12	765.0	80	26 7	91	sw.			3		1		sw.	0	0			clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 40° 06′, W. 124° 30′†	29.94	760.5	50	10.0	86	nw.			2		0					light	nw.	hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 37° 06′, W. 122° 24′†	29.94	760.5	54	12.2	93	ne.			1		10		n.			sm'h		foggy.
S. S. Dakota, N. 40° 28′, W. 124° 31′*†	29.94	760.5	56	13.3	87	var.			1		0					mod.	sw.	clear.
S. S. State of California, San Francisco, Cal.†	29.99	761.7	51	10.6	?	w.			3		10							foggy.
S. S. Victoria, San Francisco, Cal.†	30.00	762.0	56	13.3	87	calm			0		5			0	0	sm'h		hazy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	29.95	760.7	60	15.6	71	nne.			5		5?		ne.	0	0			clear.?
S. S. City of New York, N. 13° 11′, W. 161° 13′†	30.05	763.3	78	25.6	82	e.			4		8		se.	1 h'r	1 h'r	sm'h		squally.
S. S. City of Pekin, N. 44° 50′, E. 163° 54′ †	30.02	762.5	49	9.4	100	se.			5		10		se.	0	0	light	ene.	misty.
S. S. City of Rio de Janeiro, N. 23° 04′, W. 108° 09′*†	30.18	766.6	80	26.7	78	se.			1		10		e.	0	0	sm'h		fair.
S. S. City of Sydney, Sydney N. S. W.†	29.93	760.2	65	18.3	45	w.			5		5		w.	0	0	sm'h		cloudy.
S. S. City of Tokio, N. 43° 34′, W. 179° 29′†	29.94	760.5	52	11.1	86	w.			5		10		w.	6 h'r	6 h'r	chop	wnw.	fine.
S. S. Colon, Aspinwall, Panama†	29.99	761.7	79	26.1		calm			0		10			4 h'r	4 h'r	mod.		overcast.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—CONTINUED.																		
S. S. Colima, Panama, Panama†	29.96	761.0	76	24.4	86	nw.			2		9		w.	0	0			cloudy.
S. S. Grenada, N. 23° 08′, W. 107° 21′†	29.94	760.5	80	26.7	100	sw.			1		2		sw.	0	0	light	ssw.	clear.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, Martinique, W. I.	29.95	760.7	81	27.2		e.			3		8			sqll's	sqll's	sm'h		squally.
S. S. Bermuda, N. 32° 28′, W. 68° 03′†	30.25	768.3	81	27.2		ssw.			3		9		ssw	h'vy	h'vy	gentle	sw.	fair.
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	29.49	749.0	68	20.0	57	sw.			3		2?		sw.	5 h'r	5 h'r			cloudy ?
S. S. Nederland, N. 40° 36′, W. 58° 08′†	29.89	759.2	74	23.3	90	nw.			2		10		w.	1 h'r	1 h'r	sm'h	nw.	cloudy.
S. S. Rhyniand, N. 40° 50′, W. 53° 44′	30.09	764.3	71	21.7	75	wnw.			2		2		wnw.	0.2	5.	mod.	wnw	clear.
S. S. Vaderland, Antwerp, Belgium	29.58	751.3	61	16.1	94	ese.			2		10			3 h'r	3 h'r			rainy.
ROTTERDAM LINE.																		
S. S. P. Caland, N. 49° 53′ W. 9° 33′	29.54	750.3	61.9	16.6	85	ssw.			6		8 kn		sw.			r'gh	ssw.	cloudy.
S. S. Schiedam, N. 50° 00′, W. 7° 30′*	29.37	746.0	63.0	17.2	83	nnw.			4		8		sw.	11 h'r	11 h'r	r'gh	sw.	hazy.
S. S. W A Scholten, N. 43° 10′, W. 45° 42′	29.75	755.6	59.0	15.0	88	wnw.			6		9		n.	0	0	r'gh	wsw.	
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.55	750.6	66	18.9		nne.			2		9		ne.	1 h'r	1 h'r			hazy.
S. S. State of Georgia, N. 43° 29′ W. 44° 52′†	29.74	755.4	56	13.3		w.			6		8		w.	sh'rs	sh'rs	mod.	w.	squally.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	29.93	760.2	71.6	22.0		ssw.			2		4		ssw.	0	0			clear.
WHITE STAR LINE.																		
S. S. Celtic, N. 45° 52′, W. 39° 22′†	29.63	752.6	60	15.6	?	wsw.			6		8		wsw.	12 h'r	12 h'r	mod.	w.	showery.
S. S. Republic, Liverpool, England†	29.69	754.1	62	16.7	88	sw.			5		10		s.	sh'rs	sh'rs			overcast.
WILSON LINE.																		
S. S. Romano, N. 47° 31′, W. 13° 57′	29.94	760.5	59	15.0		n.			6		3		nw.	0	0	mod.	nw.	clear.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa†	30.02	762.5	78	25.6		sw.					0			0	0			clear.
MISCELLANEOUS.																		
Schr. Ajax, Indianola, Texas†	30.10	764.5				se.			1		8		s.	0	0			hazy.
Bk. Alpha, New York, N. Y†	29.85	758.2	79	26.1		wsw.			3		0			0	0			clear.
Schr Annie Lewis, Aransas Pass, Texas†	30.15	765.8	82	27.8		sse.			2		0			0	0	long	se.	clear.
Bk. Anna Thormann, S. 38° 18′ E. 1° 59′	29.96	761.0	55.2	12.9	75	nw.			7		9 kn		nw.	shr's	shr's	long	w.	misty.
S. S. Antonio Lopez, N. 33° 53′, W. 9° 37′	30.19	766.8	68	20.0	84	n.			5		1			0	0	mod.		clear.
Bk. Argonaut, N. 59° 03′ W. 11° 28′*†	29.67	753.6	60.3	15.7		sw.			2		8		sw.	1 h'r	1 h'r	mod.	w.	cloudy.
Schr. Asa Eldridge, N. 23° 35′, W. 82° 05′†	30.20	767.1				ese.			3		2		ene.	0	0	sm'h		fair.
S. S. Burswell, N 37° 20′, W. 70° 18′*†	30.13	765.3	76	24.4		ssw.			2–3		4		wsw.	0	0	sli't	sse.	light haze.
Bk. Cato, N. 56° 56′, W. 13° 50′*†	29.96	761.0				nw.			3		1		nw.	0	0	sm'h	nw.	clear.
Bk. Celestina, S. 31° 25′, W. 43° 12′*†	30.28	769.1				calm			0		0			0	0	long	sse.	clear.
Schr. C. R. Flint, Cedar Keys, Florida†	30.33	770.4	79	26.1		calm			0		5		w.	0	0			fair.
S. Cornelius, N. 38° 54′, W. 65° 20′*†	30.32	770.1	75	23.9		sw.			4		1		w.	0	0	mod	wsw.	clear.
Schr. Edith R. Seward, Ponce, Porto Rico, W. I*†	30.18	766.6	82	27.8		ne.			1		1		ene.	0	0			clear.
S. E. J. Spicer, New York, N. Y.†	29.85	758.2				wsw.			3		2			0	0			clear.
Bk. E. L. Pettingill, Off Cape Flattery, W. T†	30.20	767.1				wnw.			5		0			0	0	sm'h		clear.
S. Enoch Train, N. 38° 37′, W. 63° 40′*†	30.21	767.3				wsw.			2		1			0	0			clear.
Bk. Essex, S. 35° 31′ W. 6° 47′*†	30.19	766.8	65	18.3		nw.			4		6?		nnw.	0	0	high	w.	clear ?
Bk. Freya, N. 40° 09′ W. 66° 19′						sw.			5		0			0	0	sm'h		fair.
S. Grecian, Hong Kong, China*†	29.80	756.9	83	28.3		e.			6		8		var.	sq'lls	sq'lls			
Bk. Hattie G. McFarland, N. 40° 25′, W. 70° 15′*†	30.00	762.0	68	20.0		sw.			3		3		sw.	0	0	short	sw.	clear.
S. Hedwig, N. 36° 39′, E. 14° 25′	30.04	762.9	78.3	25.7	80	w.			4		0			0	0	long	w.	fine.
Bk. Horace Scudder, N. 34° 04′, W. 61° 25′†	30.32	770.1	78	25.6		w.			3		2		w.	0	0	sm'h	w.	blue sky.
S. Ivy, N. 12° 00′, W. 124° 30′†	30.15	765.8	78	25.6		nne.			2		10		e.	5 h'r	5 h'r	cross	ssw.	rainy.
S. Ismir, S. 47° 44′, E. 47° 58′†	29.82	757.4				nnw.			6		10			5 h'r	5 h'r	r'gh	nnw.	rainy.
Schr. Jennie N. Huddell, N. 39° 05′, W. 74° 30′†	30.07	763.8	72	22.2	100	ssw.			3		2		sw.	0	0	short	sse.	hazy.
Bk. Johanne, N. 59° 48′, W. 14° 00′*†	29.62	752.3	60	15.6		e.			3		8		se.	0	0	mod	ese	threatening
Schr. John L. Thomas, Vivorilla Cays, C. A*†	30.12	765.0				ene.			1		2		ese.	0	0			clear.
Bg. John Wesley, N. 29° 33′ W. 70° 06′†	30.26	768.6				sse.			2		4		s.	0	0	mod	sse.	fair.
Bk. Joseph A. Ropes, N. 7° 19′, W. 27° 43′*†	30.12	765.0	81	27.2	87	s.			4		4		s.	0	0	mod	s.	fair.
Bkt. Josephine, N. 37° 45′ W. 74° 04′†	29.99	761.7	77	25.0	77	sw.			6		0			0	0	mod.	sw.	hazy.
Bkt. Kryolith, N. 52° 49′ W. 51° 12′*†	29.79	756.7				nnw.			4		10					hv'y	ese.	hazy.
S. S. Lamperis, N. 33° 41′, E. 23° 12′*	29.79	756.7	76.0	24.4	86	wnw.			6		0					4		misty.
Light House Tender, Laurel, Key West, Florida†	30.16	766.1	82	27.8		e.			2		8		se.	0	0			cloudy.
Bk. Liberia, N. 10° 05′, W. 21° 12′*	29.96	761.0	80	26.7	95	nw.			4		6		nw.	0	0			
S. S. Malabar, N. 47° 37′, W. 152° 00′*†	30.17	766.3				var.			1		0			0	0	sm'h		clear.
S. Orealla, N. 37° 38′, W. 64° 05′*†	30.04	763.0	80	26.7		ssw.			4		1		sw.	shr's	shr's	sm'h	s.	cloudy.
S. Paramita, S. 18° 18′ W. 98° 44′†	29.97	761.2	73	22.8		wnw.			2		1		w.	0	0	small	ne.	clear.
S. S. Ponca, N. 15° 42, W. 62° 35′†	30.08	764.0	86	30.0		ene.			2		6		e.	4 h'r	4 h'r	mod.	e.	fair.
S. S. Sunbeam, Odessa, Russia	29.63	752.6	84	28.9	61	sse.			2		0							blue sky
S. Sovereign of the Sea, N. 7° 32′, W. 27° 54′*†	30.00	762.0	82	27.8	74	s.			4		6?		s.	1 h'r	1 h'r	long	s.	clear ?
Bg. Teneriffe, Cardenas, Cuba, W. I.	30.07	763.7				e.			2									
Bk. Truro, N. 45° 00′, W. 31° 10′*†	29.83	757.7				ssw.			4		7		sw.	3 h'r	3 h'r	mod	cross	clearing.
U.S.F.C.S.S. Fish Hawk, Wilmington, Del†	30.16	766.1	87	30.6	91	wsw.			2		3		sw.	0	0			clear.
Schr Viola Reppard, Baltimore, Md†	29.90	759.4	83	28.3		calm			0		0			0	0			hazy.
Bk. Wm. Wilcox, S. 30° 15′ W 47° 06′*†	30.40	772.1	71	21.7		calm			0		5		calm	0	0	mod.	nne.	fair.
S. Wm. Woodbury, N. 50° 16′ W. 1° 31′*	29.50	749.3	65	18.3	68	s.			6		8		sw.	mist	mist	sm'h	sw.	foggy.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 12, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	30.11	764.7	77.7	25.4	82	n.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Bouvier.
Algiers	.....	.....	30.10	764.4	87.1	30.6	21	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	30.04	763.0	88.2	31.2	57	nnw.	.....	.....	5	.....	3	.....	.....	0	0	pretty fair	Fonfrède.
Tunis	.....	.....	30.03	762.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.15	765.9	90.7	32.6	24	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	Perès.
Tebessa	.....	.....	30.10	764.6	87.4	30.8	25	nw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Derché.
Geriville	.....	.....	.....	.....	98.6	37.0	6	wnw.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Lonchamp.
Laghouat	.....	.....	30.15	765.7	100.4	38.0	37	w.	.....	.....	3	.....	0?	.....	.....	0	0	very fair?	Abraham.
Biskra	.....	.....	30.12	765.0	99.7	37.6	31	se.	.....	.....	1	.....	0?	.....	.....	0	0	very fair?	Malan.
Australian.																			
Melbourne, Victoria	29.55	750.6	29.64	752.8	51.0	10.6	69	n.	16	7.2	.....	.....	6	.....	.....	0.06	1.5	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.10	739.0	29.61	752.1	80.6	27.0	49	sw.	.....	.....	4	.....	5	.....	.....	0.539	13.7	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.91	734.3	29.63	752.7	77.5	25.3	67	sw.	7.4	3.3	.....	.....	10	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.89	733.7	29.72	754.9	75.9	24.4	45	s.	.....	.....	2	.....	10 ks	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.44	722.3	29.63	752.5	72.1	22.3	81	sw.	.....	.....	2	.....	9	.....	.....	0	0	thunder	Andreas Rosplini.
Hermannstadt	28.34	719.9	29.69	754.2	76.1	24.5	48	w.	.....	.....	4	.....	0	.....	.....	0	0	.....	Prof. A. Gottschling
Kremsmunster, Obs'y	28.46	722.9	29.78	756.4	57.2	14.0	90	wsw.	.....	.....	3	.....	10	.....	.....	0.236	6.0	raining	The Staff.
Lemberg	28.94	735.0	29.89	759.1	72.5	22.5	54	sw.	.....	.....	1	.....	2	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.60	751.7	29.70	754.4	73.6	23.1	61	se.	.....	.....	2	.....	10	.....	.....	0.276	7.0	.....	I. R. Hydrographic Office.
Szathmar	29.32	744.7	29.76	755.9	76.6	24.8	45	se.	.....	.....	2	.....	8	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.44	747.7	29.70	754.4	79.2	26.2	35	s.	.....	.....	3	.....	5	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.62	752.3	29.72	754.9	74.5	23.6	61	s.	.....	.....	1	.....	10	.....	.....	0.071	1.8	.....	Royal Academy.
Vienna	29.00	736.5	29.69	754.1	66.6	19.2	67	w.	.....	.....	5	.....	10	.....	.....	0.386	9.8	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.68	753.9	29.78	756.4	59.0	15.0	73	ese.	7	3.1	.....	.....	6	.....	.....	0.010	0.3	d. clouds	W. Boswell
Armagh, Observatory	29.65	753.1	29.88	758.9	63.0	17.2	69	wnw.	6	2.7	.....	.....	7	.....	.....	.....	.....	d. clouds	S. Gall.
Bidston, Liverpool Obs'y	.....	.....	29.86	758.4	60.2	15.7	87	w.	29	13.0	.....	.....	3	.....	.....	.....	.....	d clouds	John Hartnup.
Bolton, Sharples	29.31	744.5	29.83	757.7	62.5	16.9	75	wnw.	18	8.0	.....	.....	3	.....	.....	.....	.....	d. clouds.	Thomas Mackereth, [ton.
Bradford, Yorkshire	29.40	746.7	29.80	756.9	67.6	19.8	44	sw.	.....	.....	3	.....	6	.....	.....	0.01	0.3	d. clouds	McLandsborough & Pres-
Bridgetown, Barbadoes	30.04	763.0	30.07	763.8	81.0	27.2	78	ne.	.....	.....	3	.....	6	.....	.....	.....	.....	gloomy	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	29.80	756.9	65.0	18.3	75	nw.	.....	.....	3.0	.....	8	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.69	754.1	29.81	757.2	63.4	17.4	67	nw.	.....	.....	1	.....	6	.....	.....	blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.82	757.4	30.05	763.3	63.3	17.4	69	wnw.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.95	709.9	30.17	766.3	63.1	17.3	52	e.	.....	.....	2	.....	1	.....	.....	.....	.....	blue sky	Pvt. Lane, A.H.C
Free Town, Sierra Leone	29.69	754.1	29.92	760.0	81.0	27.2	91	sw.	.....	.....	1	.....	6	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.00	762.0	30.05	763.3	82.8	28.2	72	sw.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.58	751.3	29.78	756.4	66.3	19.1	52	w.	.....	.....	4	.....	4	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.66	753.4	29.83	757.7	68.0	20.0	62	nnw.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.73	755.1	30.02	762.5	63.0	17.2	71	wnw.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.81	757.2	29.85	758.2	65.8	18.8	52	nw	10	4.5	.....	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.57	751.1	29.81	757.2	65.8	18.8	56	nw.	.....	.....	3	.....	2	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.83	757.7	29.90	759.4	82.6	28.1	51	nw.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.16	766.1	30.21	767.3	85.0	29.4	79	se.	.....	.....	3	.....	5	.....	.....	blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.35	745.5	29.86	758.4	62.9	17.2	65	w.	.....	.....	5	.....	5	.....	.....	.....	.....	d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.64	752.8	29.87	758.7	65.0	18.3	73	wnw.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	The Staff.
Plymouth	29.91	759.7	29.98	761.5	68.5	20.3	64	wnw.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.63	752.6	59.2	15.1	67	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.70	754.4	29.76	755.9	81.2	27.3	58	nne.	.....	.....	2	.....	9	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.58	751.3	29.85	758.2	62.8	17.1	90	wsw.	.....	.....	1	.....	10	.....	.....	0.27	6.9	thnd'r storm	W. F. Cooper.
Silloth Rectory	29.77	756.1	29.80	756.9	67.2	19.6	66	w.	.....	.....	2	.....	2	.....	.....	0.170	4.3	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.86	758.4	64.0	17.8	73	w.	17	7.6	.....	.....	7	.....	.....	.....	.....	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.66	753.4	29.87	758.7	68.8	20.4	60	nw.	.....	.....	3	.....	5	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.04	763.0	30.05	763.3	68	20.0	69	nw.	.....	.....	6	.....	6	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.96	761.0	29.98	761.5	58.4	14.7	84	sw.	19	8.5	.....	.....	10	.....	.....	blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.69	754.1	29.73	755.1	65	18.3	82	sw.	12	5.4	.....	0	0	.....	.....	0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*.	29.66	753.4	29.72	754.9	68	20.0	84	w.	7	3.1	.....	0	0	.....	.....	0.28	7.1	clear	G. A. Blair.
Father Point, Quebec*	29.61	752.1	29.64	752.8	61	16.1	84	w.	16	7.2	.....	2 c	0	w.	.....	0.12	3.0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.92	734.6	29.73	755.1	53	11.7	86	nw.	17	7.6	.....	5 k	0	n.	.....	0.310	7.9	fair	James Stewart.
Halifax, N. S*.	29.68	753.9	29.80	756.9	72	22.2	53	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Allison.
Kingston, Ontario*	29.50	749.3	29.82	757.4	65	18.3	78	sw.	9	4.0	.....	3 c	0	w.	.....	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.58	751.3	29.77	756.1	68	20.0	70	w.	14	6.3	.....	2 c	0	w.	.....	0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.06	738.1	29.73	755.1	66	18.9	63	sw.	13	5.8	.....	2 cs	0	sw.	.....	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.18	741.2	29.85	758.2	64	17.8	94	sw.	6	2.7	.....	3 k	0	sw.	.....	0	0	fair	H. Morgan.
Port Stanley, Ontario	29.23	742.4	29.86	758.4	64	17.8	84	w.	6	2.7	.....	.....	8 ks	.....	sw.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.45	748.0	29.76	755.9	64	17.8	84	w.	.....	.....	1	0	2 s	.....	w.	0.04	1.0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.24	742.7	29.69	754.1	61	16.1	90	e.	1	0.4	.....	2 c	0	w.	.....	0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.06	738.1	29.74	755.4	65	18.3	97	sw.	15	6.7	.....	.....	10 s	.....	.....	0	0	cloudy	
St. Andrews, N. B	29.74	755.4	29.80	756.9	69	20.6	75	wnw.	3	1.3	.....	0	0	.....	.....	0	0	clear	
Sydney, C. B*	29.69	754.1	29.75	755.6	68	20.0	66	w.	17	7.6	.....	0	0	.....	.....	0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.47	748.5	29.84	757.9	65	18.3	78	sw.	6	2.7	.....	5 cs	5 s	w.	w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.80	756.9	29.87	758.7	57	13.9	96	sw.	1	0.4	.....	2 ck	0	w.	.....	0	c	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
Mount Forest	28.43	722.1	29.87	758.7	59.0	15.0	76	w.	.....	.....	3	10 n; c	10 n; c	wsw.	.....	0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.93?	760.2?	30.18?	766.6?	62?	16.7?	94	sw.	1	0.4	.....	5 k	5 s	.....	.....	0.25	6.3	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.30	769.6	30.33	770.4	62.0	16.7	72	w.	16.4	7.3	.....	0	0	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.27	768.8	30.31	769.9	59.8	15.4	71	nw.	9	4.0	.....	2	6	.....	.....	0.430	10.9	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.84	757.9	29.87	758.6	78.8	26.0	92	se.	11.6	5.2			2			0	0	clear	M. Marc Decheyrens, S.J.
DANISH.																			
Copenhagen	29.47	748.6	29.52	749.8	66.6	19.2	62	calm	0	0			8						Oversergent Fischer.
Fanöe	29.52	749.9	29.54	750.4	65.8	18.8	68	nne.			6		3						Overloerer Lauridsen
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.80	756.9	29.84	758.0	50.7	10.4	84	se.			2		0						A. O. Thorlacius.
Thorshavn	29.78	756.3	29.81	757.2	57.4	14.1	85	calm	0	0			10						Overloerer Bergh.
Vestervig	29.47	748.6	29.56	750.9	62.4	16.9	75	wnw.			4		2						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.56	750.7	30.19	766.9	68.7	20.4	55	s.			2		k;kn		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.42	747.2	29.97	761.2	64.0	17.8	69	nw.			4		kn		ne.	0.43	11.		M. Nicot, Director.
Arras, Engineer School	29.92	760.0	30.18	766.5	62.6	17.0	61	nw.			4		k			0.31	8.		M. Fénéon, Command't.
Avignon, Normal School	29.92	760.0	30.00	762.0	69.8	21	72	nw.			2		5		nw.	0.20	5.	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.32	744.6	29.87	758.6	56.3	13.5	81	nw.			4		10		w.	0.815	20.7	covered.	M. Saillard, Director.
Beauvais, Normal School	29.61	752.2	29.88	758.9	62.8	17.1	64	nw.			3		8		nw.	0.299	7.6	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.99	736.4	29.87	758.6	56.8	13.8	89	sse.			3		10		sw.	0.106	2.7	raining	M. Gobin, Director.
Bordeaux, Observatory	29.91	759.7	30.17	766.3	66.4	19.1	49	nw.			1		8		nw.	0.150	3.8	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.39	746.4	29.93	760.1	62.6	17	70	w.			2		k		w.	0.724	18.4		M. Malet, Director.
Brest, Naval Observatory	29.89	759.1	30.13	765.3	66.9	19.4	73	wnw.			2		6		wnw.	0.079	2.0		M. de Kermaree, Dir.
Caen, Normal School	29.99	761.7	30.00	763.6	61.0	16.1	76	w.			1		8		w.	0.43	11.	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.40	746.7	29.71	754.7	59.5	15.3	91	sw.			4		10	w.	nw.	0.394	10.0	covered	M. Jadot, Director.
Charleville, Normal School	29.15	740.5	29.65	753.2	59.7	15.4	87	nnw.			1		10			0.39	10.	raining	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.69	728.8	30.02	762.5	65.5	18.6	53	wnw.			3		5			0.067	1.7	⅛ covered	M. Alluard, Director.
Cluny, Normal School	29.04	737.6	29.87	758.7	57.6	14.2	76	w.			4		7		w.	0.047	1.2		M. de Villemontée, Dir.
Commercy, Normal School	28.87	733.2	29.71	754.6	57.7	14.3	89	wsw.			3		10 kn	wsw.	wsw.	0.575	14.6	raining	Dr. Coulet, Director.
Gap, Normal School	27.46	697.4	29.93	760.3	64.8	18.2	35	n.			6		6		n.	0	0		M. Jeangirard, Director.
Grénsque, du Rhone	28.82	731.9	29.91	759.6	77.7	25.4	39	nw.			4	3	3		nw.	0.185	4.7		M. Kina, Director.
Grenoble, Normal School	29.28	743.8	30.04	763.1	59.0	15	76	nw.			1		10 n			0.20	5.	raining	M. Ablard, Director.
Guéret, Normal School	28.49	723.6	30.06	763.4	59.9	15.5	76	w.			4		8 kn		w.	0.055	1.4	very cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.80	757.0	30.07	763.8	64.4	18	71	nw.			2	0	5		nw.	0.098	2.5	stormy	M. Ollitrault, Director.
Lescar, Normal School	29.58	751.2	30.13	765.2	72.3	22.4	41	sw.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.03	762.7	30.13	765.3	63.5	17.5	70	w			3		5		nw.	0.039	1.0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.00	736.5	30.05	763.2	59.9	15.5	58	nw.			2		10 n		nw.	0.138	3.5	covered	M. André, Director.
Mans, Normal School	29.67	753.6	29.97	761.3	64.6	18.1	67	nnw.			3		5		nw.	0.217	5.5	cloudy	M. Piboen, Director.
Marseille, Observatory	29.71	754.6	29.98	761.4	72.3	22.4	33	wnw.			4		5		nw.	0.181	4.6		M. Stephan, Director.
Montlouis	24.99	632.4	29.74	755.4	64.4	18.0	33	sw.	11.2	5.0			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.85	758.3	29.98	761.4	72.3	22.4	53	nw.			4		2	nw.		0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	28.97	735.8	29.74	755.3	58.3	14.6	82	s.			2		kn		w.	0.461	11.7		M. Hasse, Director
Nantes, Observatory	29.97	761.1	30.13	765.2	69.1	20.6	58	wnw.			2–3		8 k;kn		wnw.	0.075	1.9		M. Larocque, Director.
Perpignan, Observatory	29.97	761.2	30.08	763.9	73.4	23.0	37	nw.	31.8	14.2		c	1		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.39	543.4			42.4	5.8		w.			1		0			0.323	8.2	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.93	734.8	29.95	760.7	68.0	20	47	sw.			1		2			0	0	slightly cld'y	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.10	637.5			41.0	5.0	99	w.			8		8		wnw.	0.173	4.4	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.10	764.0	30.13	765.4	69.8	21.0	100	w			2		2	s.	s.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.91	759.8	30.12	765.1	66.6	19.2	64	wsw.			2		8		ese.	0.12	3.	very cloudy	M. Mouillot, Director.
Rodez, Normal School	28.07	713.0	30.21	767.4	58.8	14.9	66	nw.			2		1		se.	0.370	9.4	clear	M. Seger, Director.
Rouen, Normal School	29.84	758.0	29.89	759.2	64.0	17.8	70	nnw.			4		8	nnw.		0.331	8.4	very cloudy.	M. Brotier.
Saint Maur, Observatory	29.74	755.3	29.90	759.5	58.3	14.6	75	wnw.			2		10		wnw.	0.248	6.3		M. Renou, Director.
Toulouse, Observatory	29.48	748.8	30.21	767.3	70.2	21.2	45	w.			4		8		nw.	0.071	1.8	very cloudy	M. Baillaud, Director.
Tours	29.47	748.4	30.04	762.9	67.6	19.8	57	wnw.			2		5	n.	wnw.	0.181	4.6	cloudy	M. de Tastes.
Versailles, Observatory	29.42	747.3	29.91	759.8	60.1	15.6	73	nw.			6					0.287	7.3		Dr. A. Berigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.61	752.1	29.90	759.5	57.4	14.1	83	wnw.			3		10		wnw.	0.335	8.5		M. Marié Davy, Director
GERMAN.																			
Bamberg	28.84	732.5	29.68	753.9	62.6	17.0	73	w.			2	0	7 k		w.	0.197	5.0	raining	Prof. Dr. Hoh.
Berlin	29.47	748.4	29.63	752.7	73.2	22.9	49	sw.			3		8			0.067	1.7		Prof. Dr. Arndt.
Breslau	29.13	739.9	29.65	753.2	75.4	24.1	41	wsw.			2		4			0	0		Royal University Obs'y.
Carlsruhe	29.26	743.3	29.69	754.1	61.9	16.6	79	sw.			10		9	sw.		0.177	4.5		Albert Senz.
Cassel	28.86	733.0	29.57	751.1	63.3	17.4	74	s.			6		8	sw.				thund'r st'm	Dr. H. Möhl.
Frankfort-on-the-Main	29.26	743.3	29.61	752.2	62.6	17.0	77	sw.			3		9			0.146	3.7		Physical Society.
Friedrichshafen	28.41	721.5	29.81	757.2	60.4	15.8	66	w.			8		10	w.		0.024	0.6		Wilhelm, Chief Tel.
Hamburg	29.41	747.0	29.50	749.4	61.9	16.6	93	wnw.			3		10	sw.		1.091	27.7	raining	E. Preller.
Kiel	29.48	748.9	29.50	749.3	63.0	17.2	84	ne.			1		10			0.748	19.0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.20	741.7	29.60	751.9	70.3	21.3	51	sw.			4		9	wsw.		0.102	2.6		H. Leppig, Asst.
Magdeburg	29.35	745.5	29.54	750.3	70.2	21.2	62	sw.			4		10 ks		w.	0.035	0.9		Dr. Assmann.
Memel	29.65	753.2	29.70	754.4	66.4	19.1	62	w.			2		0					clear	Issermann.
Munich	28.01	711.4	29.86	758.4	56.8	13.8	81	w.			2		10	sw.		0.209	5.3		Dr. C. Lang.
Neufahrwasser	29.59	751.6	29.61	752.0	75.9	24.4	43	ssw.			2		10			0	0		A. Lothes.
Neustadt, Palatinate	29.13	739.8	29.65	753.1	61.2	16.2	81	sw.			4		10			0.441	11.2		Dickuether.
Stuttgart	28.77	730.7	29.63	752.7	64.4	18.0	67	w.			6		8	w.		0.043	1.1		Prof. Dr. Schoder.
Wustrow	29.50	749.2	29.52	749.8	69.4	20.8	79	se.			2		10 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.38	746.3			88.7	31.5		ne.			1.5		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.46	748.2	29.51	749.5	80.2	26.8	95	w.	21.0	9.4			10			0.17	4.3	raining	
Deesa	28.95	735.2	29.42	747.2	77.2	25.1	94	ssw.	12.0	5.4			10	sw.		2.15	54.6	overcast	
Bombay	29.59	751.7	29.63	752.6	78.7	25.9	91	wsw.	30.0	13.4			10		w.	2.03	51.6	overcast	
Poona, Yarrowda	27.79	705.8	29.60	753.2	72.2	22.3	88	wsw.	13.0	5.8			10		w.	0.26	6.6	raining	
Trichinopoly	29.49	749.0	29.77	756.0	88.3	31.3	45	w.	5.0	2.2			10			0	0	overcast	
Bellary	28.24	717.3	29.70	754.3	81.5	27.5	61	w.	9.3	4.2			10	s.		0	0	gloomy	
Belgaum	27.19	690.6	29.75	755.5	70.1	21.2	95	sw.	13.0	5.8			8	e.	sw.	0.83	21.1	showery	
Lahore	28.74	730.0	29.47	748.4	85.0	29.4	78	ne.	2.8	1.2			10			1.20	30.5	drizzling	
Roorkee	28.57	725.6	29.44	747.7	90.8	32.7	63	ne.	6.4	2.9			4			0	0		
Agra	28.88	733.4	29.42	747.4	87.7	30.9	75	e.	7.1	3.2			3		e.	0.25	6.4	d. clouds	
Nagpur	28.52	724.3	29.56	750.7	76.7	24.8	90	sw.	7.2	3.2			10		sw.	0.18	4.6	overcast	
Jubbulpore	28.18	715.9	29.52	749.8	82.6	28.1	77	s.	3.5	1.6			8			0.02	0.5	threatening.	
Lucknow	29.12	739.7	29.49	749.0	90.1	32.3	65	calm	3.3	1.5			4		w.	0.22	5.6		
Allahabad	29.16	740.8	29.47	748.5	89.2	31.8	72	calm	1.1	0.5			0			0.98	24.9	blue sky	
Patna	29.34	745.2	29.52	749.8	86.4	30.2	79	e.	5.5	2.5			5	e.	e.	0.05	1.3	d. clouds	
Hazaribagh	27.49	698.3	29.46	748.2	83.8	28.8	68	e.	8.0	3.6			2			0.03	0.8	drizzling	
Cuttack	29.34	745.1	29.42	747.2	78.0	25.6	85	wsw.	1.7	0.8			8			2.47	62.7	d. clouds	
Calcutta, Alipore	29.43	747.4	29.45	747.9	85.4	29.7	77	sse.	16.0	7.2			8		se.	0.08	2.0	d. clouds	
Dhubri	29.39	746.5	29.50	749.4	86.1	30.1	76	calm	2.2	1.0			3	e.		0	0	d. clouds	
Chittagong	29.45	748.0	29.54	750.2	83.7	28.7	87	ssw.	4.2	1.9			8			0	0	d. clouds	
Sibsagar	29.16	740.8	29.49	749.0	92.1	33.4	66	ne.	1.6	0.7			6	w.	w.	0	0	d. clouds	
Jeypore	27.98	710.8	29.40	746.6	83.7	28.7	82	ese.	9.0	4.0			5		ese.	0.47	11.9	d. clouds	
Zanzibar, Africa	30.10	764.5			81.2	27.3	52	s.	9.4	4.2			7			0	0	gloomy	
ITALIAN.																			
Udine	29.29	744.0	29.68	753.9	65.8	18.8	87	e.	1.3	0.6			10			0.189	4.8		Prof. Giovanni Cloelig.
Milan	29.21	741.8	29.70	754.4	70.5	21.4	54	w.	8.1	3.6			4	wsw.		0.535	13.6		Prof. Schiaparelli.
Padua	29.56	750.7	29.66	753.4	66.4	19.1	79	sse.					10			0.031	0.8		Prof. Dott. Lorenzoni.
Moncalieri	28.80	731.6	29.67	753.6	74.3	23.5	29	e.	11.2	5.0			0			0.602	15.3		Prof. P. F. Denza.
Genoa	29.52	749.8	29.71	754.5	71.6	22.0	66	se.	4.9	2.2			0			0.071	1.8		Prof. G. M. Garibaldi.
Mondovi	27.85	707.4	29.68	753.9	69.6	20.9	47	ne.			4		0			0.035	0.9		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Pesaro	29.59	751.6	29.64	752.8	77.5	25.3	49	wsw.	9.8	4.4			6	w.		0	0		Prof. Luigi Guidi.
Florence	29.48	748.7	29.72	754.9	74.5	23.6	59	wsw.			2		9			0.047	1.2		Prof. Costantino Pitter
Leghorn	29.61	752.2	29.70	754.3	72.3	22.4	68	n.	3.1	1.4			10			0	0		Prof. P. Monte.
Rome	29.65	753.0	29.82	757.3	81.0	27.2	37	ssw.	12.5	5.6			5			0	0		Prof. P. S. Ferrari.
Lecce	29.55	750.6	29.79	756.7	84.0	28.9	30	ne.	7.4	3.3			1			0	0		Prof. C. de Giorgi.
Cosenza	29.01	736.9	29.86	758.5	81.0	27.2	71	w.	3.1	1.7			0			0	0		Prof. D. Conti.
Cagliari	29.71	754.6	29.89	759.3	84.4	29.1	29	nw.			4		1			0	0		Prof. A. Pacinotti.
Palermo	29.71	754.5	29.95	760.6	80.1	26.7	45	ne.	11.2	5.0			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.60	756.9	29.84	758.0	79.5	26.4	54	e.	3.8	1.7			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.34	745.3	29.85	758.1	76.8	24.9	62	w.	3.1	1.4			4	sw.		0	0		Prof. T. Brioschi.
Stelvio	22.03	559.6			37.2	2.9	61	e.			4		10			1.343	34.1	covered	Prof. P. F. Denza.
Valdobbia	22.05	560.0			43.0	6.1	70	n.			6		8			0.079	2.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.95	760.7	29.96	761.9	56.8	13.8	97	calm	0	0			0			0	0	clear	
Hiroshima, I. M. Obs'y					72.6	22.6	87	nne.	3.5	1.6			10 ck			0	0	overcast	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.82	757.4	29.99	761.7	69.6	20.9	82	nnw.	0.5	0.2		0	3 s			0	0	clear	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.78	756.4	29.98	761.3	72.3	22.4	90	calm	0	0		0	2 s			0	0	clear	S. Takehayashi.
Nemuro	30.02	762.5	30.08	764.0	56.9	13.8	86	wsw.	12.0	5.4		10	0			0	0	cloudy	
Niigata	29.97	761.2	30.00	762.0	67.2	19.6	91	ssw.	0.3	0.1			10ck;s		sw.	0.060	1.5	overcast	M. Morita.
Nobiru	30.03	762.6	30.04	763.0	64.8	18.2	86	se.	10.6	4.7			10 s			0.005	0.1	covered	H. Midzushina.
Osaka	30.00	762.0	30.02	762.5	70.5	21.4	77	ne.	1.7	0.8		0	1 s			0	0	clear	
Sapporo					61.0	16.1	90	se.	1.8	0.8			0			0	0	clear	
Tokei Obs'y, Yeddo	29.96	761.0	30.03	762.7	66.6	19.2	85	e.	7.3	3.3			10 s			0	0	cloudy	The Staff.
Wakayama	29.93	760.2	29.98	761.5	73.1	22.8	77	n.	7.2	3.2		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	30.07	763.8	30.29	769.4	69.7	20.9	58	se.	21.0	9.4		0	4 k;n		se.	0.34	8.6	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.78	603.9	30.00	761.9	57.9	14.4	96	wsw.				6 cp	1 k			0.107	2.7	cloudy	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.02	762.5	60.4	15.8	92	sse.			1	9 c	0	sw.		inap.	inap.	cloudy	Prof. M. Leal.
Mazatlan	29.80	757.0	30.06	763.6	75.0	23.9	90	e.	5.3	2.3			10 n		e.	0.039	1.0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.21	589.6	30.25	768.2	57.2	14.0	87	calm	0	0		5 k	5 kn	n.		0	0	covered	The Staff.
Morelia	24.34	618.2	30.48	774.2	57.7	14.3	67	se.			2	1	2	e.	e.	0.209	5.3	clear	M. Tena, M. D.
Orizaba	26.17	664.8	30.13	765.2	66.9	19.4	68	calm	0	0		2	1	s.	w.	0	0	clear	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.04	610.7	30.04	762.9	59.7	15.4	90	calm			0	3 c	1 ks	se.	se.	0.080	2.0	clear	M. V. de Leon, M. E
Puebla, Catholic Institute	23.49	596.5	30.27	768.9	52.9	11.6	78	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.33	618.0	30.27	768.9	66.5	19.2	74	sw.				0	7		e.	0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.65	575.4	30.27	769.0	56.5	13.6	86	sw.	5.6	2.5		9 c	1 k	w.	w.	0.426	10.8		J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.71	754.6	29.71	754.6	61.0	16.1		nw.			5					0.476	12.1		
Groningen	29.48	748.8	29.54	750.2	61.0	16.1		ne.			1					1.071	27.2		
Helder	29.59	751.6	29.59	751.6	59.4	15.2		n.			5					0.618	15.7		
Hellevoetsluis	29.61	752.2	29.61	752.2	58.3	14.6	94	nnw.			4					0.429	10.9		
Utrecht	29.52	749.9	29.57	751.1	62.6	17.0	80	wnw.			3		8			0.209	5.3	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.43	747.5	29.49	749.1	63.0	17.2	74	nw.	7	3			8			0.520	13.2		
Brono	29.26	743.3	29.30	744.3	60.4	15.8	68	s.	4	2			4			0	0		
Christiania	29.30	744.1	29.44	747.7	64.4	18.0	58	nne.	4	2			10			0.201	5.1		
Gjesvær	29.57	751.0	29.59	751.6	70.5	21.4		ene.			4		2						
Lodingen	29.35	745.4	29.39	746.6	61.2	16.2	65	ene.			4		10					raining	
PORTUGUESE.																			
Angra, Azores					71.6	22.0	86	w.	13.6	6.1			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.11	739.3	30.07	763.7	80.6	27.0	39	sse.	1.3	0.6			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.13	765.4	30.22	767.6	73.4	23.0	70	sw.	2.5	1.1			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.81	757.2	30.17	766.2	72.0	22.2	52	nnw.	7.4	3.3			1			0	0		The Staff.
Ponta Delgada, Azores	30.20	767.1	30.27	768.9	75.2	24.0	78	sw.	9.8	4.4			4			0	0		
Saint Paul de Loando	29.87	758.7	30.08	763.9	70.9	21.6	77	n.	0.7	0.3			8			0	0		
Serra da Estrella	25.46	646.6	30.08	763.9	62.1	16.7	54	ese.	6.3	2.8			0			0.402	10.2		
RUSSIAN.																			
Akmolinski	28.47	723.1	29.52	749.7	57.6	14.2	82	nw.	16	7			10 n			0	0		Major K. Lasarew.
Archangel	29.65	753.0	29.67	753.5	68.5	20.3	81	ese.	13	6			10			0.146	3.7	raining	Capt. Sselliwerstow.
Astrakhan	29.93	760.3	29.85	758.2	84.7	29.3	35	se.	11	5		cs	3 s			0	0	light clouds	Capt. Wisganow.
Barnaul	28.93	734.7	29.39	746.6	72.3	22.4	53	wsw.	13	6			9			0.154	3.9		Meteorological Obs'y.
Dorpat	29.32	744.7	29.55	750.6	66.7	19.3	57	wsw.	11	5			9 k			0	0		Observatory.
Ekaterinburg	28.98	736.2	29.91	759.7	68.7	20.4	31	n.	11	5		0	0			0	0		Meteorological Obs'y.
Irkutsk	27.95	709.8	29.47	748.5	80.8	27.1	71	calm	0	0		cs	5 s			0	0		
Kasan	29.67	753.7	29.93	760.1	78.8	26.0	43	s.	4	2		0	1 k			0	0		Observatory.
Kertch	29.69	754.1	29.71	754.6	80.1	26.7	49	nw.	20	9		3 cs	0			0	0		Lagorio & Sastyres.
Kieff	29.13	739.8	29.73	755.2	71.1	21.7	48	nw.	7	3		ck	5 ks			0	0		Observatory.
Lugan	29.36	745.8	29.55	750.6	89.4	31.9	51	ssw.	13	6			6			0.110	2.8		Meteorological Obs'y
Moscow	29.08	738.7	29.54	750.2	65.7	18.7	95	se.	7.8	3.5			10 s					raining	Meteorological Obs'y.
Nikolaiev	29.74	755.5	29.82	757.3	81.0	27.2	47	nnw.	9	4		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor.																			Lieut. Iwanow.
Pekin, China	29.57	751.1	29.71	754.7	69.4	20.8	93	calm	0	0			9 n			1.122	28.5	raining	Physical Observatory
St. Petersburg	29.45	748.1	29.47	748.5	57.2	14.0	81	nw.	18	8			10 n			0.516	13.1	light rain	Central Physical Obs'y
Semipalatinsk	28.82	732.1	29.43	747.5	80.6	27.0	39	nw.	18	8			4			0.012	0.3		Major Lasarew.
Tashkend, Laboratory	28.15	715.0	29.60	751.7	90.3	32.4	41	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.29	718.6	29.60	751.7	95.2	35.1	32	se.	2	1		0	1 s			0	0		Physical Observatory
Vladivostock	29.89	759.3	29.96	761.0	61.0	16.1	96	se.	4	2		0	8 n						
Warsaw	29.24	742.6	29.63	752.7	77.7	25.4	41	wsw.	9	4			9 k						Astronomical Obs'y
Wilna	29.26	743.1	29.66	753.3	69.1	20.6	53	w.	4	2			7						Berg, Assistant.
Yeniseisk	29.21	741.9	29.48	748.8	66.9	19.4	94	sw.	4	2			4			0.315	8.0	thnd'r storm	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.92	760.0	30.02	762.5	76.3	24.6	59	s.	4.3	1.9			2						Antonio Rave, Director.
Bilbao, Met. Obs'y	30.20	767.0	30.26	768.5	73.4	23.0	50	nw.	5.1	2.3		3	5	nw.		0.094	2.4	almost cov	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.24	691.9	30.13	765.4	64.8	18.2	53	ne.	11.2	5.0			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.90	708.7	30.03	762.7	81.7	27.6	40	n.	4.3	1.9		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director.
Santiago, Met. Obs'y	29.27	743.4	30.15	765.9	67.1	19.5	62	ne	11.9	5.3			0			0.004	0.1	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.																			Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.1	29.91	759.6	82.4	28.0	73	ssw.	13.2	5.9		1 c	8 ck		wsw.	0.079	2.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.96	761.0	30.06	763.4	78.6	25.9	63	vnw.	5.7	2.5		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.08	764.0	30.17	766.3	84.2	29.0	78	e.	7.2	3.2		2 s	3 kn	e.	e.	0	0		Manuel Maese.
Tuguegarao, Philippine Id's	29.75	755.6	29.89	759.2	79.7	26.5	82	s.	2.2	1.0			10 kn		se.	inap.	inap.	dull	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.45	748.1	29.49	749.1	56.5	13.6	89	se.			2		10			0.362	9.2	raining	
Umea	29.32	744.6	29.37	745.9	52.2	11.2	93	se.			4		10			0.535	13.6		
Hernosand	29.22	742.3	29.28	743.6	56.8	13.8	94	w.			2		10			0.870	22.1		
Stockholm	29.25	742.9	29.43	747.4	65.1	18.4	54	wsw.			4		9			0.083	2.1		
Wisby	29.44	747.8	29.50	749.3	66.6	19.2	61	wsw.			4		0			0.043	1.1		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Swedish—Continued.																			
Sub-series.																			
Upsala	29.28	743.8	29.37	746.0	61.3	16.3	70	wsw.	12.1	5.4			10		sw.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.59?	726.2?	30.01?	762.3?	55.2	12.9	83	ssw.			6					0.520	13.2	raining	The Observatory
Scottish.																			
Monach Lt			29.77	756.1	64	17.8	94	calm			0	0	0			0	0	clear	J. Youngclause.
North Unst			29.74	755.4				nw.			4	3	6	nw.					
Turkish.																			
Constantinople			29.82	757.4	73.6	23.1	66	nne.	21	9.5			8		n.	0	0		The Observatory.
Valona			29.93	760.3	81.0	27.2		sw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.62	752.4	86.0	30.0	63	sw.			3	0	2 s		sw.	0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.85	758.2	29.93	760.2	74.5	23.6	60	s.	3	1.3		3 cs	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.08	738.6	29.72	754.9	63	17.2	68	sw.	12	5.4		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.08	637.0	29.82	757.4	57	13.9	42	ne.	5	2.2		0	0			0	0*	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	27.56	700.0	30.29	769.4	46	7.8	71	sw.	6	2.7		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.90	734.0	30.05	763.3	71.5	21.9	90	sw.	9	4.0			10 s			0.07	1.8	threatening.	H. Hall.
Atlantic City, New Jersey	29.96	761.0	29.97	761.2	72	22.2	90	sw.	5	2.2		9 ck	0	calm		0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.89	759.2	30.08	764.0	75.0	23.9	84	s.	4	1.8		2 k	0	sw.		0.72	18.3	clear	John Healy.
Baltimore, Maryland	29.95	760.7	30.00	762.0	79	26.1	69	n.	1	0.4		7 cs	hz.	nw.		0.45	11.4	fair	Robert Seyboth.
Barnegat, New Jersey	29.95	760.7	29.97	761.2	77.0	25.0	62	n.	6	2.7		7 ck	0	sw.		0	0	fair	G. A. Hill.
Bennett, Fort, Dakota	28.49	723.6	30.03	762.7	56	13.3	69	nw.	12	5.4		2 k	2 k	nw.	nw.	0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.58	700.5	30.29	769.4	45	7.2	71	n.	1	0.4		0	0			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	29.78	756.4	29.80	756.9	44.0	6.7		s.	5	2.2			10 s			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.26	717.8	29.98	761.5	54	12.2	80	nw.	20	8.9			10 s		nw.	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.92	760.0	29.95	760.7	72.8	22.7	71	nw.	4	1.8		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.32	693.9	30.04	763.0	69.3	20.7	57	n.	2	0.9		4 k	0	calm		0	0	fair	B. E. Light.
Boston, Massachusetts	29.75	755.6	29.90	759.4	75.0	23.9	58	w.	4	1.8		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.93	760.2	29.97	761.2	79.3	26.3	97	se.	8	3.6		0	4 s		se.	0	0	fair	M. McCarty.
Buffalo, New York	29.14	740.1	29.87	758.7	68.3	20.2	57	s.	12	5.4		2 cs	1 ks	sw.	sw.	0	0	clear	Wm. Finn.
Buford, Fort, Dakota	28.21	716.5	30.15	765.8	50	10.0	74	w.	17	7.6			10 s		w.	0.08	2.0	cloudy	A. H. Bell.
Burlington, Vermont	29.55	750.6	29.83	757.7	71.7	22.1	60	s.	11	4.9		7 cs	0	w.		0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.52	749.8	29.91	759.7	73.8	23.2	92	calm	0	0			10 s		w.	inap.	inap.	threatening.	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.18	690.4	29.77	756.1	69	20.6	37	se.			1	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.00	762.0	30.02	762.5	75	23.9	90	s.	6	2.7		1 k	8 s			0.36	9.1	cloudy	A. K. Alderson.
Cape May, New Jersey	30.04	763.0	30.07	763.8	74.0	23.3	90	s.	1	0.4			10 ks		sw.	inap.	inap.	cloudy	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.11	764.8	30.13	765.3	80	26.7	79	sw.	6	2.7		0	2 k		sw.	0.02	0.5	clear	F. W. Mixer.
Champaign, Illinois	29.08	738.6	29.88	758.9	70.0	21.1	71	w.	7	3.1			10 s		sw.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.02	762.5	30.07	763.8	80	26.7	79	sw.	7	3.1		4 c	0	sw.		0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.15	740.4	29.98	761.5	77.0	25.0	82	sw.	3	1.3			10 s		w.	0.34	8.6	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.18	741.2	29.98	761.5	73.5	23.1	86	s.	5	2.2			10 n		s.	0.01	0.3	light rain	B. L. Goulding.
Cheyenne, Wyoming	24.35	618.5	30.04	763.0	41.2	5.1	62	nw.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.15	740.4	29.84	757.9	67.3	19.6	80	sw.	4	1.8			10 k		w.	0.06	1.5	cloudy	J. Mitchell.
Chincoteague, Virginia	29.95	760.7	29.97	761.2	72	22.2	100	s.	6	2.7		10 cs	0			0.85	21.0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.28	743.7	29.92	760.0	70	21.1	78	e.	4	1.8		0	0			0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.19	741.4	29.91	759.7	67.3	19.6	62	se.	7	3.1		5 c	0	w.		0	0	fair	J. B. Newlin.
Coleman City, Texas	28.22	716.8	29.98	761.5	73	22.8	97	se.	2	0.9		6 c	0			0	0	fair	L. Dorman.
Columbus, Ohio	29.08	738.6	29.91	759.7	67	19.4	73	sw.	2	0.9		6 cs	0	w.		0	0	fair	D. Cuthbertson.
Concho, Texas	28.08	713.2	29.96	761.0	76	24.4	82	se.	4	1.8		0	8 s		s.	0	0	cloudy	W. W. McConihe.
Custer, Fort, Montana	27.19	690.6	30.21	767.3	45	7.2	86	nw.	3	1.3		0	0			0	0	clear	V. Verge.
Davenport, Iowa	29.26	743.2	29.89	759.2	65	18.3	84	w.	4	1.8		3 k	hz.	sw.	calm	0.02	0.5	clear	R. R. Martin.
Davis, Fort, Texas	25.21	640.3	29.85	758.2	65	18.3	75	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.41	721.6	30.12	765.0	48.2	9.0	70	n.	2	0.9		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.65	651.5	30.07	763.8	51.0	10.6	69	se.	3	1.3		3 k	0	nw.		0	0	clear	G. W. Scott.
Decatur, Texas					77	25.0	56	s.	8	3.6		3 ck	2 s	s.		0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	29.96	761.0	29.98	761.5	72	22.2	90	w.	10	4.5		8 k	2 s	w.	w.	0	0	cloudy	A. Schneider.
Denison, Texas	29.21	741.9	29.99	761.7	74.0	23.3	84	se.	6	2.7		0	0			0.04	1.0	clear	J. McGlone.
Denver, Colorado	25.66	636.5	30.07	763.8	56.5	13.6	54	n.	4	1.8		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.11	739.4	29.99	761.7	60	15.6	65	nw.	12	5.4		0	0			0.16	4.1	clear	F. W. Conrad.
Detroit, Michigan	29.18	741.2	29.87	758.7	69.8	21.0	66	sw.	7	3.1			10 s		sw.	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.60	701.0	30.10	764.5	61.0	16.1	90	n.	15	6.7		0	8 k		n.	0	0	cloudy	W. M. Mattingly.
Dubuque, Iowa	29.17	740.9	29.86	758.4	60.8	16.0	72	w.	5	2.2		0	0			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	28.97	735.8	29.69	754.1	55	12.8	80	nw.	6	2.7			10 s		nw.	0.08	2.0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.17	740.9	29.96	761.0	78.0	25.6	76	se.	4	1.8		0	7 s		se.	0	0	fair	F. Belford.
Eagle Rock, Idaho	25.49	647.4	30.04	763.0	44	6.7	58	n.	6	2.7		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.74	755.4	29.80	756.9	72.0	22.2	66	sw.	5	2.2		0	0			0.10	2.5	clear	D. C. Murphy.
Elliott, Fort, Texas	27.33	694.2	29.97	761.2	64	17.8	65	n.	16	7.2		0	0			inap.	inap.	clear	W. J. Cundall.
El Paso, Texas	26.24	666.5	29.84	757.9	71	21.7	51	ne.	3	1.3		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.18	741.2	29.90	759.4	69	20.6	66	s.	4	1.8		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.05	737.9	29.69	754.1	61	16.1	65	w.	7	3.1		0	0			0	0	clear	C. Dill.
Fredericksburg, Texas	28.29	718.6	29.99	761.7	74	23.3	87	sw.	3	1.3			10 ks		s.	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.01	762.2	30.06	763.5	83	28.3	80	sw.	12	5.4		9 c	0			0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.15	740.4	29.80	756.9	65.5	18.6	78	s.	10	4.5		10 k	0	sw.		0	0	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.26	641.6	29.83	757.7	78.8	26.0	26	nw.	22	9.8		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.03	762.7	30.05	763.3	79.0	26.1	91	sw.	16	7.2		7 k	3 ks	sw.	w.	0	0	cloudy	R. M. Crawford.
Helena, Montana	26.15	664.2	30.21	767.3	54	12.2	45	sw.	8	3.6		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.02	737.1	30.00	762.0	81.0	27.2	67	calm	0	0		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.64	727.4	29.96	761.0	55.1	12.8	69	nw.	21	9.4			10 s		nw.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.10	739.1	29.87	758.7	73	22.8	62	s.	3	1.3		4 c	hz.			0	0	fair	O. Schutze
Indianola, Texas	30.01	762.2	30.04	763.0	81.8	27.7	88	s.	14	6.3		4 cs	2 k	n.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.84	732.5	29.96	761.0	75	23.9	85	s.	2	0.9		2 ck	0			0.04	1.0	clear	J. P. Sherry.
Jacksonville, Florida	30.08	764.0	30.12	765.0	80	26.7	82	s.	6	2.7		3 cs	0			0.36	9.1	clear	J. W. Smith.
Keogh, Fort, Montana	27.79	705.9	30.20	767.1	52	11.1	69	nw.	12	5.4		2 cs	0	nw.		0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.28	743.7	29.91	759.7	66.0	18.9	73	n.	5	2.2		6 k	0	w.		inap.	inap.	fair	F. Z. Gosewisch
Key West, Florida	30.08	764.0	30.10	764.5	86.5	30.3	71	se.	2	0.9		0	5 k			0.78	19.8	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.04	763.0	30.06	763.5	78.0	25.6	82	sw.	16	7.2		2 c	4 s		nw.	0	0	fair	E. A. Beals.
Knoxville, Tennessee	28.98	736.1	29.98	761.5	71	21.7	96	calm	0	0			10 n			inap.	inap.	light rain	J. A. Cody.
La Crosse, Wisconsin	29.06	738.1	29.81	757.2	63	17.2	56	w.	6	2.7		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.09	662.7	29.83	757.7	62.5	16.9	35	n.	2	0.9		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.20	741.7	30.06	763.5	63	17.2	84	nw.	5	2.2		0	0			0.58	14.7	clear	A. W. Browne.
Lewiston, Idaho	29.37	746.0	30.18	766.6	58.5	14.7	50	ne.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.67	753.6	29.98	761.5	70	21.1	93	s.	3	1.3		0	9 s		n.	0.37	9.4	cloudy	W. U. Simons.
Los Angeles, California	29.65	753.1	30.04	763.0	57.3	14.1	80	sw.	2	0.9			10 s			0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.34	745.2	29.89	759.2	72	22.2	84	calm	0	0			10s; fg			0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.32	744.7	29.99	761.7	76.5	24.7	76	calm	0	0		3 ck	6 s		sw.	inap.	inap.	cloudy	W. R. Bushby.
Macon, Fort, North Carolina	30.05	763.3	30.06	763.5	80	26.7	88	sw.	17	7.6		7 cs	3 ks		sw.	0	0	cloudy	F. P. Chaffee.
Madison, Wisconsin	28.84	732.5	29.82	757.4	60	15.6	87	w.	10	4.5		1 ck	0	w.		0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana																			H. W. Dodge.
McKavett, Fort, Texas	27.79	705.9	29.99	761.7	75	23.9	88	e.	4	1.8			10 s			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	28.94	735.1	29.65	753.1	61	16.1	60	w.	10	4.5		0	0			0.05	1.3	clear	J. Gilligan.
Memphis, Tennessee	29.58	751.3	29.91	759.7	73	22.8	97	w.	4	1.8			10 s			1.03	26.2	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.05	737.9	29.78	756.4	62	16.7	78	w.	12	5.4		3 c	3 ks	w.	w.	0	0	fair	W. Line.

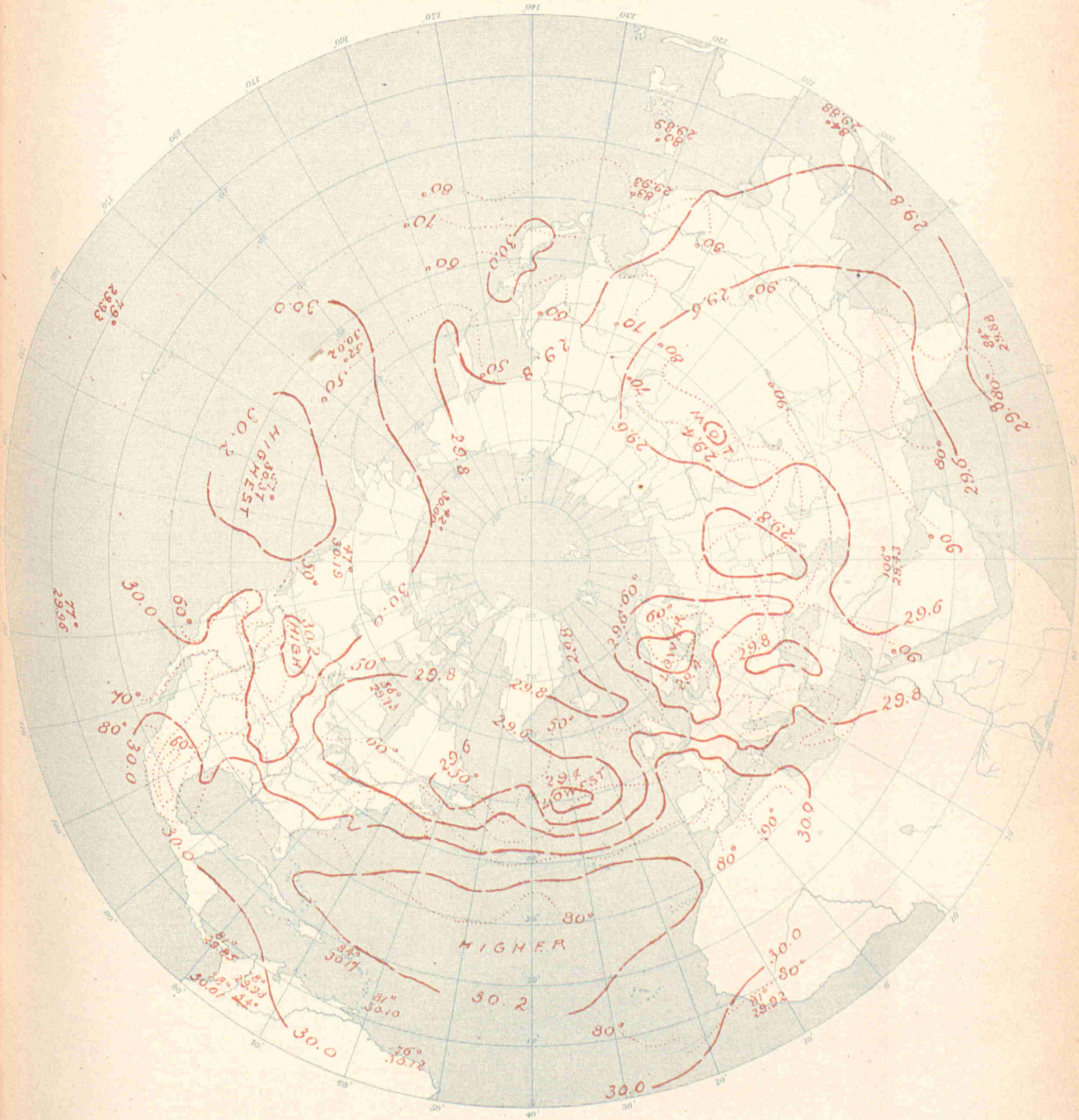
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.98	685.3	30.17	766.3	49	9.4	66	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.04	763.0	30.08	764.0	75.5	24.2	90	sw.	1	0.4	.....	3 ck	5 ks	.....	w.	inap.	inap.	cloudy	C. A. Read.
Montgomery, Alabama	29.83	757.7	30.05	763.3	74.6	23.7	92	sw.	8	3.6	.....	.....	10 n	.....	w.	2.23	56.6	heavy rain	J. B. McLaughlin.
Moorhead, Minnesota	28.86	733.0	29.82	757.4	55	12.8	93	nw.	12	5.4	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	H. Bessaut.
Morgantown, W. Virginia	29.00	736.6	30.00	762.0	66.5	19.2	89	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.81	604.8	29.88	758.9	45.0	7.2	93	nw.	40	17.9	.....	3 cs	sk.	nw.	.....	0.03	0.8	clear	J. G. Linsley
Nashville, Tennessee	29.39	746.5	29.91	759.7	73.0	22.8	90	se.	5	2.2	.....	.....	10 n	.....	s.	0.42	10.7	thund'r st'm	L. N. Jesunofsky.
New Haven, Connecticut	29.84	757.9	29.95	760.7	74	23.3	55	n.	1	0.4	.....	0	hz	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	29.91	759.7	29.96	761.0	75	23.9	50	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.01	762.2	30.06	763.5	80.0	26.7	82	sw.	5	2.2	.....	6 c	3 ks	w.	sw.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	29.89	759.2	29.94	760.5	75.7	24.3	70	sw.	1	0.4	.....	1 c	0	w.	.....	0	0	clear	W. McGillivray.
New York, New York	29.80	756.9	29.97	761.2	73	22.8	71	w.	2	0.9	.....	2 cs	0	w.	.....	inap.	inap.	clear	J. B. Merrill.
Norfolk, Virginia	29.98	761.5	30.01	762.2	78	25.6	88	sw.	6	2.7	.....	0	9 ks	.....	w.	0.41	10.4	cloudy	H. L. Kemp.
North Platte, Nebraska	27.32	693.9	30.12	765.0	57.6	14.2	63	w.	4	1.8	.....	0	5 s	.....	w.	0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.04	763.0	30.08	764.0	48.0	8.9	77	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Ogalamie, Pt. Barrow, Alas.	29.98	761.5	30.00	762.0	42.3	5.7	100	sw.	16	7.2	.....	.....	9 s	.....	sw.	0	0	cloudy	P. H. Ray.
Omaha, Nebraska	28.93	734.8	30.06	763.5	61.8	16.6	67	w.	12	5.4	.....	hz.	0	.....	.....	0.51	13.0	clear	A. Pollak.
Oswego, New York	29.54	750.3	29.86	758.4	72.0	22.2	53	sw.	6	2.7	.....	3 c	0	sw.	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.50	749.3	30.04	763.0	78.5	25.8	88	s.	8	3.6	.....	9 ck	0	w.	.....	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.05	763.3	30.08	764.0	76.7	24.8	90	sw.	6	2.7	.....	.....	10 s	.....	w.	2.33	59.2	cloudy	M. McGauran.
Philadelphia, Pa.	29.89	759.2	29.99	761.7	80	26.7	51	sw.	4	1.8	.....	5cs;ck	hz.	w.;sw.	.....	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	18.09	459.5	29.87	758.7	32	0.0	92	w.	14	6.3	.....	.....	fg.	.....	.....	0	0	dense fog	L. M. Dey.
Pioche, Nevada	24.21	614.9	29.94	760.5	65.0	18.3	16	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.16	740.7	29.95	760.7	65.3	18.5	84	calm	0	0	.....	6 ck	0	w.	.....	0	0	fair	J. H. Bryce.
Poplar River, Montana	28.18	715.8	.....	.....	.....	.....	.....	nw.	.....	.....	1	10 k	0	.....	.....	0	0	cloudy	W. D. Maxwell.
Port Eads, Louisiana	30.10	764.5	30.11	764.8	80.5	26.9	82	sw.	12	5.4	.....	.....	10 s	.....	.....	1.51	38.4	cloudy	M. Hermann.
Port Huron, Michigan	29.16	740.7	29.82	757.4	65.2	18.4	70	sw.	2	0.9	.....	.....	10 s	.....	sw.	0	0	cloudy	W. O. Bailey.
Portland, Maine	29.81	757.2	29.86	758.4	73	22.8	57	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.96	761.0	30.02	762.	62.0	16.7	60	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.87	631.7	29.86	758.4	62	16.7	46	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.88	758.9	29.91	759.7	74.0	23.3	68	w.	5	2.2	.....	3 cs	0	.....	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.12	765.0	30.13	765.3	80	26.7	74	e	5	2.2	.....	0	2 k	.....	calm	inap.	inap.	clear	W. J. Evans.
Red Bluff, California	29.55	750.6	29.91	759.7	76.8	24.9	37	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.76	755.9	29.99	761.7	79	26.1	74	se.	6	2.7	.....	1 c	0	calm	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.22	742.2	29.87	758.7	67	19.4	59	sw.	14	6.3	.....	7 c	hz.	w.	.....	0	0	fair	E. W. McGann.
Roseburg, Oregon	29.41	747.0	29.95	760.7	55	12.8	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.84	757.9	29.91	759.7	66.5	19.2	59	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.33	745.0	29.91	759.7	73.5	23.1	73	n.	9	4.0	.....	.....	10 s	.....	w.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	28.94	735.1	29.78	756.4	56	13.3	74	w.	10	4.5	.....	0	0	.....	.....	0.03	0.8	clear	P. F. Lyons
St. Vincent, Minnesota	28.98	736.1	29.82	757.4	53	11.7	86	nw.	17	7.6	.....	.....	10 s	.....	nw.	0.16	4.1	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.80	655.3	29.98	761.5	61	16.1	48	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.32	744.7	30.00	762.0	77.5	25.3	85	calm	0	0	.....	10 ck	0	se.	.....	0	0	cloudy	T. J. Kenan.
San Diego, California	29.92	760.0	29.99	761.7	61.3	16.3	83	n.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.22	742.2	29.88	758.9	68.2	20.1	66	nw.	4	1.8	.....	5 cs	0	.....	.....	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	29.93	760.2	29.96	761.0	73.0	22.8	76	w.	6	2.7	.....	1 c	0	w.	.....	0.02	0.5	clear	B. A. Blundon.
San Francisco, California	29.95	760.7	30.02	762.5	54	12.2	93	sw.	8	3.6	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.38	593.8	29.88	758.9	62	16.7	42	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.99	761.7	30.08	764.0	80	26.7	77	sw	8	3.6	.....	6 c	0	.....	.....	0.07	1.8	fair	H. W. Ford.
Shaw, Fort, Montana	26.77	679.9	30.28	769.1	39	3.9	82	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.78	756.4	30.01	762.2	77	25.0	85	nw.	6	2.7	.....	0	9 s	.....	nw.	0.56	14.2	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.80	731.5	30.00	762.0	71.5	21.9	83	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Silver City, New Mexico	24.41	620.0	29.87	758.7	61	16.1	46	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	30.13	765.3	30.19	766.8	46.6	8.1	88	ne.	5	2.2	.....	6 ck	0	.....	.....	0.06	1.5	fair	J. J. McLean.
Smith, Fort, Arkansas	29.55	750.6	30.01	762.2	69.5	20.8	84	n.	2	0.9	.....	0	6 ks	.....	w.	0.27	6.9	fair	J. B. Campbell.
Smithville, North Carolina	30.02	762.5	30.04	763.0	80	26.7	82	w.	10	4.5	.....	6 k	0	sw.	.....	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.22	716.8	30.20	767.1	51	10.6	74	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.24	742.7	29.90	759.4	70	21.1	76	n.	4	1.8	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.83	757.7	29.96	761.0	77.2	25.1	64	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo.	28.61	726.7	30.00	762.0	66	18.9	93	w.	6	2.7	.....	10 cs	0	calm	.....	0.91	23.1	cloudy	J. B. Marbury.
Starkville, Miss.	29.52	749.8	29.99	761.7	77	25.0	90	sw.	7	3.1	.....	0	8 s	.....	w.	0.59	15.0	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.24	717.3	30.02	762.5	52	11.1	100	nw.	16	7.2	.....	.....	10 n	.....	nw.	0.01	0.3	light rain	W. Burrows.
Stockton, Fort, Texas	26.96	684.8	29.90	759.4	66.0	18.9	84	s.	4	1.8	.....	0	1 s	.....	calm	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.84	757.9	29.89	759.2	68.0	20.0	78	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.19	741.4	29.86	758.4	71	21.7	62	w.	3	1.3	.....	6 c;cs	0	sw.	.....	0	0	fair	A. Buell.
Tucson, Arizona	27.55	699.8	29.87	758.7	77	25.0	54	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.80	756.9	30.16	766.1	53	11.7	41	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.03	737.3	29.97	761.2	78	25.6	82	e	2	0.9	.....	.....	10 s	.....	se.	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	69.2	20.7	38	w.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.76	755.9	30.00	762.0	75	23.9	97	s.	12	5.4	.....	.....	10 n	.....	nw.	0.65	16.5	thund'r storm	H. P. Brisbane.
Visalia, California	29.54	750.3	29.92	760.0	67	19.4	63	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washakie, Fort, Wyoming	24.80	629.9	30.13	765.3	42.0	5.6	70	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	29.88	758.9	29.99	761.7	74.6	23.7	71	calm	0	0	.....	7 c;ck	0	sw.	.....	0.01	0.3	fair	B. M. Purssell.
West Las Animas, Colorado	26.28	667.5	30.04	763.0	60.9	16.1	78	e.	1	0.4	.....	0	8 k	.....	w.	0	0	cloudy	F. W. Brandenburg.
Williamsport, Pa.	29.37	746.0	29.95	760.7	74	23.3	56	calm	0	0	.....	.....	hz.	.....	.....	0	0	dense haze	B. F. Hough.
Wilmington, N. Carolina	30.00	762.0	30.05	763.3	79	26.1	88	sw.	7	3.1	.....	5 cs	0	sw.	.....	0	0	fair	A. T. Sherwood.
Winnemucca, Nevada	25.78	654.8	30.00	762.0	57	13.9	24	ne.	11	4.9	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.72	729.5	29.99	761.7	57	13.9	64	n.	20	8.9	.....	0	0	.....	.....	0	0	clear	J. H. Attfeld.
Yuma, Arizona	29.70	754.4	29.84	757.9	82.0	27.8	56	se.	15	6.7	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	53.5	11.9	76	calm	0	0	.....	20;ck	1 s	nw.	nw.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.09	764.3	30.10	764.5	81	27.2	95	ne.	.....	.....	.....	5 ck	10 s	.....	.....	0.77	19.6	.....	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.01	762.2	78	25.6	90	calm	0	0	.....	.....	10 n	.....	calm	0	0	cloudy	J. I. Plume.
Kingston, Jamaica, W. I.	30.11	764.8	30.12	765.0	82.5	28.1	72	n.	3	1.3	.....	0	0	.....	.....	0	0	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	75	23.9	.....	calm	.....	.....	0	6 cs	0	se.	.....	0.41	10.4	.....	S. M. Pike.
Navassa	29.98	761.5	30.06	763.5	82	27.8	72	e.	12	5.4	.....	5 ck	2 s	se.	e.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.12	765.0	30.12	765.0	75.5	24.2	93	e.	.....	.....	2	.....	10 n	e.	e.	0.800	20.3	rainy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.42	747.3	29.98	761.5	78	25.6	89	sw.	.....	.....	1	6 c	2 k	calm	calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	99	ne.	.....	.....	1	.....	9 ks	.....	ne.	0.03	0.8	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.01	762.2	30.03	762.7	79	26.1	78	calm	0	0	.....	9 cs	0	.....	.....	0	0	cloudy	Robert Mason.
York Factory, B. A.	29.67	753.6	29.73	755.1	56.0	13.3	94	s.	16	7.2	.....	.....	10 n	.....	s.	.....	.....	raining	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, S. 18° 52′, W. 2° 07′	30.27	768.8	69	20.6	65	se.			2-3		8							d. clouds.
H. M. S. Amethyst, Montevideo, Uruguay	29.93	760.2	56	13.3	97	ese.			2		9							d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.84	757.9	71	21.7		n.			3		7	nnw.						d. clouds.
H. M. S. Bacchante, N. 38° 10′ W. 0° 07′	30.06	763.5	76	24.4	86	e.			3		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.35	770.9	60	15.6		w.			1-2		1	w.						blue sky.
H. M. S. Champion, N 30° 00′ E. 145° 00′			80	26.7	100	sw.			3		6					3	n.	d. clouds.
H. M. S. Comus, N. 46° 12′, E. 158° 45′	29.81	757.2	48	8.9	85	wnw.			4		10	e.				2-3	cf'd	misty.
H. M. S. Diamond, S. 4° 46′, E. 152° 40′	29.96	761.0	81	27.2	91	s.			1		10					1	s.	overcast.
H. M. S. Dido, N. 13′, 05° W. 59° 30′	30.11	764.8	78	25.6		ne.			1-2		4							showery.
H. M. Dock-Yard, Bermuda, W. I.	30.27	768.8	79.5	26.4	84	sse.			1-2		3	sse.						d. clouds.
H. M. S. Druid, N. 22° 08′, W. 72° 40′	30.19	766.8	81.5	27.5	87	ese.			2-3		3	e.				3	ese.	d. clouds.
H. M. S. Eclipse, S. 8° 10′, E. 40° 50′	30.09	764.3	80	26.7		ssw.			4-5		6					4	ssw.	d. clouds.
H. M. S. Emerald, S. 6° 50′ W. 17° 40′	30.12	765.0	76	24.4	95	e.			2-3		1	e.				1	e.	blue sky.
H. M. S. Euryalus, N. 5° 30′, E. 75° 00′	29.88	758.9	84	28.9	96	wsw.			3		7	w.				2	ssw.	d. clouds.
H. M. S. Espiegle, S. 15° 20′ E. 167° 40′	29.99	761.7	75	23.9	85	ese.			2		3					1	e.	squally.
H. M. S. Fantome, Saint Lucia, Jamaica, W. I.	30.10	764.5	81	27.2		e.			1		5	e.						d. clouds.
H. M. S. Fawn, S. 31° 16′, E. 30° 06′	30.28	769.1	65.5	18.6	70	sse.			1		0					4	s.	blue sky.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.11	764.8	58.5	14.7	90	s.			2		10							drizzling.
H. M. S. Griffon, N. 51° 22′, W. 55° 34′	29.59	751.6	50	10.0	93	se.			2		10							raining.
H. M. S. Iris, Port Said, Egypt	29.96	761.0	82	27.8	74	wnw.			3		0					1	wnw.	blue sky.
H. M. S. Iron Duke, N. 41° 19′, E. 139° 40′	30.00	762.0	66	18.9	90	nne.			2		0							blue sky.
H. M. S. Kingfisher, N 39° 00′, W. 123° 50′	30.03	762.7	53	11.7		calm			0		9					2	nnw.	foggy.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.99	761.7	77.3	25.2	93	ese.			1		3					1	ese.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.03	762.7	53.5	11.9		n.			2		10					2	n.	d. clouds.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	29.96	761.0	74.5	23.6	87	calm			0		0							blue sky.
H. M. S. Minotaur, N. 34° 36′ E. 27° 30′	29.63	752.6	77	25.0	88	wnw.			3		0					2	wnw.	dense mist.
H. M. S. Nelson, S. 36° 50′, E. 174° 49	29.67	753.6	57	13.9	81	s.			1		2							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.73	755.1	70	21.1	79	w.			1		0							blue sky.
H. M. S. Orion, N. 43° 26′, W. 9° 00′	30.32	770.1	68.5	20.3		wnw.			1		0					3	wnw.	blue sky.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.88	758.9	83.5	28.6	79	s.			1		4	s.						d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Island	30.16	766.1	71	21.7	85	sse.			2		7	se.						d. clouds.
H. M. S. Rocket, Vancouver Island, B. A.	30.12	765.0	49	9.4	93	calm			0		2							d. clouds.
H. M. S. Sappho, S. 19° 00′, W. 149° 00′	29.99	761.7	74.5	23.6		s.			2		6	calm				2	e.	d. clouds.
H. M. S. Swiftsure, S. 25° 00′, W. 44° 00	30.28	769.1	68.5	20.3	90	ne.			2		2	n.						d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.00	762.0	54.7	12.6	91	e.			2		10							overcast.
H. M. S. Tamar, N. 35° 39′, E. 17° 49′	29.92	760.0	78.5	25.8	69	wnw.			3		0					2	nnw.	blue sky.
H. M. S. Tenedos, N. 49° 00′ W. 58° 15′	29.45	748.0	57	13.9	93	wsw.			1		10							misty.
H. M. S. Triumph, Talcahuano, Chili	29.71	754.6	54	12.2	93	n.			7-8		10	n.						raining.
H. M. S. Woodlark, Mohammera, Persia	29.33	745.0	105.5	40.8	29	se.			1		0							blue sky.
H. M. S. Zephyr, N. 26° 30′, E. 121° 40′	29.85	758.2	83	28.3	91	ese.			4		2	s.				1	s.	d. clouds.
Portuguese Naval.																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.13	765.2	76.6	24.8	85	ne.			2		4					2		d. clouds.
Tamega, Macao, China	29.80	756.8	86.0	30.0	82	e.			5		9		e.					overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.06	763.5	79	26.1	86	sw.	8	3.6			8		sw.	1.02	25.9			fair.
Navy Yard, Portsmouth, N. H.	29.89	759.2	72	22.2	71	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.85	758.2	68.5	20.3	82	e.			2		10		e.	0.08	2 0			cloudy.
Adams, Mare Island, Cal	29.98	761.5	58	14.4	94	sw.			1-2		0			0	0	sm'h		clear.
Alaska, Callao, Peru	30.02	762.5	59	15.0	88	se.			1		10			0	0	sm'h		cloudy.
Alert, N. 45° 36′, W. 147° 58′*	30.22	767.6	57	13.9	69	s.			1		0			0	0	sm'h		clear.
Alliance, Boston, Mass	29.92	760.0	76	24.4	64	nw.			1		0			0	0			clear.
Ashuelot, Yokohama, Japan*	29.92	760.0	70	21.1	85	ne.			2		8		ne.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.30	769.6	66	18.9	100	n.	1	0.4			10		calm	0	0	sm'h		cloudy.
Colorado, New York, N. Y	29.92	760.0	76	24.4	73	calm	0	0			5		calm	0	0			hazy.
Constellation, N. 37° 53′, W. 73° 15′*	30.02	762.5	73	22.8	90	sw.			3		5		sw.			sm'h		fair.
Enterprise, New York, N. Y*	29.94	760.5	76	24.4	91	calm			0		5?		calm					clear.?
Essex, S. 49° 00′, W. 80° 57′	29.23	742.4	41	5.0	57	sse.			4-6		10		sse.			r'gh	sse.	squally.
Franklin, Norfolk, Va	30.02	762.5	76	24.4	91	wsw.	6	2.7			5		w.	0.6	15.			fair.
Galena, N. 32° 16′, E. 27° 05′	29.71	754.6	81	27.2	91	wnw.			4		0					mod	wnw.	clear.
Independence, Navy Yard, Mare Island, Cal	30.03	762.7	56	13.3	94	wsw.			3		8			0	0			cloudy.
Iroquois, San Francisco, Cal	30.04	763.0	55	12.8	93	wsw.			2		10			0	0			foggy.
Kearsarge, Norfolk, Va	30.02	762.5	75	23.9	95	wsw.			2		10							cloudy.
Lackawanna, Callao, Peru*	30.08	764.0	61	16.1	82	se.			2		10							cloudy.
Lancaster, Alexandria, Egypt*	29.67	753.6	87	30.6	96	wnw.			3		8		nw.	0	0	mod.	nw.	fair.
Marion, S. 34° 54′, W. 56° 13′	29.98	761.5	57	13.9	100	nne.			2		10		calm			sm'h		cloudy.
Michigan, Detroit, Mich	29.81	757.2	67	19.4	74	sw.			2		8		w.					fair.
Minnesota, Newport, R. I.	29.97	761.2	71	21.7	80	calm	0	0			2							
Monocacy, Chefoo, China	29.80	756.9	75	23.9	86	sse.			2-4		10		sse.			mod.	ese.	cloudy.
New Hampshire, Newport, R. I.	29.92	760.0	71	21.7	90	sw.			1		2					sm'h		clear.
Nipsic, Alexandria, Egypt*	29.66	753.4	79	26.1	74	wnw.			4		8					r'gh		hazy.
Onward, Callao, Peru	30.17	766.3	59	15.0	94	sse.			3		10		n.			long	v	misty.
Palos, Kobe, Japan*	29.89	759.2	74	23.3	76	calm			0		2		calm					fair.
Passaic, Washington, D. C.	30.02	762.5	78	25.6	95	calm			0		5?							clear.?
Pensacola, Panama, Panama*	29.85	758.2	81	27.2	78	nnw.	3	1.3			2		nw.	0.04	1.0	sm'h		clear.
Portsmouth, Lisbon, Portugal*	30.09	764 3	70	21.1	80	sse.			2		2							clear.
Powhatan, N. 29° 59′, W. 86° 50′	30.08	764.0	81	27.2	83	wsw.			3		8		nw.			sm'h		cloudy.
Quinnebaug, Alexandria, Egypt	29.73	755.1	80	26.7	87	wnw.			4		2		wnw.			long	wnw.	hazy.
Ranger, Mare Island, Cal	30.03	762 7	58	14.4	88	sw.			2-3		10		calm	0	0			overcast.
Richmond, Yokohama, Japan*	29.95	760.7	70	21 1	85	ne.			2		5		n.	0.06	1.5			fair.
Saratoga, Lisbon, Portugal	30.12	765.0	73	22.8	67	se.			1		2		calm	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.15	765.8	76	24.4	82	calm			0		0			0	0			clear.
Swatara, Yokonama, Japan*	29.88	758.9	70	21.1	80	ne.			3		10		ne.			sm'h		cloudy.
Tennessee, New York, N. Y	29.99	761.7	75	23.9	72	e.	1	0.4			2			0	0			clear.
Vandalia, Portsmouth, N. H*	29.86	758.4	80	26.7	78	wsw.			1		0							clear.
Wabash, Boston, Mass	29.92	760.0	76	24.4	73	w.	3	1.3			2		sw.	0	0			clear.
Wachusetts, Highfield Harbor, Alaska†	30.41	772.4	47	8.3	92	calm			0		5			0	0	sm'h		fair.
Wyoming, Port Royal, S. C*	30.07	763.8	78	25.6	82	sw.	6	2.7			5		sw.	0	0			fair.
Yantic, N. 42° 43′ W. 69° 47′	29.90	759.4	63	17.2	89	wnw.			2		2					sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 53° 21′, W. 45° 53′*	29.68	753.9	49	9.4	93	ne.			4		10		ene.	0	0	2	ene.	misty.
S. S. Grecian, N. 55° 20′, W. 38° 35′*	29.54	750.3	49	9.4		nne.			5		10		nne.	21 h'r	21 h'r	mod.	ne.	overcast.
S. S. Nova Scotian, N. 37° 43′, W. 74° 04′	29.97	761.2	74	23.3		wsw.			4		8		sw.			slight	sw.	showery.
S. S. Scandinavian, N. 42° 43′ W. 63° 43′*	29.79	756.7	56	13.3		wsw.			4		10			0	0	mod.	short	foggy.
S. S. Waldensian, Glasgow, Scotland*	29.76	755.9	65	18.3		wnw.			4		2		wsw.	0	0			clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, Liverpool, Eng*†	29.83	757.7				nw.			5		1		nnw.	3 h'r	3 h'r			fine.
S. S. Lord Gough, N. 48° 22′, W. 47° 38′	29.81	757.2	46	7.8		wsw.			2		10		wsw.	shr's	shr's	long	nw.	dull.
S. S. Pennsylvania, N. 39° 03′, W. 71° 27′†	30.02	762.5	75	23.9		w.			5		1		wsw.			mod.	sw.	blue sky.
ANCHOR LINE.																		
S. S. Alexandria, N. 40° 42′, W. 9° 35′	30.20	767.1	68	20.0		w.			4		0			0	0		nw.	clear.
S. S. Assyria, N. 40° 26′, W. 33° 50′*†	30.21	767.3	72	22.2		w.			5		8		w.	4 h'r	4 h'r	r'gh	w.	fine.
S. S. Devonia, N. 49° 42′, W. 34° 25′†	29.27	743.4	56	13.3		nw.			4		7		nw.			long	wsw.	fair.
S. S. Gallatia, N. 33° 06′ E. 22° 46′†	29.99	761.7	77.3	25.2		nnw.			5		1			0	0	r'gh	n.	
ATLAS LINE.																		
S. S. Alvo, N. 12° 48′, W. 76° 18′	29.98	761.5				e.			6		2		e.	0	0	r'gh	e.	fair.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Charlottetown, Prince Edward I'd†	29.74	755.4	65	18.3		w.			2					0	0			fair.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, N. 6° 30′, W. 22° 38′	30.08	764.0	78	25.6	95	ssw.			3		6							showery.
S. S. Basil, N. 33° 34′, W. 13° 47′	30.21	767.3	68.6	20.3	81	nnw.			4		3							d. clouds.
S. Baroda, S. 33° 37′, E. 28° 30′	30.29	769.4	64.6	18.1	68	nnw.			2		0							blue sky.
S. S. Cipero, N. 30° 14′, W. 47° 33′	30.36	771.1	80.2	26.8	78	calm			0		2							blue sky.
S. S. City of Agra, N. 7° 18′, W. 23° 00′	30.15	765.8	83	28.3	91	sw.			3		5							d. clouds.
S. S. Glencairn, N. 35° 40′, W. 41° 30′	30.28	768.6	80	26.7	78	w.			4		2							d. clouds.
S. S. Gordon Castle, N. 36° 13′, W. 5° 05′	30.02	762.5	77	25.0	77	w.			1–2		0							misty.
S. S. Markland, S. 36° 00′, W. 126° 42′	29.76	755.9	57.2	14.0	99	wnw.			5		3					5	w.	d. clouds.
May Hulse, S. 7° 17′, W. 24° 05′	30.14	765.5	77.2	25.1	86	e.			4		2							blue sky.
S. Oamarn, S. 23° 38′, E. 28° 00′	30.28	769.1	65.5	18.6	64	wnw.			3									blue sky.
Pole Star, N. 21° 28′ W. 35° 45′	30.26	768.6	76.4	24.7	95	ene.			4		5							blue sky
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 22° 54′, W. 109° 43′*†	29.97	761.2	77	25.0	90	s.			1		0					mod.	sw.	clear.
CROMWELL LINE.																		
S. S. Hudson, N. 26° 33′, W. 80° 00′†	30.18	766.6	79	26.1		s.			2		4		s.	1 h'r	1 h'r			fair.
CUNARD LINE																		
S. S. Bothnia, N. 49° 17′, W. 24° 21′	29.46	748.3	62	16.7	94	sse.			4		5?		w.	5 h'r	5 h'r		sse.	clear.?
S. S. Scythia, Liverpool, Eng	29.86	758.4	65	18.3	89	nw.			2		3		nw.	0	0			clear
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 40° 27′, W. 73° 39′.†	29.83	757.7	69.8	21.0		w.			1	c		w.		0	0	sm'h	w.	clear.
S. S. Ville de Marseilles, Marseilles, France*†	29.85	758.2	76	24.4		nnw.			6		0			0	0			clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Herder, New York, N. Y*†	30.02	762.5	77	25.0		se.			3		1		se.	0	0			clear.
S. S. Silesia, N. 42° 42′, W. 47° 28′†	30.10	764.5				ssw.			6		7?		w.	0	0	5	wsw.	overcast.?
INMAN LINE.																		
S. S. City of Berlin, N. 43° 30′, W. 44° —	30.05	763.3				wsw.			5		1		w.	sh'rs	sh'rs	r'gh	wnw.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 15° 30′, W. 25° 10′*†	30.29	769.4	76	24.4		ne.			4		5?		ene.	0	0	sm'h		clear?
MALLORY LINE.																		
S. S. Colorado, Galveston, Texas†	30.05	763.3	82	27.8		s.			3		1		s.	0	0			clear.
MEDIAERRENEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 34° 45′, W. 37° 46′*†	30.32	770.1	80	26.7	86	ssw.			4		1		sw.	½ h'r	½ h'r	r'gh	wsw.	fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 45° 27′, W. 39° 01′†	29.92	760.0	59	15.0	87	nw.			6				w.	0	0	mod.	w.	misty.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 12° 58′, W. 35° 48′	29.96	761.0				se.			4				se.	0	0	mod.	se.	fine.
MORGAN LINE.																		
S. S New York, N. 28° 29′, W. 80° 15′†*	30.22	767.6	80	26.7		calm			0		5			0	0			fine.
NATIONAL LINE.																		
S. S Denmark, N. 49° 35′, W. 9° 10′	30.03	762.7	59	15.0		sw.			5		8		wsw.	1½ h'r	1½ h'r	mod.	w.	cloudy.
S. S. England, N. 42° 51′, W. 42° 48′	30.02	762.5				wnw.			5		2		nw.	0	0	hv'y	w.	clear.
S. S. Erin, Liverpool, Eng	29.84	757.9	61	16.1		wsw.			6		3		wsw.	1 h'r	1 h'r			
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Saratoga, N. 24° 45′, W. 80° 50′†	30.32	770.1	83	28.3	83	se.			3		5		se.	6 h'r	6 h'r	sm'h		cloudy.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Washington, N. 39° 58′, W. 73° 58′*†	30.10	764.5	74	23.3		w.			1		2		w.	0	0	mod.	s.	fine.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. State of Nebraska, N. 50° 27′, W. 31° 42..′†	29.28	743.7	58	14.4		wsw.			5							high	con.	
NORTH GERMAN LLOYD.																		
S. S. Hermann, N. 38° 41′, W. 71° 28′	29.99	761.7	77.9	25.5		sw.			4		2		sw.	0	0	mod.	sw.	fair.
S. S. Hohenzollern, N. 41° 22′, W. 44° 37′*	30.12	765.0	67.1	19.5		w.			4		1		w.	0	0	sm'h	w.	clear.
S. S. Mosel, N. 41° 46′, W. 50° 28′	30.09	764.3	59	15.0		sw.			4		6		wsw.	½ h'r	½ h'r	mod.	sw.	cloudy.
S. S. Ohio, Bremerhaven, Germany	29.46	748.3				e.			2		7		ne.	18 h'r	18 h'r			raining.
S. S. Rhien, N. 51° 56′, E. 2° 35′	29.61	752.1				nnw.			6		4		nnw.	0	0	r'gh	nnw.	fair.
S. S. Saller, N. 40° 06′, W. 67° 31′	30.03	762.7	64.4	18.0		sw.			5		8		sw.	0	0	cross	sw.	cloudy.
S. S. Strassburg, N. 47° 23′, W. 28° 29′	29.53	750.0	66.0	18.9	90	w.			6		10		w.	6 h'r	6 h'r	r'gh	w.	covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, Yokohama, Japan*†	29.94	760.5	68	20.0	94	sse.			2		8		n.	sh'rs	sh'rs			d clouds.
S. S. Belgic. San Francisco, Cal†	30.05	763 3	60	15.6	82	w.			6		10		wsw.					foggy.
S. S. Coptic, N. 25° 47′, E. 121° 40′	29.83	757.7	83.0	28.3	?	se.			3		3		se.	0	0	3	se.	blue sky.
S. S. Oceanic, Hong Kong, China*	29.78	756.4	82	27.8	83	e.			6		10		se.					squally.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.02	762.5				w.			1		2			0	0			clear.
S. S. City of Columbus, New York, N. Y †.	29.95	760.7				w.			3		0			0	0			clear.
S. S. Seminole, Savannah, Ga.†	30.12	765.0	82	27.8	83	sw.			1		1		sw.	2 h'r	2 h'r			clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, Columbia River, Oregon †	30.05	763.3	57	13.9	81	wnw.			1					0	0			light haze.
S. S. Oregon, N. 43° 51′, W. 124° 43′†	29.98	761.5	54	12.2	86	calm			0		0					sm'h		hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.97	761.2	53	11.7	93	w.			1		10		w.					foggy.
S. S. Dakota, N. 44° 14′, W. 124° 46′*†	29.95	760.7	54	12.2	86	nw.			2		2		nw.			mod	nw.	clear.
S. S. State of California, San Francisco, Cal.†	30.01	762.2	53	11.7	93	w.			2		10		w.					overcast.
S. S. Victoria, San Francisco, Cal.†	29.94	760.5	50	13 3	93	calm			0		5			0	0	sm'h		hazy
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	29.95	760.7	56	13.3	81	ne.			5		0			0	0			clear.
S. S. City of New York, N. 8° 15′, W. 162° 12′†	29.93	760.2	79	26.1	82	ene.			4		8		e.	0	0	sm'h		squally.
S. S. City of Pekin, N. 46° 18′, E. 169° 41′†	29.75	755.6	48	8.9	100	se.			4		10		se.	0	0	light	se.	misty.
S. S. City of Rio de Janeiro, N. 22° 12′, W. 106° 13′*†	30.27	768 8	80	26.7	78	se.			2		9		se.	0	0	light	se.	clearing.
S. S. City of Sydney, Sydney, N. S. W.†	30.01	762.2	63	17.2	52	sw.			6		5		sw.	0	0	sm'h		cloudy.
S. S. City of Tokio, N. 43° 26′, E. 177° 34′†	30.12	765.0	52	11.1	79	w.			3		10			1 h'r	1 h'r	small	w.	misty.
S. S. Colon, Aspinwall, Panama†	29.97	761.2	82	27.8		ne.			3		3		ne.	3 h'r	3 h'r	mod.		fair.
S. S. Colima, Panama, Panama†	29.94	760.5	76	24.4	91	nw.			2		7		nw.	0.05	1.3			cloudy.
S. S. Granada, N. 24° 06′ W. 111° 34′†	29.99	761.7	66	18.9	100	nw.			2		8		w	0	0	light	wnw.	hazy.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, Martinique, W. I.	29.93	760.2	80	26.7		ene.			4		2			sh'rs	sh'rs	sm'h		fair.
S. S. Bermuda, N. 29° 18′, W. 66° 48′†	30.31	769.9	83	28.3		s.			1		5		s.	0	0	gentle	s.	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Belgenland, Antwerp, Belgium†	29.54	750.3	60	15.6	71	sw.			3		4?		sw.	6 h'r	6 h'r			cloudy.?
S. S. Nederland, N. 40° 52′, W. 52° 40′†	29.90	759.4	74	23.3	98	wsw.			3		2		w.	o	o	sm'h	wsw.	fair.
S. S. Rhynland, N. 40° 46′, W 59° 50′	30.05	763.3	75	23.9	81	wsw.			6		4		wsw.	o	o	high	wsw.	clear.
S. S. Vaderland, Antwerp, Belgium	29.50	749.3	60	15.6	94	wnw.			6		10		wnw.	9 h'r	9 h'r			rainy.
ROTTERDAM LINE.																		
S. S. P. Caland, N. 49° 32′, W. 14° 40′†	29.63	752.6	59.7	15.4	79	ssw.			5		7 cs		sw.			r'gh	ssw.	cloudy.
S. S. Schiedam, N. 50° 20′ W 1° 17′*	30.11	764 8	63.7	17.6	78	nw.			4		5		nw.	o	o			fair.
S. S. W. A. Scholten, N. 41° 56′ W. 50° 12′	29.89	759.2	67.0	19.4	92	sw.			4		2		sw.	o	o	mod.	wsw.	
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	30.14	765.5	73	22.8		wsw.			2		4		sw.	2 h'r	2 h'r			clear.
S. S. State of Georgia, N. 46° 24′ W. 39° 27′†	29.76	755.9	56	13.3		wnw.			6		10		wnw.	driz.	driz.	sharp	wnw.	drizzling
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	29.82	757.4	69.8	21.0		sse.			2		8		sse.	3 h'r	3 h'r			covered.
WHITE STAR LINE.																		
S. S. Celtic, N. 48° 00′, W. 31° 42′†	29.49	749.0	64	17.8	83	wsw.			6		10		sw.	24 h'r	24 h'r	hv'y	wsw.	showery.
S. S. Republic, Liverpool, Eng†	30.00	762.0	63	17.2	100	nw.			4		2		nw.	shr's	sh'rs			showery.
WILSON LINE.																		
S. S. Romano, N. 48° 48′ W. 8° 10′	29.83	757.7	60	15.6		w.			2		4		nw.	o	o	sm'h		clear.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa†	30.02	762.5	78	25.6		calm			0		0			o	o			clear.
MISCELLANEOUS.																		
Schr. Ajax, Indianola, Texas†	30.16	766.1				se.			1		8		s.	o	o			hazy.
Bk. Alpha, New York, N. Y†	29.93	760.2	78	25.6		nw.			1		0			o	o			fair
Schr. Annie Lewis, Aransas, Pass, Texas†	30.13	765.3	83	28.3		sse.			2		1		sse.	o	o	long	sse.	clearing.
Bk Anna Thormann, S. 39° 02′, E. 5° 45′	29.99	761.8	54.7	12.6	71	w.			7		5 k		w.	o	o	high	w.	misty.
S. S. Antonio Lopez, N. 30° 28′, W. 13° 40′	30.12	765.0	69.5	20.8	79	nne.			5		5			o	o	mod.		fair.
Bk. Argonaut, N 58° 43′, W 12° 37 *†	29.85	758.2	60.3	15.7		ene.			1		7			2 h'r	2 h'r	long	ne.	cloudy.
Schr. Asa Eldridge, Key West, Fla†	30.21	767.3				se.			1		5		ssw.	o	o			fair.
S. S. Burswell, N. 38° 11′, W 65° 00′*†	30.17	766.3	82 *	27.8		wsw.			4		1		wsw.	o	o	mod.	wsw.	light haze.
Bk. Cato, N. 58° 06′, W. 10° 45′*†	30.10	764.5				calm.			0		0			o	o	sm'h	wsw.	clear.
Bk. Celestina, S. 30° 51′, W. 42° 56′*†	30.34	770.6				ne.			2		2		n.	o	o	long	ssw.	fair.
Schr. C. R. Flint, Cedar Keys, Florida†	30.30	769.6	79	26.1		calm			0		5		wsw.	o	o			fair.
S. Cornelius, N. 38° 58′, W 61° 00′*†	30.38	771.6	78	25.6		w.			6		2		w.	o	o	long	w/sw.	clear.
Schr. Edith R. Seward, Ponce, Porto Rico, W. I*†	30.18	766.6	83	28.3		ene.			1		5?		e.	o	o			cloudy?
S. E. J. Spicer, New York, N. Y*	29.97	761.2	77	25.0		wsw.			1		0			o	o			clear.
Bk. E. L. Pettingill, N. 45° 06′ W. 127° 43′†	30.30	769 6				wnw.			5		0			o	o	sm'h		clear.
S. Enoch Train, N. 39° 07′, W. 60° 00′*†	30.20	767.1				wsw.			4		5		wsw.	sh'rs	sh'rs	light	wsw.	raining.
Bk. Essex, S. 35° 58′ W. 3° 30′*†	30.08	764.0	66	18.9		n.			3		7		n.	1 h'r	1 h'r	hv'y	w.	cloudy.
Bk. Freya, N. 40° 18′, W. 66° 50′						sw.			6		2		wsw.	o	o	high	wsw.	hazy.
S. Grecian, Hong Kong, China*†	29.75	755.6	85	29.4		e.			6		9		var.	sq'ls	sq'ls			cloudy.
Bk. Hattie G. McFarland, N. 40° 40′, W. 72° 10′*†	30.03	762.7	69	20.6		calm			0		2		nw.	o	o	sharp	sw.	clear.
S. Hedwig, N. 36° 42′, E. 16° 02′	29.95	760.7	76.5	24.7	80	nnw.			4		0			o	o	long	nnw.	fine.
Bk. Horace Scudder, N. 33° 14′, W. 59° 31′†	30.41	772.4	78	25.6		w.			3		5		nw.	o	o	sm'h	w.	blue sky.
S. Ivy, N. 10° 43′, W. 124° 24′†	30.16	766.1	77	25.0		ne.			2		5		ese.	4 h'r	4 h'r	cross	s.	fair.
S. Ismir, S. 48° 25′ E. 53° 10′†	29.27	743.4				nnw.			8		10			11 h'r	11 h'r	high	nnw.	raining.
Schr. Jennie N. Huddell, N. 40° 45′. W. 72° 00′†	30.13	765.3	70	21.1	90	n.			1		2		n.	o	o	h'vy	ssw.	light fog.
Bk. Johanne, N. 58° 53′, W. 17° 50′*†	29.75	755.6	62	16.7		e.			2		5		e.	o	o	mod.	e.	hazy.
Schr. John L. Thomas, Vivorilla Cay, Mosquito Coast*†	30.10	764.5				e.			4		3		ese.	o	o			fair.
Bg. John Wesley, N. 29° 03′ W 70° 34′†	30.14	765.5				sse.			2		3		se.	½ h'r	½ h'r	mod	sse.	fair.
Bk. Joseph A. Ropes, N. 6° 50′, W. 26° 43′*†	30.13	765.3	82	27.8	78	sw.			3		9		sw.	o	o	mod.	s.	cloudy.
Bkt. Josephine, N. 37° 33′, W. 74° 39′†	30.00	762.0	78	25.6	73	ssw.			3		10			o	o	mod.	s-w.	cloudy.
Bkt. Kryolith, N. 51° 18′, W. 51° 12′*†	29.68	753.9				ese.			5							mod.		dense fog.
S. S. Lamperts, N. 34° 12′, E. 20° 27′*	29.83	757.7	77.0	25.0	76	nw.			6		0					4		blue sky.
S S. Laurel, N. 26° 51′, W. 82° 30′†	30.17	766.3	84	28.9		n.			1		5		n.	o	o			fair.
Bk. Liberia, N. 9° 30′, W. 23° 16′*	29.92	760.0	77	25.0	90	nnw.			5		7		n.	o	o			
S. S. Malabar, N. 47° 36′, W. 146° 25′*†	30.16	766.1				n.			1					o	o			
S. Orealla, N. 36° 36′, W. 59° 44′*	30.04	763.0	80	26.7		sw.			4		5		sw.	sh'rs	sh'rs	sm'h	sw	showery.
S. Paramita, S. 17° 25′ W. 99° 30′†	30.04	763.0	71	21.7		se.			1-4		2		se.	2 h'r	2 h'r	long	sse.	rainy.
S. S. Ponca, St. Thomas, W. I.†	30.07	763.8				e.			1		1		e.	o	o			clear.
S. S. Sunbeam, Odessa, Russia	29.83	757.7	74	23.3	47	n.			2		1		n.					blue sky
S. Sovereign of the Sea, N. 6° 23′ W. 26° 26′*†	30.02	762.5	80	26.7	91	s.			3		8		e.	1 h'r	1 h'r	mod.	long	hazy.
Bg. Teneriffe, Cardenas, Cuba, W. I.	30.06	763.5				calm			0									
Bk. Truro, N. 46° 05′, W. 31° 45′*†	29.70	754.4				wsw.			7		10		wsw.	2 h'r	2 h'r	r'gh	cross	cloudy.
U. S. F. C. S. S. Fish Hawk, N. 37° —′, W. 75° 40′†	30.21	767.3	75	23.9	90	wsw.			1		7		sw.	o	o	mod.	s.	cloudy.
Schr. Viola Reppard, Baltimore, Md†	30.01	762.2	82	27.8		w.			2		3		w.	o	o			clear.
Bk. Wm. Wilcox, S. 32° 00′, W. 49° 15′*†	30.36	771.1	70	21.1		ne.			3		2		n.	o	o	sm'h		fair.
Wm. Woodbury, N. 50° 41′, E. 0° 55′*	29.83	757.7	66	18.9	68	n.			6		6		nnw.			sm'h	w.	foggy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 13, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.04	763.0	77.5	25.3	84	s.			2		2			0	0	fair	Bouvier.
Algiers			30.05	763.3	86.7	30.4	30	n.			1		0			0	0	clear	Nicolas.
La Galle			29.98	761.5	78.8	26.0	60	ene.			5		2			0	0	fair	Fonfrède.
Tunis			29.97	761.1															Jacques.
Saida			30.10	764.4	95.4	35.2	13	se.			2		2			0	0	fair	Perés.
Tebessa			30.08	764.1	82.8	28.2	22	nnw.			1		0			0	0	clear	Derché.
Geriville					99.0	37.2	3	nnw.			3		3			0	0	pretty fair	Lonchamp.
Laghouat			30.13	765.3	98.6	37.0	35	e.			1		0			0	0	clear	Abraham.
Biskra			30.10	764.4	99.7	37.6	18	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.92	759.9	30.01	762.2	40.0	4.4	81	w.	13	5.8			3			0.05	1.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.31	744.4	29.84	757.9	68.7	20.4	67	ne.			2		8			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.10	739.1	29.84	758.0	68.7	20.4	59	w.	6.3	2.8			10			0	0		Dr. Wierzbiski.
Eperies	28.91	734.3	29.74	755.5	75.2	24.0	55	n.			2	10 c	0			0	0		Julius Mikolik.
Gratz	28.66	727.9	29.87	758.6	69.1	20.6	65	nw.			4		7			0.843	21.4		Andreas Rosplnl.
Hermannstadt	28.28	718.4	29.64	752.8	73.9	23.3	50	se.			3		10			0.094	2.4	raining	Prof. A. Gottschling
Kremsmunster, Obs'y	28.71	729.2	30.04	763.1	55.6	13.1	87	wsw.			3		10			0.031	0.8	gloomy	The Staff.
Lemberg	28.97	735.9	29.91	759.7	76.3	24.6	46	se.			3		7			0	0		Dr. T. Stanecki.
Pola	29.76	755.8	29.87	758.6	71.6	22.0	90	wnw.			5		7			0	0		I. R. Hydrographic Office.
Szathmar	29.23	742.5	29.67	753.7	81.0	27.2	49	e.			1		9			0.256	6.5		Joseph Midlinszay, S. J.
Szegedin	29.43	747.4	29.69	754.1	74.1	23.4	62	sw.			1		6			0.063	1.6		Karl Stancel.
Trieste	29.80	756.9	29.90	759.5	77.0	25.0	53	sw.			1		4			0	0		Royal Academy.
Vienna	29.22	742.3	29.92	760.0	65.8	18.8	73	w.			4		7			0.287	7.3		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.55	750.6	29.65	753.1	58.9	14.9	81	sse.	14	6.3			10			0.160	4.1	overcast	W. Boswell
Armagh, Observatory	29.26	743.2	29.49	749.0	63.1	17.3	82	s.	12	5.4			10					gloomy	S. Call.
Bidston, Liverpool Obs'y			29.66	753.4	56.1	13.4	96	se.	19	8.5			10					raining	John Hartnup.
Bolton, Sharples	29.17	740.9	29.70	754.4	54.5	12.5	93	sse.	12	5.4			10					raining	Thomas Mackereth, Ton.
Bradford, Yorkshire	29.32	744.7	29.72	754.9	56.6	13.7	89	sw.			1		10			0.38	9.7	raining	McLandsborough & Pres'd clouds
Bridgetown, Barbadoes	30.04	763.0	30.07	763.8	83.0	28.3	70	ne.			3		3						Corpl. J. Surgenor, A. H. C.
Cardington			29.76	755.9	64.0	17.8	74	sw.			2.0		10					overcast	John McLaren.
Chatham, School M. E.	29.77	756.1	29.90	759.4	60.4	15.8	76	sw.			3		9			blank	blank	misty	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.53	750.0	29.75	755.6	58.6	14.8	83	s.			5		10					foggy	The Staff.
Fort Napier, Natal	27.91	708.9	30.13	765.3	76.5	24.7	16	calm			0		0					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.63	752.6	29.86	758.4	87.0	30.6	69	w.			1		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.96	761.0	30.01	762.2	77.6	25.3	77	ne.			4		7					gloomy	Opl. O. Baldwin.
Glasgow, Observatory	29.34	745.2	29.54	750.3	61.2	16.2	74	sse.			5		10n;k					threatening.	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.70	754.4	29.87	758.7	60.5	15.8	76	ssw.			4		8					showery	The Staff.
Guernsey	29.54	750.3	29.83	757.7	63.0	17.2	75	sw.			2		9			blank	blank	overcast	A. Collenette, F. M. S.
Kew, Observatory	29.83	757.7	29.87	758.7	62.9	17.2	66	sw.	22	9.8			9					threatening.	The Staff.
Leicester, Museum	29.53	750.0	29.78	756.4	60.2	15.7	73	sw.			2		9					overcast	J. C. Smith.
Malta, Mediterranean	29.75	755.6	29.82	757.4	79.2	26.2	57	nw.			3		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.15	765.8	30.19	766.8	87.0	30.6	72	se.			2		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.25	742.9	29.76	755.9	57.8	14.3	81	s.			6		8					threatening.	Warren Middleton.
Oxford, Radcliffe Obs'y	29.60	751.8	29.83	757.7	60.9	16.1	76	s.			4		10					squally	The Staff.
Plymouth	29.71	754.6	29.79	756.7	60.2	15.7	76	s.			5		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.56	750.8	57.1	13.9	74						10					overcast	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.48	748.8	29.54	750.3	83.2	28.4	52	n.			1		5					d. clouds	W. H. Lyne.
Sheffield	29.46	748.3	29.74	755.4	61.9	16.6	86	sw.			2		10			0.08	2.0	raining	W. F. Cooper.
Silloth Rectory	29.58	751.3	29.61	752.1	58.1	14.5	87	s.			3		10			0.385	9.8	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.71	754.6	54.9	12.7	90	s.	15	6.7			10					overcast	Rev. S. J. Perry.
Stratfield Turgiss	29.65	753.1	29.87	758.7	63.1	17.3	67	sw.			3		8					squally	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.68	753.9	29.69	754.1	58	14.4	93	sw.			8		8					raining	W. Newcombe.
Valencia, Observatory	29.42	747.3	29.44	747.8	59.5	15.3	96	s.	21	9.4			10					raining	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.83	757.7	29.87	758.7	66	18.9	75	s.	6	2.7		5 c	0	w.		0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.78	756.4	29.84	757.9	66	18.9	84	sw.	2	0.9		3 ck	1 ks	sw.	sw.	0	0	fair	G. A. Blair.
Father Point, Quebec*	29.71	754.6	29.73	755.1	61	16.1	78	s.	3	1.3			10 s		calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.31	744.5	30.14	765.5	48	8.9	93	n.	3	1.3		1 cs	0	n.		0.008	0.2	clear	James Stewart.
Halifax, N. S*	29.83	757.7	29.95	760.7	65	18.3	81	e.	2	0.9		8 ck	0			0	0	cloudy	A. Allison.
Kingston, Ontario*	29.43	747.5	29.75	755.6	63	17.2	84	w.	2	0.9			8 ks		sw.	0.04	1.0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.52	749.8	29.72	754.9	60	15.6	96	ne.	5	2.2			10 n			0.26	6.6	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.08	738.6	29.74	755.4	63	17.2	78	w.	6	2.7		0	0			0.01	0.3	clear	Rev. R. Mosley.
Port Dover, Ontario	29.13	739.9	29.80	756.9	62	16.7	94	w.	6	2.7		0	0			0.02	0.5	clear	H. Morgan.
Port Stanley, Ontario	29.19	741.4	29.81	757.2	61	16.1	84	w.	2	0.9		2 k	0	w.		0.19	4.8	clear	M. Payne.
Quebec, Quebec*	29.20	741.7	29.51	749.5	63	17.2	90	w.			1		10 n		w.	0.01	0.3	light rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.26	743.2	29.70	754.4	60	15.6	90	calm	0	0		10 k	0	sw.		0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.08	738.6	29.78	756.4	58	14.4	86	calm	0	0		0	0			0	0	clear	
St. Andrews, N. B	29.79	756.7	29.85	758.2	58	14.4	84	se.	2	0.9		0	hz.			0	0	clear	
Sydney, C. B*	29.87	758.7	29.93	760.2	70	21.1	61	sw.	12	5.4		2 c	0	w.		0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.41	747.0	29.78	756.4	62	16.7	81	w.	7	3.1		0	0			0.09	2.3	clear	Magnetic Observatory.
Yarmouth, N. S*	29.85	758.2	29.91	759.7	59	15.0	96	s.	3	1.3			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
Mount Forest	28.40	721.3	29.87	758.7	51.0	10.6	100	calm			0		fg.			0.030	0.8	dense fog	Wm. Wylie.
St. Johns, Newfoundland	29.957	760.77	30.207	767.17	52	11.1	86	ne.	2	0.9			fg.			0	0	foggy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.34	770.6	30.37	771.4	66.0	18.9	75	w.	5.4	2.4		0	1 s			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.22	767.6	30.26	768.6	64.5	18.1	63	sse.	11	4.9		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.76	755.9	29.78	756.5	79.7	26.5	90	se.	18.6	8.3		2 ck	0			0	0	clear	M. Marc Decheyrens, S.J.
DANISH.																			
Copenhagen	29.73	755.2	29.78	756.4	67.3	19.6	52	wnw.	16	7			6						Oversergent Fischer.
Fanöe	29.82	757.3	29.84	757.8	63.0	17.2	70	w.			4		5						Overloerer Lauridsen
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.76	755.9	29.80	757.0	50.9	10.5	72	se.			2		0						A. O. Thorlacius.
Thorshavn	29.69	754.0	29.72	754.9	50.9	10.5	87	ene.	7	3			10						Overloerer Bergh.
Vestervig	29.69	754.0	29.78	756.3	61.5	16.4	71	w.			6		3						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.39	746.5	30.05	763 3	74.5	23.6	59	s.			1		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.44	747.7	29.99	761.7	67.6	19.8	68	ssw.			3	ck	0			0	0		M. Nicot, Director.
Arras, Engineer School	29.65	753.0	29.89	759.3	66.5	20.3	57	s.			3	ck	0			0	c		M. Fénéon, Command't.
Avignon, Normal School	29.87	758.6	29.95	760.6	79.2	26.2	48	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.51	749.6	30.06	763.4	67.6	19.8	52	s.			1		6		nw.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.72	754.8	29.97	761.3	72.1	22.3	62	sse.			1		10		sw.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.14	740.1	30.01	762.3	68.7	20.4	67	ene.			1	0	2 k		w.	0.28	7.	slightly cl'dy.	M. Gobin, Director.
Bordeaux, Observatory	29.71	754.7	29.97	761.1	73.4	23.0	40	ese.			2		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.50	749.4	30.04	762.9	70.7	21.5	58	se.			1	c	0		se.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.65	753.1	29.89	759.2	63.0	17.2	72	sw.			4		9		sw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	29.90	759.5	29.98	761.4	68.7	20.4	60	s.			3		5		s.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.70	754.3	30.01	762.2	73.4	23.0	59	s.			2		2			0.039	1.0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.48	748.9	29.98	761.6	68.4	20.2	51	wsw.			3					0.16	4.		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.69	728.6	29.99	761.8	73.4	23.0	47	e.			1		0			0	0	clear	M. Allnard, Director.
Cluny, Normal School	29.33	744.9	29.95	760.8	71.2	21.8	46	nw.			1		2		e.	0.177	4.5		M. de Villemontée, Dir.
Commercy, Normal School	29.22	742.1	30.07	763.7	69.6	20.9	58	w.			1		10 kn	w.	w.	0.260	6.6		Dr. Coulet, Director.
Gap, Normal School	27.49	698.2	29.94	760.5	73.4	23	36	nw.			1	0	1 k			0	0		M. Jeanginard, Director.
Greasque, du Rhone	28.82	732.1	29.89	759.1	83.5	28.6	22	sw.			2		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.26	743 3	30.01	762.3	70.2	21.2	52	ese.			1	0	2 k			0.020	0.5	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.47	723.0	30.03	762.8	68.9	20.5	45	n.			1		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	29.63	752.7	29.90	759.5	65.1	18.4	67	se.			4		5		se.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.40	746.8	29.95	760.6	76.6	24.8	48	e.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.87	758.7	29.97	761.3	65.8	18.8	73	s.			2		10	w.	s.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.03	736.7	30.03	762.8	66.0	20.0	46	n.			1		0			0.043	1.1	clear	M. André, Director.
Mans, Normal School	29.66	753 4	29.97	761.1	68.9	20.5	58	sw.			1		2		sw.	0	0	slightly cl'dy	M. Piboeu, Director.
Marseille, Observatory	29.66	753.4	29.93	760.1	78.1	25.6	37	wsw.			0.1		1		wsw.	0	0		M. Stephan, Director.
Montlouis	24.89	632.3	29.74	755.3	66.2	19.0	43	s.	5.6	2.5			0			0	0		M. Cuve, for Dr. Fines.
Montpellier, Normal School	29.83	757.6	29.95	760.7	75.2	24	59	nne.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.37	745.9	30.13	765.3	69.4	20.8	53	s.			1		k			0.217	5.5		M. Hasse, Director
Nantes, Observatory	29.86	758.4	30.02	762.5	72.5	22.5	53	ssw.			0–2	0	8 k; kn		ssw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.87	758.8	29.98	761.5	77.4	25.2	33	ne.	5.6	2.5			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.41	543.7			56.5	13.6		w.			1		0			0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.95	735 3	29.97	761.2	74.5	23.6	41	n.			1		0			0	0	clear	M. Taillen.
Puy de Dôme Obs'y, Summit	25.23	640.8			50.0	10.0	87	se.			3		0			0.024	0.6	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	29.97	761.1	30.00	761.9	75.2	24.0	100	sse.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.79	756.6	30.00	761.9	69.8	21	67	sse.			1		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	27.92	709.1	30.01	762.2	69.3	20.7	51	ne.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	29.89	759.3	29.96	761.0	68.4	20.2	71	s.			2		5	sw.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.85	758.1	30.01	762.3	70.9	21.6	51	se.			1		4	wnw.	s.	0	0		M. Renou, Director.
Toulouse, Observatory	29.32	744.7	30.04	763.1	79.5	26.4	40	e.			1		0			0	0	clear	M. Baillaud, Director.
Tours	29.41	747.0	29.98	761.5	72.0	22.2	52	sw.			1		1		s.	0	0	clear	M. de Tastes.
Versailles, Observatory	29.51	749.6	30.00	762.1	71.6	22.0	45	sw.			2					0	0		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.74	755.3	30.03	762.7	71.6	22.0	53	sw.			2		7	w.	sw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.17	741.0	30.03	762.7	64.8	18.2	50	w.			2	0	3 k		wnw.	0.020	0.5		Prof. Dr. Hoh.
Berlin	29.85	758.3	30.03	762.7	70.2	21.2	39	sw.			3		5			0.020	0.5		Prof. Dr. Arndt.
Breslau	29.40	746.8	29.93	760.2	68.7	20.4	54	nw.			2		8			0.063	1.6		Royal University Obs'y.
Carlsruhe	29.62	752 4	29.66	753.3	68.0	20.0	67	sw.			2		5	sw.		0	0		Albert Senz.
Cassel	29.23	742.4	29.94	760.5	73.8	23.2	45	s.			2		0	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.65	753.2	30.01	762.2	66.2	19.0	68	wsw.			1		6			0.114	2.9		Physical Society.
Friedrichshafen	28.66	727.9	30.07	763.7	64.6	18.1	59	ssw.			1		4	wnw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.84	757.8	29.93	760.2	67.1	19.5	58	wnw.			3		7			0.024	0.6		E. Preller.
Kiel	29.87	758 7	29.89	759.1	64.6	18.1	61	w.			4		3			0.106	2.7		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.58	751.4	29.99	761.8	68.4	20.2	48	wnw.			4		6	wnw.		0.150	3.8	hazy	H. Leppig, Asst.
Magdeburg	29.77	756.1	29.95	760.8	67.5	19.7	60	w.			3	0	6 ks		wnw.	0.177	4.5		Dr. Assmann.
Memel	29.78	756.3	29.82	757.5	67.3	19.6	79	sw.			2	0	8 ks						Issermann.
Munich	28.27	718.1	30.14	765.0	64.2	17.9	50	w.			2		4	w.		0.165	4.2		Dr. C. Lang.
Neufahrwasser	29.82	757.4	29.84	757.8	67.3	19.6	60	wnw.			3		5			0.071	1.8		A. Lothes.
Neustadt, Palatinate	29.50	749.3	30.03	762.7	67.5	19.7	61	w.			2		4			0.256	6.5		Dicknother.
Stuttgart	29.10	739.2	29.97	761.3	67.1	19.5	59	sw.			1		8	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.90	759.5	29.92	760.0	64.8	18.2	70	wnw.			4		8 s			0.055	1.4		Profs. Brandes & Reimer
GREEK.																			
Athens	29.23	742.4			85.5	29.7		sw.			4.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.37	746.0	29.42	747.3	77.0	25.0	99	sw.	32.0	14.3			10			4.92	125.0	raining	
Deesa	28.99	736.3	29.46	748.3	77.0	25.0	89	wsw.					10		w.	0.29	7.4	overcast	
Bombay	29.58	751.4	29.62	752.3	79.5	26.4	90	wsw.	18.0	8.0			10		ssw.	0.32	8.1	overcast	
Poona, Yarrowda	27.77	705 4	29.03	752.6	75.0	23.9	79	wsw.	19.0	8.5			9	w.	w.	1.10	27.9	gloomy	
Trichinopoly	29.48	748 7	29.75	755.7	88.3	31.3	43	nw.	5.0	2.2			8			0	0	d. clouds	
Bellary	28.21	716.6	29.08	753.8	79.0	26.1	63	w.	18.5	8.3			10	w.		0	0	gloomy	
Belgaum	27.17	690.0	29.73	755.1	68.3	20.2	97	wsw.	11.0	4.9			10			2.39	60.7	raining	
Lahore	28.71	729.3	29.42	747.4	95.2	35.1	54	se.	3.4	1.5			4		e.	0	0	d. clouds	
Roorkee	28.55	725.1	29.41	747.0	92.4	33.6	67	calm	3.8	1.7			7			0	0		
Agra	28.89	733.8	29.44	747.7	91.3	32.9	67	se.	5.5	2.5			6		s.	0.04	1.0	d. clouds	
Nagpur	28.42	722.0	29.46	748.2	77.4	25.2	83	w.	6.2	2.8			10		w.	0.41	10.4	overcast	
Jubbulpore	28.10	713.6	29.42	747.3	83.6	28.7	77	nnw.	4.9	2.2			8			0.04	1.0	d. clouds	
Lucknow	29.06	738.2	29.43	747.4	95.0	35.0	57	calm	0.5	0.2			4	ese.		0	0		
Allahabad	29.10	739.3	29.41	746.9	91.4	33.0	67	ne.	2.2	1.0			6	se.		0.01	0.3	d. clouds	
Patna	29.29	744.0	29.47	748.6	89.4	31.9	73	ene.	5.1	2.3			6	ene	ene.	0	0	d. clouds	
Hazaribagh	27.47	697.6	29.43	747.5	82.8	28.2	70	ese.	13.3	5.9			8	e.		0	0		
Cuttack	29.29	743.9	29.37	740.0	82.0	27.8	89	ssw.					9			8.00	203.2	d. clouds	
Calcutta, Allpore	29.40	746.8	29.42	747 4	81.8	27.7	86	se.	9.0	4.0			8		se.	0.40	10.2	d. clouds	
Dhubri	29.35	745.4	29.46	748.3	85.2	29.6	80	ne.	4.2	1.9			5			0.10	2.5	d. clouds	
Chittagong	29.40	746.9	29.49	749.1	85.2	29.6	76	se.	3.7	1.6			7			0	0	d. clouds	
Sibsagar	29.16	740.6	29.48	748.9	89.6	32.0	69	ne.	1.7	0.8			0			1.30	33.0	blue sky	
Jeypore	28.03	711.9	29.44	747.7	85.2	29.6	78	s.	4.0	1.8			8		s.	0.17	4.3	d. clouds	
Zanzibar, Africa	30.08	764.0			80.6	27.0	62	s.	10.0	4.5			5		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.51	749.5	29.90	759.4	74.8	23.8	55	sw.	1.8	0.8			4			0	0		Prof. Giovanni Clodig.
Milan	29.39	746.4	29.88	759.0	80.1	26.7	20	ne.	6.3	2.8			1			0	0		Prof. Schiaparelli.
Padua	29.76	756.0	29.87	758.7	77.5	25.3	52	se.					1	nnw.		0.008	0.2		Prof. Dott. Lorenzoni.
Moncalieri	29.02	737.0	29.88	759.0	78.4	25.8	27	se.	1.8	0.8			0			0	0		Prof. P. F. Denza.
Genoa	29.70	754.4	29.89	759.1	80.6	27.0	27	n.	4.9	2.2			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.04	712.1	29.87	758.6	74.8	23.8	27	nw.			2		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.84	758.0	29.89	759.2	73.8	23.2	50	ene.	8.1	3.6			1			0	0		Prof. Luigi Guidi.
Florence	29.61	752.2	29.86	758.4	82.4	28.0	21	n.			4		0			0	0		Prof. Costantino Pitter
Leghorn	29.76	755.9	29.84	758.0	73.6	23.1	66	w.	6.3	2.8			3			0	0		Prof. P. Monte.
Rome	29.66	753.3	29.83	757.6	83.1	28.4	22	n.	23.0	10.3			1	n.		0	0		Prof. P. S. Ferrari.
Lecce	29.49	749.0	29.73	755.1	73.0	22.8	51	n.	24.8	11.1			5	nw.		0	0		Prof. C. de Giorgi.
Cosenza	28.92	734.5	29.77	756.1	78.1	25.6	71	wnw.	3.1	1.4			3	nw.		0	0		Prof. D. Conti.
Cagliari	29.70	754.3	29.88	759.0	78.3	25.7	33	nw.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.64	752.9	29.88	759.0	75.9	24.4	47	nw.	16.8	7.5			1			0	0		Prof. G. Ciacciatore.
Syracuse	29.77	756.2	29.82	757.3	78.4	25.8	55	nne.	22.4	10.0			2	wnw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.28	743.7	29.78	756.4	79.7	26.5	46	w.	1.3	0.6			3	w.		0	0		Prof. T. Brioschi.
Stelvio	22.25	565.1			41.0	5.0	58	ne.			2		2			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.28	566.0			51.1	10.6	60	ne.			2		0			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.93	760.2	29.94	760.5	58.0	14.4	90	calm	0	0			7			0	0	cloudy	
Hiroshima, I. M. Obs'y					73.2	22.9	87	wsw.	1.4	0.6		0	0			0	0	clear	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.78	756.4	29.95	760.7	74.7	23.7	67	ssw.	2.1	0.9		0	1 ck			0	0	clear	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.73	755.1	29.92	760.1	72.6	22.6	91	calm	0	0		0	0			0	0	clear	S. Takehayashi.
Nemuro	29.96	761.0	30.02	762.5	60.0	15.6	87	sw.	9.0	4.0		10	0			0	0	cloudy	
Niigata	29.93	760.2	29.97	761.2	68.3	20.1	87	ne.	0.5	0.3		2ck;cs	4 ck;s			0	0	cloudy	M. Morita.
Nobiru	29.97	761.1	29.98	761.6	65.8	18.8	84	s.	9.6	4.3			10 s			0	0	covered	H. Midzushina.
Osaka	29.95	760.7	29.96	761.0	74.0	23.3	85	wsw.	6.5	2.9		0	1 s			0	0	clear	
Supporo					61.8	16.6	85	se.	6.6	2.9			4			0	0	clear	
Tokei Obs'y, Yeddo	29.92	759.9	30.00	762.0	69.2	20.7	77	se.	8.7	3.9		0	1 ck		e.	0	0	clear	The Staff.
Wakayama	29.91	759.7	29.96	761.0	74.1	23.4	84	sw.	3.7	1.7		0	0			0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	30.10	764.5	30.30	769.6	70	21.1	61	ese.	20.5	9.2		0	[n 10k;ks]		ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.78	604.0	30.00	762.0	58.1	14.5	81	ene.				8 c	0			0.011	0.3	cloudy	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.03	762.7	59.5	15.3	87	wsw.			1	10 c	0	sw.		0.016	0.4	covered	Prof. M. Leal.
Mazatlan	29.77	756.1	30.03	762.6	77.0	25.0	75	nnw.	1.6	0.8		0	8 n		se.	0	0	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.20	589.2	30.23	767.9	55.9	13.3	82	calm	0	0			10 kn		e.	0.437	11.1	covered	The Staff.
Morelia	24.30	617.3	30.36	771.0	58.1	14.5	70	n.			1	1	1	s.	s.	0	0	clear	M. Tena, M. D.
Orizaba	26.17	664.7	30.15	765.7	61.9	16.6	78	s.	0.9	0.4		0	0			0	0	fine	Prof. M. M. Cházaro.
Pabellon, Aguascallentes	24.03	610.4	30.02	762.6	59.2	15.1	85	calm			0	5 cs	0			0.260	6.6	½ cloudy	M. V. de Leon, M. E
Puebla, Catholic Institute	24.37?	596.1?	30.18	766.7	55.4	13.0	83	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.30	617.2	30.27?	767.8?	67.1	19.5	65	wsw.				3	5	w.	e.	0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.63	574.9	30.23	767.9	59.5	15.3	81	n.	4.3	1.9		8 c	0			0	0		J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.96	761.0	29.96	761.0	67.3	19.6		w.			2					0.197	5.0		
Groningen	29.87	758.6	29.92	760.0	65.3	18.5		w.			2					0.028	0.7		
Helder	29.90	759.4	29.90	759.4	64.0	17.8		wsw.			4					0.063	1.6		
Hellevoetsluis	29.95	760.8	29.95	760.8	65.8	18.8	75	w.			2					0.106	2.7		
Utrecht	29.91	759.7	29.96	760.9	65.8	18.8	78	sw.			3		8			0.008	0.2	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.61	752.2	29.68	753.8	59.0	15.0	70	w.	9	4			9			0	0		
Brono	29.32	744.7	29.36	745.7	56.8	13.8	90	sw.	18	8			10			0.110	2.8		
Christiania	29.40	746.7	29.54	750.2	68.0	20.0	57	sw.	7	3			6			0.004	0.1		
Gjæsvær	29.09	738.9	29.11	739.5	53.4	11.9		wnw.			4		9						
Lodingen	29.18	741.2	29.23	742.4	54.9	12.7	93	w.			4		10			0.024	0.6	rain and fog.	
PORTUGUESE.																			
Angra, Azores					71.6	22.0	69	w.	8.7	3.9			3			0	0		Dr. J. A. Sampaio.
Campo Major	28.99	736.4	29.93	760.3	87.8	31.0	28	wsw.	3.8	1.7			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.05	763.2	30.13	765.4	71.8	22.1	66	sw.	8.7	3.9			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.71	754.5	30.06	763.4	74.8	23.8	40	n.	10.5	4.7			0			0	0		The Staff.
Ponta Delgada, Azores	30.09	764.2	30.16	766.0	77.0	25.0	63	sw.	3.1	1.4			4			0	0		
Saint Paul de Loando	29.88	759.0	30.09	764.2	69.8	21.0	82	n.	0.7	0.3			0			0	0		
Serra da Estrella	25.34	643.6	29.88	758.9	68.0	20.0	68	nw.	6.9	3.1			0			0	0		
RUSSIAN.																			
Akmolinski	28.77	730.8	29.81	757.2	66.7	19.3	32	nne.	11	5		9 cs	0			0	0		Major K. Lasarew.
Archangel	29.58	751.3	29.60	751.8	66.4	19.1	63	sw.	4	2		0	6 ks			0.323	8.2		Capt. Sselliwerstow.
Astrakhan	29.94	760.5	29.86	758.4	84.7	29.3	42	ese.	18	8		cs	2 s			0	0		Capt. Wisganow.
Barnaul	29.10	739.0	29.58	751.4	55.6	13.1	91	nw.	18	8			10			0.528	13.4		Meteorological Obs'y.
Dorpat	29.48	748.8	29.71	754.6	77.0	25.0	58	sw.	9	4			9 kn			0	0		Observatory.
Ekaterinburg	29.08	738.5	29.99	761.7	79.0	26.1	20	wsw.	4	2		ck	4 ks			0	0		Meteorological Obs'y.
Irkutsk	27.97	710.5	29.49	749.1	82.9	28.3	66	calm	0	0			9 ks;s			0	0		
Kasan	29.70	754.3	29.95	760.7	79.2	26.2	51	sse.	13	6			10			0	0		Observatory.
Kertch	29.60	751.8	29.62	752.3	81.9	27.7	77	nne.	18	8		0	2 k			0	0		Lagorio & Sastyrez.
Kieff	29.21	742.0	29.82	757.3	75.0	23.9	39	ene.	7	3		ck	4 ks			0	0		Observatory.
Lugan	29.58	751.2	29.77	756.2	77.9	25.5	73	ene.	18	8			9			0.004	0.1		Meteorological Obs'y
Moscow	29.43	747.6	29.88	759.0	74.1	23.4	45	nw.	4	2			5 ks						Meteorological Obs'y.
Nikolaiev	29.65	753.0	29.72	754.8	86.9	30.5	46	ene.	13	6		0	2 k			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.53	750.1	29.67	753.7	79.3	26.3	77	calm	0	0		2 cs	0			blank	blank		Physical Observatory
St. Petersburg	29.71	754.7	29.73	755.1	69.1	20.6	61	s.	7	3			10 n			0.209	5.3		Central Physical Obs'y
Semipalatinsk	29.08	738.6	29.72	754.8	61.9	16.6	81	nw	16	7			10			0	0		Major Lasarew.
Tashkend, Laboratory	28.11	713.9	29.56	750.9	85.0	29.8	32	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.35	720.2	29.66	753.4	94.1	34.5	36	s.	4	2		0	7 k			0	0		Physical Observatory
Vladivostock	29.80	756.9	29.87	758.6	60.1	15.6	94	se.	9	4			10 n						
Warsaw	29.47	748.4	29.87	758.7	70.2	21.2	58	n.	4	2			10 ks						Astronomical Obs'y
Wilna	29.41	747.0	29.81	757.1	76.3	24.6	62	wsw.	4	2			9			0.039	1.0	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.68	753.9	29.97	761.1	52.9	11.6	100	wnw.	11	5			8			0.236	6.0	raining	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.83	757.7	29.93	760.2	78.8	26.0	62	sw.	7.4	3.3			1					clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.88	758.9	29.94	760.4	86.0	30.0	39	nw.	2.7	1.2		0	0			0	0	clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.09	688.1	29.92	759.9	77.4	25.2	30	n.	2.9	1.3			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.80	706.2	29.89	759.3	87.3	30.7	40	sw.	6.3	2.8		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director.
Santiago, Met. Obs'y	29.10	739.1	29.97	761.2	71.4	21.9	37	sw.	12.5	5.6			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I																			Benito Vines, S. J.
Manilla, Philippine Islands	29.80	756.9	29.85	758.3	82.0	27.8	82	sw.	16.7	7.5			9 kn		sw.	0	0	threatening.	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.91	759.8	30.01	762.3	81.1	27.3	56	s.	12.2	5.5		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.07	763.7	30.16	766.0	86.4	30.2	73	e.	5.6	2.5		2 s	2 k	e.	e.	0	0		Manuel Maese.
Tuguegarao, Philippine Id's	29.70	754.4	29.83	757.7	79.2	26.2	84	nne.	3.3	1.5		5 cs	4 ks	e.	ne.	inap.	inap.	overcast	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.32	744.7	29.36	745.7	52.5	11.4	93	sw.			4		10			0	0		
Umea	29.35	745.5	29.40	746.8	59.0	15.0	77	sw.			4		8			0	0		
Hernosand	29.38	746.3	29.43	747.6	64.8	18.2	51	sw.			4		6			0.465	11.8		
Stockholm	29.41	747.0	29.59	751.5	70.2	21.2	46	wsw.			4		2			0	0		
Wisby	29.60	751.7	29.65	753.2	64.8	18.2	67	w.			4		3			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Sub-series.																			
Upsala	29.47	748.4	29.55	750.6	69.3	20.7	51	sw.	12.8	5.7			6		wsw.	0	0		S. G. Fileman.
SWISS.																			
Geneva	28.64	727.5	30.03	762.8	65.7	18.7	55	n.			2					0.004	0.1	clear	The Observatory
SCOTTISH.																			
Monach Lt			29.48	748.8	55	12.8	94	s.			4		fg.			0.3	8.	foggy	J. Youngclause.
North Unst			29.76	755.9				w.			3	4	4	nw.					
TURKISH.																			
Constantinople			29.61	752.0	78.1	25.6	61	ne.	3	1.5			7		n.	0	0		The Observatory.
Valona			29.85	758.2	75.7	24.3		nw.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.66	753.4	86.0	30.0	60	wsw.			2	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.61	752.1	29.69	754.1	66.5	19.2	86	w.	3	1.3			10 s		nw.	0.99	25.1	cloudy	J. O. Barnes.
Alpena, Michigan	29.16	740.7	29.80	756.9	57	13.9	80	w.	4	1.8			10 s			inap.	inap.	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.08	637.0	29.82	757.4	52	11.1	41	ne.	2	0.9		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.22	691.4	29.95	760.7	62	16.7	38	se.	16	7.2		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.89	733.8	30.03	762.7	70.0	21.1	84	nw.	9	4.0		8 c	0	w.		0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.82	757.4	29.83	757.7	70	21.1	94	sw.	12	5.4			10 s		calm	0.31	7.9	cloudy	Jas. M. Watson.
Augusta, Georgia	29.84	757.9	30.03	762.7	75.0	23.9	85	sw.	5	2.2			10 s		w.	0.32	8.1	cloudy	John Healy.
Baltimore, Maryland	29.81	757.2	29.86	758.4	75	23.9	69	nw.	10	4.5		7 cs	0	w.		0.24	6.1	fair	Robert Seyboth.
Barnegat, New Jersey	29.80	756.9	29.82	757.4	73.5	23.1	95	sw.	13	5.8			10 s		w.	0.08	2.0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.62	726.9	30.16	766.1	48	8.9	93	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.25	692.1	29.96	761.0	49	9.4	71	e.	1	0.4		0	0			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	29.99	761.7	30.01	762.2	46.0	7.8		s.	2	0.9			10 s			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.42	721.9	30.14	765.5	51	10.6	93	nw.	4	1.8		0	0			0.13	3.3	clear	Cyrus Cramer.
Block Island, Rhode Island	29.75	755.6	29.78	756.4	69.5	20.8	97	sw.	27	12.1			fg.			0.10	2.5	dense fog	J. T. Elker.
Boise City, Idaho	27.20	690.9	29.92	760.0	62	16.7	58	nw.	3	1.3		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.58	751.3	29.73	755.1	71.0	21.7	94	s.	11	4.9			10 n			0.01	0.3	heavy rain	O. B. Cole.
Brownsville, Texas	30.00	762.0	30.04	763.0	80.0	26.7	91	s.	2	0.9		2 cs	0	calm		0	0	clear	M. McCarty.
Buffalo, New York	29.06	738.1	29.79	756.7	65.5	18.6	76	s.	19	8.5		2 ck	0	sw.		0.08	2.0	clear	Wm. Finn.
Buford, Fort, Dakota	28.17	715.5	30.11	764.8	45	7.2	71	s.	1	0.4		0	0			0.13	3.3	clear	A. H. Bell.
Burlington, Vermont	29.42	747.3	29.70	754.4	65.0	18.3	93	w.	1	0.4			10 n		sw.	0.10	2.5	light rain	G. C. Schaeffer.
Cairo, Illinois	29.69	754.1	30.08	764.0	73.8	23.2	56	n.	7	3.1		0	0			0	0	clear	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.21	691.1	29.80	756.9	76	24.4	43	calm			0	2 ck	3 k	w.	w.	0	0	fair	J. T. Fitzgerald.
Cape Henry, Virginia	29.90	759.4	29.92	760.0	79	26.1	82	sw.	17	7.6			10 ks		sw.	0.90	22.9	cloudy	A. K. Alderson.
Cape May, New Jersey	29.83	757.7	29.86	758.4	72.0	22.2	84	sw.	14	6.3		0	8 s		w.	0.03	0.8	cloudy	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	80	26.7	79	sw.	10	4.5		0	3 k		s.	inap.	inap.	clear	F. W. Mixer.
Champaign, Illinois	29.15	740.4	29.94	760.5	60.2	15.7	75	w.	9	4.0		0	0			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.01	762.2	30.06	763.5	81	27.2	77	sw.	8	3.6		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.12	739.6	29.95	760.7	77.0	25.0	69	nw.	3	1.3		4 c	0	w.		0.25	6.3	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.24	742.7	30.04	763.0	68.5	20.3	92	sw.	6	2.7		4 cs	fg.	sw.		0.14	3.6	fair	B. L. Goulding.
Cheyenne, Wyoming	24.32	617.7	30.01	762.2	39.3	4.1	59	nw.	2	0.9		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.21	741.9	29.90	759.4	60.0	15.9	85	w.	5	2.2		7 k	0	w.		inap.	inap.	fair	J. Mitchell.
Chincoteague, Virginia	29.86	758.4	29.88	758.9	75	23.9	90	sw.	8	3.6		8 s	0	sw.		0.15	3.8	cloudy	V. P. Temple.
Cincinnati, Ohio	29.32	744.7	29.96	761.0	66.8	19.3	65	w.	5	2.2		0	0			0.11	2.8	clear	J. F. Harrold.
Cleveland, Ohio	29.16	740.7	29.88	758.9	62	16.7	81	w.	10	4.5		9 k	0	w.		0.11	2.8	cloudy	J. B. Newlin.
Coleman City, Texas	28.38	720.8	30.14	765.5	64	17.8	93	nw.	20	8.9			10 n		nw.	0.11	2.8	thund'r st'm	L. Dorman.
Columbus, Ohio	29.09	738.9	29.92	760.0	62	16.7	73	w.	6	2.7		4 ck	0	w.		0	0	fair	D. Cuthbertson.
Concho, Texas	28.21	716.5	30.09	764.3	70	21.1	71	n.	10	4.5			10 s		s.	0	0	cloudy	W. W. McConihe.
Custer, Fort, Montana	27.01	686.0	30.03	762.7	46	7.8	85	s.	3	1.3		0	0			0	0	clear	V. Verge.
Davenport, Iowa	29.32	744.7	29.95	760.7	58	14.4	80	nw.	7	3.1		9 k	0	nw.		inap.	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	25.27	641.8	29.91	759.7	68	20.0	39	e.	4	1.8		0	8 ks			0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.22	716.8	29.93	760.2	64.0	17.8	73	sw.	5	2.2		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.65	651.5	30.07	763.8	44.0	6.7	80	w.	3	1.3		0	0			0.01	0.3	clear	G. W. Scott.
Decatur, Texas					67	19.4	100	s.	8	3.6			10 n		n.	4.19	106.4	light rain	D. J. Carr.
Delaware Breakwater, Del.	29.83	757.7	29.85	758.2	73	22.8	84	w.	24	10.7			10 s		sw.	0.20	5.1	cloudy	A. Schneider.
Denison, Texas	29.34	745.2	30.12	765.0	68.6	20.3	90	calm	0	0			10 s			0.29	7.4	cloudy	J. McGlone.
Denver, Colorado	25.00	635.0	30.01	762.2	53.0	11.7	52	nw.	9	4.0		0	2 k			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.19	741.4	30.07	763.8	54	12.2	86	nw.	7	3.1		0	7 s		nw.	0.01	0.3	fair	F. W. Conrad.
Detroit, Michigan	29.17	740.9	29.86	758.4	61.3	16.3	78	w.	8	3.6		0	0			inap.	inap.	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.68	703.1	30.18	766.6	58.0	14.4	77	e.	3	1.3		0	9 ks		nw.	inap.	inap.	cloudy	W. M. Mattingly.
Dubuque, Iowa	29.23	742.4	29.92	760.0	57.5	14.2	80	w.	5	2.2		1 cs	8 ks	nw.	w.	0.02	0.5	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.28	743.7	30.00	762.0	58	14.4	80	nw.	18	8.0			10 s		nw.	0.05	1.3	cloudy	N. B. Conger.
Eagle Pass, Texas	29.28	743.7	30.06	763.5	77.0	25.0	82	se.	6	2.7			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.34	643.6	29.89	759.2	46	7.8	58	n.	2	0.9		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.79	756.7	29.85	758.2	56.0	13.3	80	s.	10	4.5			fg		s.	0	0	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.42	696.5	30.06	763.5	61	16.1	67	calm	0	0		10 k	0			0.81	20.6	cloudy	W. J. Cundall.
El Paso, Texas	26.37	669.8	29.97	761.2	75	23.9	50	sw.	8	3.6		10 k	0	w.		0	0	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.14	740.1	29.85	758.2	66	18.9	73	sw.	4	1.8		0	0			0.04	1.0	clear	Peter Wood.
Escanaba, Michigan	29.21	741.9	29.85	758.2	55	12.8	93	nw.	7	3.1			10 s		nw.	0.30	7.6	cloudy	C. Dill.
Fredericksburg, Texas	28.35	720.1	30.05	763.3	73	22.8	84	calm	0	0		5 cs	0			0	0	fair	H. S. Miles.
Galveston, Texas	30.05	763.3	30.10	764.5	80	26.7	82	se.	12	5.4		9 cs	0	nw.		0.01	0.3	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.21	741.9	29.86	758.4	63.0	17.2	78	w.	11	4.9		0	2 k		w.	0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.30	642.6	29.87	758.7	79.3	20.3	38	nw.	14	6.3		0	8 s			0	0	cloudy	Robert O. Lord.
Hatteras, North Carolina	29.97	761.2	29.99	761.7	81.0	27.2	88	sw.	28	12.5		6 k	3 k	sw.	w.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.89	657.6	29.95	760.7	52	11.1	55	se.	3	1.3		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.21	741.9	30.19	766.8	72.0	22.2	97	n.	5	2.2			10 n			0.36	9.1	light rain	J. W. Byram.
Huron, Dakota	28.82	732.0	30.14	765.5	48.8	9.3	86	nw.	8	3.6		0	0			0.03	0.8	clear	S. W. Glenn.
Indianapolis, Indiana	29.17	740.9	29.94	760.5	66	18.9	63	sw.	2	0.9		0	0			inap.	inap.	clear	O. Schutze
Indianola, Texas	30.07	763.8	30.10	764.5	80.0	26.7	91	s.	5	2.2		4 ck	2 ks	ne.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.99	736.3	30.11	764.8	69	20.6	100	ne.	8	3.6			10 n		ne.	0.41	10.4	thnd'r str'm	J. P. Sherry.
Jacksonville, Florida	30.03	762.7	30.07	763.8	81	27.2	74	sw.	6	2.7		2 cs	0			inap.	inap.	clear	J. W. Smith.
Keogh, Fort, Montana	27.71	703.8	30.12	765.0	53	11.7	69	se.	4	1.8		0	0			0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.34	745.2	29.97	761.2	60.0	15.6	81	nw.	10	4.5		0	0			0	0	clear	F. Z. Gosewisch
Key West, Florida	30.09	764.3	30.11	764.8	83.0	28.3	80	s.	2	0.9			10 ks			0	0	cloudy	R. H. Paxton.
Kittyhawk, North Carolina	29.96	761.0	29.98	761.5	79.5	26.4	80	sw.	22	9.8		1 c	6 ks; s		sw.	0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.02	737.1	30.02	762.5	64.3	17.9	100	calm	0	0			10 s; fg			1.17	29.7	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.17	740.9	29.92	760.0	59	15.0	75	n.	10	4.5			10 s			0.03	0.8	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.17	664.7	29.91	759.7	72.8	22.7	50	se.	4	1.8			10 s			0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.29	744.0	30.15	765.8	58	14.4	74	nw.	4	1.8		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.10	739.1	29.91	759.7	70.0	21.1	43	e.	4	1.8			10 s		sw.	0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.80	756.9	30.11	764.8	71	21.7	71	nw.	3	1.3		3 c	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.61	752.1	30.00	762.0	58.1	14.5	93	se.	3	1.3			fg			0	0	light fog	E. F. Kubel.
Louisville, Kentucky	29.43	747.5	29.98	761.5	68.5	20.3	64	w.	3	1.3		4 c	0	w.		0.44	11.2	fair	H. C. Smyth.
Lynchburg, Virginia	29.23	742.4	29.90	759.4	75.0	23.9	64	sw.	4	1.8		1 cs	1 ks			0.85	21.6	clear	W. R. Bushby.
Macon, Fort, North Carolina	29.99	761.7	30.00	762.0	79	26.1	88	sw.	27	12.1		6 cs	4 ks	sw.	sw.	0.97	24.6	cloudy	F. P. Chaffee.
Madison, Wisconsin	28.90	734.0	29.88	758.9	57	13.9	93	nw.	8	3.6		4 cs	6 s	w.	nw.	0.01	0.3	cloudy	C. A. Shaw.
Maginnis, Fort, Montana																			H. W. Dodge.
McKavett, Fort, Texas	27.90	708.6	30.10	764.5	74	23.3	76	nw.	8	3.6			10 ks		s.	0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.19	741.4	29.90	759.4	56	13.3	74	nw.	17	7.6		4 ck	0	nw.		0.12	3.0	fair	J. Gilligan.
Memphis, Tennessee	29.76	755.9	30.09	764.3	70	21.1	76	nw.	5	2.2		4 cs	0	sw.		0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.15	740.4	29.88	758.9	58	14.4	80	nw.	6	2.7		5 c	0			inap.	inap.	fair	W. Line.

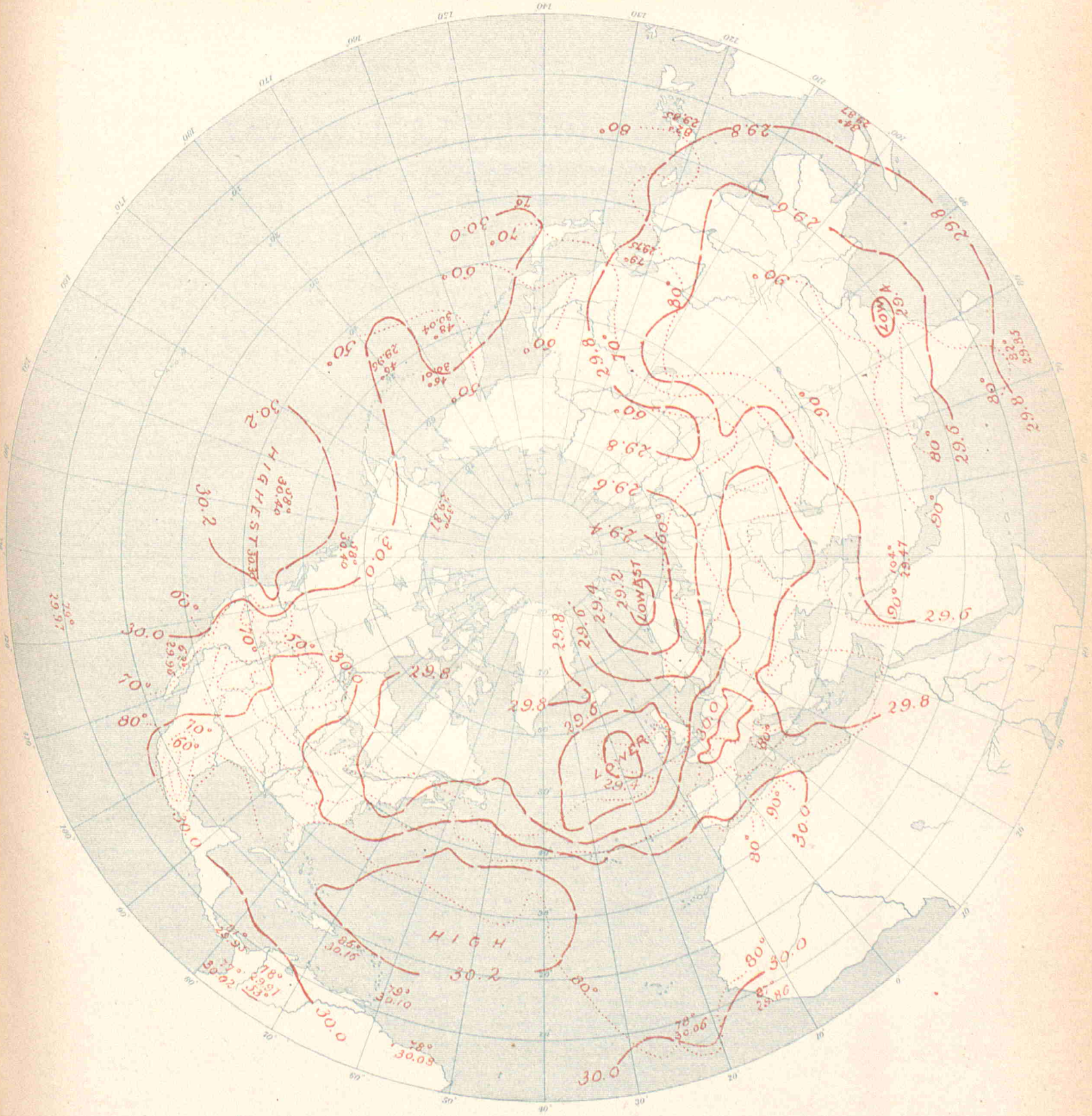
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.76	679.7	29.95	760.7	56	13.3	53	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.03	762.7	30.07	763.8	72	22.2	97	w.	2	0.9	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	C. A. Read.
Montgomery, Alabama	29.82	757.4	30.04	763.0	72.4	22.4	89	nw.	2	0.9	.....	4 cs	0	nw.	.....	2.47	62.7	fair	J. B. McLaughlin
Moorhead, Minnesota	29.17	740.9	30.13	765.3	50	10.0	86	n.	8	3.6	.....	0	0	.....	.....	0.39	9.9	clear	H. Bessant.
Morgantown, W. Virginia	28.96	735.6	29.96	761.0	66.5	19.2	89	sw.	4	1.8	.....	.....	10 s	.....	sw.	0.20	5.1	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.67	601.2	29.74	755.4	47.0	8.3	96	se.	52	23.3	.....	.....	10n;fg	.....	se.	0.13	3.3	light rain	J. G. Lipsley
Nashville, Tennessee	29.51	749.5	30.03	762.7	70.0	21.1	68	w.	2	0.9	.....	4 cs	fg.	sw.	.....	0.88	22.4	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.60	751.8	29.71	754.6	72	22.2	90	s.	14	6.3	.....	.....	10 n	.....	s.	0.45	11.4	light rain	J. H. Sherman.
New London, Connecticut	29.70	754.4	29.75	755.6	71	21.7	100	s.	16	7.2	.....	.....	10 n	.....	sw.	0.14	3.6	light rain	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.09	764.3	77.5	25.3	75	sw.	8	3.6	.....	9 cs	1 s	w.	sw.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	29.73	755.1	29.78	756.4	68.8	20.4	98	s.	19	8.5	.....	.....	10 n	.....	sw.	0.11	2.8	light rain	W. McGillivray.
New York, New York	29.59	751.6	29.76	755.9	73	22.8	84	w.	14	6.3	.....	4 cs	0	w.	.....	0.33	8.4	fair	J. B. Merrill.
Norfolk, Virginia	29.89	759.2	29.92	760.0	80	26.7	79	sw.	15	6.7	.....	0	8 ks	.....	sw.	0.70	17.8	cloudy	H. L. Kemp.
North Platte, Nebraska	27.37	695.2	30.17	766.3	47.6	8.7	64	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.11	764.8	30.15	765.8	56.0	13.3	57	s.	3	1.3	.....	.....	10 s	.....	calm	0	0	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.85	758.2	29.87	758.7	36.8	2.7	99	sw.	22	9.8	.....	.....	9 s	.....	w.	0	0	cloudy	P. H. Ray.
Omaha, Nebraska	29.01	736.8	30.14	765.5	53.8	12.1	83	nw.	8	3.6	.....	2 cs	0	.....	.....	0	0	clear	A. Pollak.
Oswego, New York	29.46	748.3	29.78	756.4	66.5	19.2	73	n.	5	2.2	.....	8 k	0	w.	.....	0.04	1.0	cloudy	S. W. Beall.
Palestine, Texas	29.63	752.6	30.17	766.3	70.0	21.1	84	ne.	4	1.8	.....	.....	10 ks	.....	s.	0.09	2.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.04	763.0	30.07	763.8	74.0	23.3	90	w.	2	0.9	.....	.....	10 s	.....	.....	0.09	2.3	cloudy	M. McGauran,
Philadelphia, Pa	29.73	755.1	29.83	757.7	75	23.9	71	w.	9	4.0	.....	3 ck	2 s	sw.	w.	0.48	12.2	fair	T. F. Townsend.
Pike's Peak, Colorado	18.05	458.5	29.83	757.7	32	0.0	57	n.	22	9.8	.....	0	0	.....	.....	0.21	5.3	clear	L. M. Dey.
Pioche, Nevada	24.14	613.1	29.86	758.4	62.2	16.8	29	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.10	739.1	29.90	759.4	66.5	19.2	76	sw.	8	3.6	.....	2 k	0	sw.	.....	inap.	inap.	clear	J. H. Bryce.
Poplar River, Montana	28.10	713.7	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.12	765.0	30.13	765.3	76.0	24.4	85	w.	8	3.6	.....	.....	10 n	.....	.....	0.35	8.9	light rain	M. Hermann.
Port Huron, Michigan	29.16	740.7	29.82	757.4	57.9	14.4	78	sw.	8	3.6	.....	0	3 s	.....	sw.	0.05	1.3	clear	W. O. Bailey.
Portland, Maine	29.67	753.6	29.72	754.9	68	20.0	84	s.	6	2.7	.....	.....	10 n	.....	s.	0.15	3.8	light rain	W. W. Eichelberger.
Portland, Oregon	30.14	765.5	30.21	767.3	54.0	12.2	74	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.87	631.7	29.86	758.4	62	16.7	56	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass	29.74	755.4	29.77	756.1	69.0	20.6	100	s.	17	7.6	.....	.....	10s;fg	.....	.....	0.04	1.0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.10	764.5	30.10	764.5	83	28.3	74	sw.	6	2.7	.....	6 ck	1 ks	s.	calm	0.28	7.1	fair	W. J. Evans.
Red Bluff, California	29.58	751.3	29.94	760.5	70.0	21.1	48	se.	2	0.9	.....	2 c	0	w.	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.83	757.7	30.06	763.5	82.8	28.2	72	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.12	739.6	29.78	756.4	62	16.7	87	sw.	9	4.0	.....	5 c	fg.	w	.....	0.03	0.8	fair	E. W McGann.
Roseburg, Oregon	29.65	753.1	30.19	766.8	49	9.4	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.86	758.4	29.93	760.2	61.4	16.3	78	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.44	747.8	30.02	762.5	63.0	17.2	78	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.14	740.1	29.98	761.5	58	14.4	80	n.	12	5.4	.....	.....	10 s	.....	n.	0.02	0.5	cloudy	P. F. Lyons
St. Vincent, Minnesota	29.28	743.7	30.12	765.0	47	8.3	93	w.	5	2.2	.....	0	0	.....	.....	0.17	4.3	clear	G. Kingsbury.
Salt Lake City, Utah	25.69	652.5	29.87	758.7	65	18.3	34	calm	0	0	.....	9 k	0	w.	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.40	746.7	30.08	764.0	78.5	25.8	88	se.	1	0.4	.....	.....	10 s	.....	s.	0	0	cloudy	T. J. Kenan.
San Diego, California	29.92	760.0	29.99	761.7	62.2	16.8	84	n.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.21	741.9	29.87	758.7	62.9	17.2	78	w.	11	4.9	.....	0	0	.....	.....	0.18	4.6	clear	M. H. Perry.
Sandy Hook, New Jersey	29.73	755.1	29.76	755.9	75.0	23.9	43	w.	20	8.9	.....	1 k	0	w.	.....	0.01	0.3	clear	B. A. Blundon.
San Francisco, California	29.94	760.5	30.01	762.2	54.5	12.5	90	sw.	7	3.1	.....	.....	fg	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.42	594.9	29.92	760.0	61	16.1	58	e.	2	0.9	.....	5 c	0	.....	.....	0	0	fair	H. U. Jones.
Savannah, Georgia	29.94	760.5	30.04	763.0	81.4	27.4	72	sw.	8	3.6	.....	2 c	0	.....	.....	inap.	inap.	clear	H. W. Ford.
Shaw, Fort, Montana	26.43	671.3	29.94	760.5	42	5.6	82	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.87	758.7	30.10	764.5	67	19.4	93	nw.	8	3.6	.....	0	9 s	.....	nw.	2.25	57.1	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.96	735.6	30.16	766.1	67.8	19.9	79	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.33	618.0	29.79	756.7	60	15.6	50	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	30.11	764.8	30.17	766.3	52	11.1	80	w.	7	3.1	.....	.....	10 ks	.....	w.	inap.	inap.	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.68	753.9	30.14	765.5	68.5	20.3	78	e.	2	0.9	.....	9 cs	0	nw.	.....	0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	29.98	761.5	30.01	762.2	80	26.7	82	sw.	12	5.4	.....	1 c	6 k	.....	sw.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.93	709.4	29.91	759.7	55	12.8	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.31	744.5	29.97	761.2	62	16.7	78	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.55	750.6	29.68	753.9	73.8	23.2	90	s.	8	3.6	.....	.....	10 s	.....	s.	0.22	5.6	cloudy	T. S. Outram.
Springfield, Mo	28.71	729.2	30.10	764.5	62.5	16.9	78	w.	10	4.5	.....	2 c	0	w.	.....	0	0	clear	J. B. Marbury.
Starkville, Miss	29.57	751.1	30.04	763.0	77	25.0	82	w	4	1.8	.....	7 ck	0	.....	.....	inap.	inap.	fair	M. J. Wright, jr.
Stevenson, Fort, Dakota	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. Burrows.
Stockton, Fort, Texas	27.12	688.8	30.06	763.5	67.3	19.6	78	e.	12	5.4	.....	.....	10 s	.....	e.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass	29.71	754.6	29.76	755.9	68.0	20.0	97	s.	16	7.2	.....	.....	10n;fg	.....	.....	0.22	5.6	light rain	G. Liebmann.
Toledo, Ohio	29.17	740.9	29.84	757.9	67	19.4	63	w.	11	4.9	.....	0	0	.....	.....	c	0	clear	A. Buell.
Tucson, Arizona	27.57	700.3	29.89	759.2	79	26.1	62	calm	0	0	.....	7 k	0	.....	.....	0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.67	753.6	30.03	762.7	69	20.6	31	w.	20	8.9	.....	3 cs	0	s.	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.11	739.4	30.05	763.3	77	25.0	82	se.	2	0.9	.....	.....	10 ks	.....	s.	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	70	21.1	61	n.	.....	.....	1	4 k	0	w.	.....	0	0	fair	D. Brooks.
Vicksburg, Mississippi	29.84	757.9	30.08	764.0	72	22.2	84	ne.	1	0.4	.....	.....	9 s	.....	calm	1.40	35.6	cloudy	H. P. Brisbane.
Visalia, California	29.55	750.6	29.92	760.0	68	20.0	51	s.	2	0.9	.....	4 cs	0	w.	.....	0	0	fair	W. L. Seward.
Washakie, Fort, Wyoming	24.72	627.9	30.05	763.3	42.0	5.6	70	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	29.78	756.4	29.89	759.2	73.1	22.8	76	w.	4	1.8	.....	3 ck	2 s	w.	.....	0.71	18.0	fair	B. M. Purssell.
West Las Animas, Colorado	26.31	668.3	30.07	763.8	58	14.4	60	e.	4	1.8	.....	.....	8 k; s	.....	nw;sw.	0.06	1.5	cloudy	F. W. Brandenburg.
Williamsport, Pa	29.21	741.9	29.79	756.7	69.5	20.8	80	w.	12	5.4	.....	0	7 ks	.....	w.	0.28	7.1	fair	B. F. Hough.
Wilmington, N. Carolina	29.96	761.0	30.01	762.2	80	26.7	74	w.	12	5.4	.....	0	8s;sk	.....	.....	0	0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.68	652.3	29.90	759.4	71	21.7	25	s.	6	2.7	.....	6 ck	0	sw.	.....	0	0	fair	J. Grover.
Yankton, Dakota	28.91	734.3	30.18	766.6	52	11.1	66	nw.	11	4.9	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.70	754.4	29.84	757.9	81.7	27.6	59	se.	13	5.8	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.08	560.8	.....	.....	52.5	11.4	76	se.	1	0.4	.....	10;ck	8ks;ns	nw.	w.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W.I	30.09	764.3	30.10	764.5	79	26.1	95	e.	.....	.....	.....	5 k	5 ks	e.	.....	0	0	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.99	761.7	30.02	762.5	77	25.0	95	calm	0	0	.....	.....	10 ks	.....	calm	3.10	78.7	threatening.	J. I. Plume.
Kingston, Jamaica, W. I.	30.08	764.0	30.09	764.3	82.1	27.8	73	ese.	8	3.6	.....	2 c	1 ks	ne.	e.	0	0	fine	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	71	21.7	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa	29.97	761.2	30.05	763.3	81.5	27.5	68	e.	8	3.6	.....	7 ck	1 s	se.	e.	0	0	hazy	F. M. Everett.
Paramaribo, S. A.	30.08	764.0	30.08	764.0	78	25.6	86	se.	.....	.....	2	4 c	5 k	e.	e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.41	747.0	29.97	761.2	78	25.6	84	calm	.....	.....	0	5 ck	5 k	calm	s.	0.47	11.9	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	96	ne.	.....	.....	2	6 cs	1 ks	ne.	ne.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.09	764.3	30.12	765.0	81	27.2	74	calm	0	0	.....	3 c	0	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A.	29.73	755.1	29.80	756.9	57.0	13.9	94	s.	12	5.4	.....	.....	10 s	.....	s.	1.50	38.1	cloudy	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, S. 17° 40′, W. 3° 25′	30.23	767.8	68	20.0	96	se.			2		9							d. clouds.
H. M. S. Amethyst, Montevideo, Uruguay	29.74	755.4	61	16.1	94	ne.			2		8	nw.						d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.59	751.6	81	27.2		n.			1–2		5	nnw.						d. clouds.
H. M. S. Bacchante, N. 36° 37′, W. 2° 24′	30.02	762.5	71	21.7	90	ene.			4		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.21	767.3	62	16.7		ese.			3		0							blue sky.
H. M. S. Champion, N. 31° 25′, E. 142° 45′			76	24.4	100	n.			3–4		4					3	n.	d. clouds.
H. M. S. Comus, N. 46° 42′, E. 162° 03′	30.04	763.0	48	8.9	85	nnw.			1		8					1	w.	misty
H. M. S. Diamond, S. 5° 46′, E. 153° 50′	29.93	760.2	81	27.2	91	sse.			2		7					1	sse.	showery.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.11	764.8	79	26.1		e.			2		2	e.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.27	768.8	80	26.7	82	sse.			1–2		4	sse.						d. clouds.
H. M. S. Druid, N. 24° 00′, W. 71° 40′	30.21	767 3	82	27.8	87	ese.			3–4		3	e.				2	ese.	d. clouds.
H M. S. Eclipse, S 6° 22′, E. 39° 21′	30.09	764.3	81	27.2		s.			3		3					1	ssw.	d. clouds.
H. M. S. Emerald, S. 4° 50′, W. 17° 45′	30.13	765.3	76	24.4	100	e.			2–3		3	ese.				2	ese.	d. clouds.
H. M S. Euryalus, S. 4° 30′, E. 72° 00′	29.85	758.2	82	27.8	83	sw.			2		6	calm				3	sw.	d. clouds.
H. M. S. Espiegle, S. 15° 59′, E. 167° 12′	29.97	761.2	73	22.8	76	se.			2		3	ne.				1	e.	squally.
H. M. S. Fantome, Saint Lucia, Jamaica	30.08	764.0	83	28.3		ne.			1		4	ne.						d. clouds.
H. M. S. Fawn, S. 33° 09′ E. 28° 13′	30.24	768.1	65.5	18.6	83	ssw.			1		0					3	s.	blue sky.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.12	765.0	58.5	14.7	94	se.			2		10							drizzling.
H. M. S. Griffon, N. 51° 20 W. 55° 34′	29.88	758.9	52	11.1	86	s.			1		1							blue sky.
H. M. S. Iris, Port Said, Egypt	29.94	760.5	80	26.7	82	nw.			4–6		0					2	wnw.	misty.
H. M. S. Iron Duke, N. 41° 24′, E. 139° 19′	30.00	762.0	63	17.2	94	calm			0		10							d. clouds
H. M. S. Kingfisher, N. 40° 00′, W. 124° 30′	30.02	762.5	51	10.6		nnw.			6–8		8					7	nnw.	squally.
H. M. S. Lark. S. 10° 16′, E. 161° 35′	29.94	760.5	79.3	26.3	88	e.			2		3					1	e.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.00	762.0	55.5	13.1		n.			6		10					4	n	raining.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	29.91	759.7	75.1	23.9	88	calm			0		0							blue sky.
H. M. S. Minotaur, N. 34° 29′, E. 32° 30′	29.63	752.6	78	25.6	84	ssw.			1		2					1	wsw.	misty.
H. M. S. Nelson, S. 36° 50′ E. 174° 49′	29.68	753.9	56	13.3	74	s.			2		2							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.87	758.7	64.5	18.1	81	calm			0		5	ssw.						d. clouds.
H. M. S. Orion, N. 39° 25′, W. 9° 35′	30.08	764.0	63.5	17.5		nnw.			2–3		2	nnw.				2	wnw.	d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.87	758.7	83.5	28.6	83	s.			2		2							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Is'd	30.17	766.3	70	21.1	95	se.			1		9	se.						d. clouds.
H. M. S. Rocket, Vancouver Island, B. C.	30.07	763.8	54	12.2	93	nw.			1		1							squally.
H. M. S. Sappho, Tahiti, Society Islands, Oceania	30.00	762.0	72.5	22.5		se.			2		0							blue sky.
H. M. S. Swiftsure, S. 27° 50′ W. 45° 20′	30.24	768.1	70.5	21.5	90	ne.			4		3					3	n.	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.79	756.7	57.5	14.2	93	ne.			1		8	sw.						d. clouds.
H. M. S. Tamar, N. 35° 07′, E. 22° 10′	29.77	756.1	75.5	24.2	86	wsw.			2		0					2	wsw.	blue sky.
H. M. S. Tenedos, N. 49° 15′ W. 58° 23′	29.85	758.2	54	12.2	86	calm			0		5							d. clouds.
H. E. S. Tourmaline, N. 35° 38′, E. 17° 10′	29.85	758.2	77	25.0		nnw.			5		0					2	wnw	blue sky.
H. M. S. Triumph, Talcahuano, Chili	29.73	755.1	49	9.4	93	var.			1		10	calm						raining.
H. M. S. Woodlark, Mohammera, Persia	29.37	746.0	103.5	39.7	28	nw.			4–5		0							blue sky.
H. M. S. Zephyr, N. 27° 44′, E. 122° 50′	29.79	756.7	83	28.3	95	se.			4		2	e.				2	se.	d. clouds.
Portuguese Naval.																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.07	763.7	77.9	25.5	88	ne.			3		3					2		d. clouds.
Tamega, Macao, China	29.57	751.1	85.1	29.5	78	calm			0		2							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.01	762.2	75	23.9	90	calm	0	0			10			0.48	12.2			cloudy.
Navy Yard, Portsmouth, N. H	29.73	755.1	67	19.4	84	sse	4	1.8			10			0.01	0.3			raining.
Naval Hospital, Yokohama, Japan*	29.85	758.2	70	21.1	82	sse.			1		0			0	0			clear.
Adams, Mare Island, Cal	30.03	762.7	60	15.6		sw.			1–2		0			0	0	sm'h		clear.
Alaska, Callao, Peru	30.06	763.5	58	14.4	94	ese.			1		10			0	0	sm'h		cloudy.
Alert, N. 45° 24′, W. 144° 01′*	30.25	768.3	58	14.4	76	se.			4		10		se.	0	0	sm'h		cloudy.
Alliance, Boston, Mass	29.74	755.4	75	23.9	90	ssw.			2		10			light	light			cloudy.
Ashuelot, Yokohama, Japan*	29.90	759.4	71	21.7	85	se.			2		2		calm					clear.
Brooklyn, Rio de Janeiro, Brazil	30.30	769.6	69	20.6	95	ene.	2	0.9			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	29.76	755.9	75	23.9	81	sw.	6	2.7			8		sw.	0.03	0.8			hazy.
Constellation, N. 37° 43′, W. 73° 17′*	29.97	761.2	75	23.9	90	ssw.			6		5		ssw.			h'vy	ssw.	fair.
Enterprise, N. 40° 05′ W. 71° 57′*	29.79	756.7	70	21.1	100	ssw.			4		10		calm			sm'h		cloudy.
Essex, S. 47° 10′, W. 81° 02′	29.98	761.5	39	3.9	73	s.			3–6		5		s.			mod.	se.	clear.
Franklin, Norfolk, Va	29.93	760.2	79	26.1	86	sw.	17	7.6			5		sw.	0.51	13.0			fair.
Galena, N. 33° 30′ E. 25° 40′	29.72	754.9	78	25.6	91	wnw.			5		2		wnw.			mod.	wnw.	clear.
Independence, Mare Island, Cal	30.02	762.5	57	13.9	87	sw.			4		10		sw.	0	0			cloudy.
Iroquois, San Francisco, Cal	30.05	763.3	54	12.2	93	sw.			3		10			0	0			cloudy.
Kearsage, Norfolk, Va	29.90	759.4	78	25.6	95	sw.			2		8		sw.					fair.
Lackawanna, Callao, Peru*	30.06	763.5	60	15.6	88	se.			2		10		se.					cloudy.
Lancaster, Alexandria, Eyypt*	29.73	755.1	82	27.8	96	wnw.			3		8		wnw.	0	0	long	nw.	fair.
Marion, S. 34° 54′, W. 56° 13′	29.79	756.7	58	14.4	100	n.			2		10		n.			sm'h		foggy.
Michigan, Detroit, Michigan	29.83	757.7	62	16.7	77	w.			1		0							clear.
Minnesota, Newport, R. I	29.79	756.7	68	20.0	95	s.	15	6.7			10		s.					misty.
Monocacy, Chefoo, China	29.75	755.6	79	26.1	82	w.			1		2		calm			sm'h		fair.
New Hampshire, Newport, R. I	29.81	757.2	70	21.1	95	ssw.			4		0					sm'h		foggy.
Nipsic, Alexandria, Egypt*	29.69	754.1	80	26.7	78	wsw.			3		0					long	nw.	clear.
Onward, Callao, Peru†	30.17	766.3	58	14.4	94	se.			3		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.88	758.9	74	23.3	90	w.			1		2		calm					fair.
Passaic, Washington, D. C	29.92	760.0	75	23.9	95	nw.			2		5		nw.					fair.
Pensacola, Panama, Panama*	29.84	757.9	78	25.6	95	nw.	6	2.7			8		nw.	0	0	sm'h		cloudy.
Portsmouth, Lisbon, Portugal*	29.98	761.5	76	24.4	60	nne.			3		0							clear.
Powhatan, Pensacola, Florida	30.07	763 8	78	25.6	86	nw.			1		10							cloudy
Quinnebaug, Alexandria, Egypt	29.75	755.6	78	25.6	95	wnw.			4		2		calm			long	wsw.	hazy.
Ranger, Mare Island, Cal	30.00	762.0	57	13.9	87	ssw.			3		10		calm	0	0			overcast.
Richmond, Yokohama, Japan*	29.90	759.4	72	22.2	85	se.			3		0			0.01	0.3			clear.
Saratoga, Lisbon, Portugal	29.99	761.7	75	23.9	57	nne.			1		0			0	0	sm'h		fair.
St. Louis, League Island, Pa	30.00	762.0	75	23.9	81	wsw.			3		5		w.	0.3	8.			fair.
Swatara, Yokohama, Japan*	29.84	757.9	72	22.2	80	se.			2		2		ne.			sm'h		fair.
Tennessee, N. 40° 11′, W. 71° 50′	29.88	758.9	72	22.2	90	s.	20	8.9			10		s.			mod.	s.	clearing
Vandalia, Portsmouth, N. H*	29.70	754.4	65	18.3	100	se.			3		10		calm					overcast.
Wabash, Boston, Mass	29.76	755.9	72	22.2	95	s.	6	2.7			10		sw.	0.08	2.0			raining.
Wachusetts, Highfield Harbor, Alaska†	30.32	770.1	50	10.0	93	w.			1		10					sm'h		overcast.
Wyoming, Port Royal, S. C*	30.00	762.0	76	24.4	82	sw.	12	5.4			5		sw.	0	0			fair.
Yantic, Provincetown, Mass	29.79	756.7	69	20.6	100	ssw.			3									foggy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
ALLAN LINE.																		
S. S. Circassian, N. 54° 41′, W. 38° 25′.*	29.68	753.9	50	10.0	93	nne.			4		10		ene.	0	0	2	ene.	overcast.
S. S. Grecian, N. 56° 46′, W. 29° 45′*.	29.49	749.0	54	12.2		nne.			6		8		nne.	3 h'r	3 h'r	high	ne.	cloudy.
S. S. Nova Scotian, N. 39° 53′, W. 68° 36′	29.93	760.2	73	22.8		s.			5		10		ssw.			mod.	s.	cloudy.
S. S. Scandinavian, N. 42° 26′, W. 68° 54′*	29.72	754.9	62	16.7		sse.			5		10			0	0	light	sse.	foggy.
S. S. Waldensian, Moville, Ireland*	29.48	748.8	68	20.0		sw.			3		5		sw.	sh'rs	sh'rs	long	sw.	rainy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, Liverpool, Eng *†	29.70	754.4				sse.			5		10		sw.	10 h'r	10 h'r			raining.
S. S. Lord Gough, N. 46° 06′ W. 52° 35′	30.00	762.0	50	10.0		sw.			4		0			0	0	mod.	wsw.	foggy.
ANCHOR LINE.																		
S. S. Assyria, N. 40° 28′, W. 37° 33′*†	30.18	766.6	73	22.8		wsw.			6		8		w.	0	0	mod.	wsw.	cloudy.
S. S. Devonia, N. 47° 17′, W. 39° 35′†.	29.73	755.1	58	14.4		nw.			4		10		wnw.			long	w.	cloudy.
S. S. Galatia, N. 31° 08′, E. 27° 54′†	30.04	763.0	77.3	25.2		wnw.			4		2			0	0			
ATLAS LINE.																		
S. S. Alvo, Cartagena, U. S. C	29.95	760.7				ne.			4		7		ne.	0	0			cloudy.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Charlottetown, Prince Edward I'd†	29.89	759.2	66	18.9		w.			1		0			0	0			clear.
BRITISH METEOROLOGICAL OFFICE.																		
Aukland, N. 5° 11′, W. 20° 17′	30.01	762.2	78	25.6	82	s.			5		7							overcast.
S. S. Basil, N. 31° 48′, W. 16° 37′	30.13	765.3	71	21.7	71	ne.			4		9							d. clouds.
S. Baroda, S. 33° 56′, E. 27° 09′	29.99	761.7	61.6	16.4	88	wnw.			2		0							blue sky.
S. S. Cipero, N. 32° 26′ W. 44° 47′	30.33	770.4	77.7	25.4	86	n.			1		4							d. clouds.
S. S. City of Agra, N. 6° 18′, W. 21° 15′	30.05	763.3	78	25.6	90	ssw.			5		10							overcast.
S. S. Glencairn, N. 37° 00′, W. 40° 26′	30.23	767.8	79	26.1	86	w.			5		4							d. clouds.
S. S. Gordon Castle, N. 36° 01′, W. 5° 25′	30.03	762.7	70.5	21.4	93	e.			4		1							misty.
S. S. Markland, S. 36° 23′, W. 122° 59′	30.27	768.8	56.8	13.8	87	wnw.			6		5					5	w.	d. clouds.
Bkt. May Hulse, S. 4° 18′, W. 23° 57′	30.09	764.3	77.9	25.6	86	ese.			4		1							blue sky
S. S. Oamarn, S. 33° 53′, E. 26° 50′	30.32	770.1	63.0	17.2	78	wsw.			2									misty.
S. S. Pole Star, N. 23° 54′ W. 36° 02′.	30.29	769.4	77.9	25.6	90	nne.			4		3							blue sky.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico Mazatlan, Mexico †*	29.95	760.7	82	27.8	77	calm			0		5							fair.
CROMWELL LINE.																		
S. S. Hudson, N. 24° 30′ W. 83° 15′ †	30.17	766.3	80	26.7		w.			2		3		nw.	0	0			fair.
CUNARD LINE.																		
S. S. Bothnia, N. 50° 53′, W. 16° 00′	29.36	745.7	62	16.7	88	sw.			4		8?		sw.	12 h'r	12 h'r		sw.	clear.?
S. S. Scythia, Liverpool, Eng	29.59	751.6	63	17.2	94	s.			4		9		s.	16 h'r	16 h'r			raining.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. Ville de Marseilles, Marseilles, France*†	29.80	756.9	79	26.1		calm			0		0			0	0			clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Herder, New York, N. Y. *†	29.73	755.1	73	22.8		s.			1		1		sw.	2 h'r	2 h'r			clear.
S. S. Silesia, N. 41° 50′, W. 53° 07′†	30.19	766.8				wsw.			3		10		wsw.	0	0	4	w.	foggy.
INMAN LINE.																		
S. S. City of Berlin, N. 42° —′ W. 50° —′	30.14	765.5	65	18.3		w.			1		fg			3 h'r	3 h'r	sm'h		overcast.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 11° 30′, W. 25° 30′*†	30.19	766.8	78	25.6		ne.			4		7		e.	0	0	sm'h		cloudy.
MALLORY LINE.																		
S. S. Colorado, N. 27° 06′, W. 89° 45′†.	30.10	764.5	80	26.7		se.			2		4		se.	0	0	small	s.	fair.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 34° 49′, W. 42° 47′*†	30.33	770.4	80	26.7	86	nw.			3		1		wnw.	½ h'r	½ h'r	sm'h		clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 46° 17′, W. 34° 22′†	29.60	751.8	61	16.1	94	w.			6		mist		w.	8 h'r	8 h'r	mod.	w.	misty.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 9° 43′, W 34° 43′	29.65	753.1				se.			4				se.	5 h'r	5 h'r	r'gh	se.	cloudy.
MORGAN LINE.																		
S. S. New York, N. 25° 05′, W. 89° 18′*†	30.20	767.1	80	26.7		se.			3				se.	0	0		sse.	overcast.
NATIONAL LINE.																		
S. S. Denmark, N. 49° 20′, W. 14° 20′	29.65	753.1	58	14.4		ssw.			6		2		sw.	1 h'r	1 h'r	r'gh	w.	hazy.
S. S. England, N. 46° 56′, W. 47° 38′	30.17	766.3				wsw.			3		fg			0	0	mod.	w.	foggy.
S. S. Erin, N. 51° 50′ W. 7° 50′	29.57	751.1	56	13.3		s.			6		10		sw.	7 h'r	7 h'r	r'gh	wsw.	raining.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Saratoga, Havana, Cuba, W. I. †	30.34	770.6	84	28.9	75	calm			0		0			2 h'r	2 h'r			clear.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. State of Nebraska, N. 48° 12′, W. 37° 20′†	29.70	754.4	57	13.9		nnw.			6								con.	showery.
NORTH GERMAN LLOYD.																		
S. S. America, N. 51° 24′, E. 2° 00′*	29.95	760.7	62.6	17.0		sw.			3–4		8		sw.	0	0	sm'h	e.	hazy.
S. S. Hohenzollern, N. 43° 00′, W. 38° 50′*	29.90	759.4	60.8	16.0		nw.			5		7		nw.	0	0	mod.	nw.	cloudy
S. S. Mosel, N. 42° 27′, W. 57° 04′	30.11	764.8	58.1	14.5		sw.			4		4		wsw.	0	0	mod.	wsw.	foggy.
S. S. Ohio, Bremerhaven, Germany	29.88	758.9				wsw.			3		2		w.	2 h'r	2 h'r			fair.
S. S. Rhein, Weser River, Germany	29.85	758.2				nw.			3		5		nw.	0	0	mod.	nw.	fair.
S. S. Saller, N. 40° 03′ W. 61° 17′	30.17	766.3	63.5	17.5		sw.			4		8		sw.	0	0	cross	sw.	cloudy.
S. S. Strassburg, N. 46° 24′, W. 32° 18′	29.50	749.3	63.0	17.2	94	ne.			1		10		nw.	8 h'r	8 h'r	long	wnw.	covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, Yokohama, Japan†*	29.91	759.7	72	22.2	95	sse.			3		10		s.	0	0			squally
S. S. Belgic, San Francisco, California†	30.07	763.8	58	14.4	81	sw.			4		10		sw.					foggy.
S. S. Coptic, N. 23° 17′ E. 117° 20′	29.62	752.3	79.5	26.4	100	ese.			6		9		se.	4 h'r	4 h'r	6	se.	raining.
S. S. Oceanic, Hong Kong, China*	29.73	755.1	82	27.8	87	e.			5		10		se.					squally.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	29.82	757.4				wsw.			3		6?		sw.	0	0			clear ?
S. S. City of Columbus, N. 38° 13′, W. 74° 25′†	29.94	760.5				sw.			6		8		sw.	1 h'r	1 h'r	r'gh	sw.	cloudy.
S. S. Seminole, Savannah, Ga†	30.12	765.0	84	28.9	79	sw.			1		1		w.	2 h'r	2 h'r			clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N 42° 03′, W. 124° 36′†	30.13	765.3	51.5	10.8	86	n.			5		0			0	0	mod.	n.	clear.
S. S. Oregon, Columbia River, Oregon†	30.15	765.8	56	13.3	68	nne.			1		0			0	0			clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal. †	29.94	760.5	54	12.2	93	w.			1		10		w.					cloudy.
S. S. Dakota, N. 48° 12′, W. 124° 30′*†	30.10	764.5	58	14.4	87	nw.			2		2		nw.			mod.	nw.	clear.
S. S. State of California, San Francisco, Cal	30.00	762.0	52	11.1	93	w.			2		10		w.					overcast.
S. S. Victoria, San Francisco, Cal	29.92	760.0	55	12.8	93	calm			0		5			0	0	sm'h		hazy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	30.25	768.3	50	10.0	86	calm			0		0			0	0			clear.
S. S. City of New York, N. 3° 29′, W. 163° 48′†	29.93	760.2	80	26.7	78	ese.			2		0			0	0	mod.	e.	clear
S. S. City of Pekin, N. 47° 18′ E. 176° 40′†	29.86	758.4	46	7.8	100	wsw.			3		10		wsw.	0	0	light	sw.	misty.
S. S. City of Rio de Janeiro, N. 18° 34′, W. 103° 53′*†	30.23	767.8	83	28.3	83	n.			2		10		n.	0	0	light	s.	fine.
S. S. City of Sydney, S. 33° 59′, E. 153° 07′†	29.93	760.2	60	15.6	50	w.			6		5		w.	0	0	h'vy	sw.	fair.
S. S. City of Tokio, N. 43° 18′, E. 171° 36′†	30.10	764.5	51	10.6	93	e.			5		10		e.	4 h'r	4 h'r	small	w.	raining.
S. S. Colon, Aspinwall, Panama†	29.95	760.7	81	27.2		wnw			2		0		ne.	2 h'r	2 h'r	mod.		fair.
S. S. Colima, N. 7° 20′, W. 80° 03′†	29.93	760.2	78	25.6	91	wnw.			4		10		calm	0.10	2.5	small	sw.	raining.
S. S. Grenada, N. 27° 10′, W. 114° 39′†	29.95	761.0	62	16.7	100	w.			1		8		wnw.	0	0	light	wnw.	cloudy.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, Dominica, W. I	29.93	760.2	82	27.8		ene.			3		2			light	light	sm'h		fair.
S. S. Bermuda, N. 26° 09′ W. 68° 36′†	30.32	770.1	82	27.8		se.			2		2		se.	light	light	gentle	se.	
RED STAR LINE.																		
S. S. Belgenland, St. Albans Head, Eng.†	29.97	761.2	65	18.3	73	wsw.			6		8		wsw.	2 h'r	2 h'r	mod.	wsw.	cloudy.
S. S. Nederland, N. 41° 39′, W. 46° 44′†	30.06	763.5	67.5	19.7	?	wnw.			3		2		w.	4 h'r	4 h'r	sm'h	w.	fair.
S. S. Rhynland, N. 40° 41′, W. 61° 47′	30.05	763.3	69	20.6	85	ssw.			5		9		ssw.	0.1	3.	mod.	sw.	cloudy.
S. S. Vaderland, Antwerp, Belgium	29.74	755.4	68	20.0	65	sse.			3		10		s.					overcast.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. P. Caland, N. 48° 30′ W. 19° —′	29.47	748.5	58.3	14.6	89	sw.			5		8 n		sw.			r'gh	ssw.	cloudy.
S. S. Schiedam, N. 52° 04′, E. 3° 00′*	30.10	764.5	66.0	18.9	73	sw.			3		4		sw.	0	0			fair.
S. S. W. A. Scholten, N. 41° 23′, W. 55° 32′	30.10	764.5	72.8	22.7	87	wsw.			3		0			3 h'r	3 h'r	sm'h	wsw.	
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.66	753.4	65	18.3		sw.			2		6		sw.	3 h'r	3 h'r			fair.
S. S. State of Georgia, N. 49° 04′, W. 34° 06′†	29.50	749.3	58	14.4		nw.			4		5		nw.	driz.	driz.		wnw.	fair.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.07	763.8	70.7	21.5		sw.			2		2		sw.	1 h'r	1 h'r			clear.
WHITE STAR LINE.																		
S. S. Celtic, N. 49° 47′ W. 23° 50′†	29.45	748.0	59	15.0	88	w.			6		2		w.	24 h'r	24 h'r	h'vy	w.	showery.
S. S. Republic, Liverpool, Eng†	29.82	757.4	58	14.4	94	s.			5		10		s.	12 h'r	12 h'r			raining.
WILSON LINE.																		
S. S. Romano, Portland, Eng	29.82	757.4	60	15.6		s.			4		10		s.	0	0	mod	s.	overcast.
WINSOR LINE.																		
S. S. Catherine Whiting, Barnegat, N. J†	29.90	759.4	74	23.3		ssw.							sw.	light	light	long	s.	rainy.
MISCELLANEOUS.																		
Schr. Ajax, Pass Cavallo, Texas†	30.18	766.6				calm			0		4		se.	0	0	sm'h	s.	fair.
Bk. Alpha, New York, N. Y†	29.76	755.9	76	24.4		wsw.			5		1		sw.	1 h'r	1 h'r			fair.
Schr. Annie Lewis, Aransas Pass, Texas†	30.21	767.3	83	28.3		se.			1		5?		se.	2 h'r	2 h'r	long	se.	cloudy.?
Bk. Anna Thorman, S. 39° 13′, E. 8° 46′	30.08	764.0	55.6	13.1	98	nne.			6		9 h;n		n.	0	0	cross	sw.	foggy.
S. S. Antonio Lopez, Las Palmas, Canary Ids	30.11	764.8	71	21.7	75	nne.			3		10			0	0			cloudy.
Bk. Argonaut, N. 57° 25′, W. 15° 31′*†	29.49	749.0	57.6	14.2		ene.			6		10		ene.	3 h'r	3 h'r	cross	sse.	overcast.
Schr. Asa Eldridge, Key West, Fla†	30.20	767.1				sse.			3		5		sse.	0	0			squally.
S. S. Burswell, N. 38° 56′, W. 60° 20′*†	30.25	768.3	81	27.2		wsw.			4		4		wsw.	1 h'r	1 h'r	mod.	wsw.	light haze.
Bk. Cato, N. 59° 20′, W 8° 15′*†	29.90	759.4				ese.			4		5?		ese.	0	0	mod.	ese.	cloudy.?
Bk. Celestina, S. 31° 06′ W. 42° 02′*†	30.38	771.6				ne.			3		2		n;ne.	0	0	little	ne.	clear.
Schr. C. R. Flint, Cedar Keys. Florida†	30.32	770.1	80	26.7		ne.			1		2		ene.	0	0			fair.
S. Cornelius, N. 38° 38′, W. 58° 00′*†	30.50	774.7	78	25.6		wsw.			4		0			0	0	mod.	wsw.	clear.
Schr. Edith R. Seward, Ponce, Porto Rico, W. I*†	30.19	766.8	84	28.9		e.			1		3		e.	0	0			fair.
S. E. J. Spicer, New York. N. Y†	29.73	755.1	77	25.0		sw.			5		5		wnw.	8 h'r	8 h'r			
Bk. E. L. Pettingill, N. 43° 18′, W. 130° 00′†	30.50	774.7				n.			5		8		nnw.	0	0	mod.	nw.	cloudy.
S Enoch Train, N. 38° 41′, W. 56° 40′*†	30.30	709.6				ssw.			5		0			0	0	light	sw.	clear.
Bk. Essex, S. 36° 54′, W. 0° 05′*†	29.70	754.4	61	16.1		nne.			6		9		nnw.	8 h'r	8 h'r	high	cross	cloudy.
Bk. Freya, N. 40° 43′, W. 68° 02′						ssw.			5		5		sw.	0	0	mod	sw.	fair.
S. Grecian, Hong Kong, China*†	29.50	749.3	84	28.9		nw			2		2			0	0			fair.
Bk Hattie G. McFarland, N. 40° 25′, W. 73° 45′*†	29.80	756.9	70	21.1		sw.			6		3		w.	0	0	sharp	sw.	hazy.
S. Hedwig, N. 37° 59′, E. 17° 41′	29.79	756.6	76.1	24.5	78	nw.			5		2		nw.	0	0	sm'h	nnw.	fine.
Bk. Horace Scudder, N. 32° 25′, W. 58° 31′†	30.45	773.4	60	20.7		e.			1		0			0	0	sm'h	w.	blue sky.
S. Ivy, N. 10° 05′ W. 124° 16′†	30.17	766.3	79	26.1		ne.			2		2		se.	0	0	cross	s.	clear.
S. Ismir, S. 47° 50′ E. 56° 15′†	29.32	744.7				nnw.			6		10			6 h'r	6 h'r	high	nnw.	
Schr. Jennie N. Huddell, Off Gay Head, Martha's V'd†	29.97	761.2	71	21.7	95	ssw.			3		fg		sw.	1 h'r	1 h'r	h'vy	s.	foggy.
Bk. Johanne, N. 57° 10′, W. 22° 20′*†	29.40	746.7	62	16.7		ese.			4		2		se.	3 h'r	3 h'r	r'gh	wsw.	clear.
Schr. John L. Thomas, Vivorilla Cays, Mosquito Coast*†	30.08	764.0				ene.			4		3		e.	0	0			clear.
Bg. John Wesley, N. 28° 31′ W. 70° 56′†	30.09	764.3				sse.			3		6			1 h'r	1 h'r	mod.	sse.	squally.
Bk. Joseph A. Ropes, N. 5° 55′, W. 24° 27′*†	30.08	764.0	81	27.2	82	ssw.			5		6		ssw	0	0	mod.	ssw.	cloudy.
Bkt. Josephine, N. 37° 06′ W. 74° 25′†	29.95	760.7	79	26.1	78	sw.			6		2			2 h'r	2 h'r	r'gh	ssw.	hazy.
Bkt. Kryolith, N. 49° 51′, W. 51° 30′*†	29.96	761.0				calm			0		2					light	e.	clear.
S. S. Lamperts, N. 35° 16′, E. 17° 14′*	29.81	757.2	75.3	24.1	81	nw.			5		3 k					3		d clouds.
Light House Tender, Laurel, N. 28° 45′, W. 83° 09′†	30.13	765.3	84	28.9		wnw.			2		4		wnw.	0	0			fair.
Bk. Liberia, N. 9° 09′, W. 23° 41′.*	29.96	761.0	78	25.6	90	w.			5		7		w.	4 h'r	4 h'r		s.	
S. S. Malabar, N. 46° 05′, W. 141° 40′*†	30.37	771.4																
S. Orealla, N. 36° 02′, W. 57° 32′*	30.09	764.3	77	25.0		w.			2		1		nw.	0	0	sm'h	sw.	clear.
S. Paramita, S. 14° 52′, W. 102° 02′†	30.03	762.7	75	23.9		se.			5		3		se.	½h'r	½h'r	long	sse.	clear.
S. S. Ponca, N. 20° 02′, W. 65° 28′†	30.20	767.1	86	30.0		e.			2		1		e.	0	0	mod	e.	clear.
S. S. Sunbeam, Odessa, Russia	29.72	754.9	80	26.7	55	calm			0		1		n.					blue sky.
S. Sovereign of the Sea, N. 6° 10′, W. 25° 40′*†	29.96	761.0	79	26.1	86	ssw.			5		5		s.	1 h'r	1 h'r	rg'h	sse.	hazy..
Bg. Teneriffe, Cardenas, Cuba. W. I	30.06	763.5				se.			1									
Bk. Truro, N. 45° 00′, W. 32° 25′*†	29.64	752.8				wsw.			5		4		wsw.	11 h'r	11 h'r	mod.	cross	clearing.
U. S. F. C. S. S. FishHawk, Havre de Grace, Md†	30.04	763.0	75	23.9	90	w.			3		6		sw.	1.39	35.3			fair.
Schr. Viola Reppard, Baltimore, Md†	29.96	761.0	78	25.6		nw.			1		8			0	0			
Bk Wm. Wilcox, S. 33° 40′, W. 51° 30′*†	30.20	767.1	68	20.0		n.			3		10		n.	0	0	mod.	n.	threatening.
S. Wm. Woodbury, N. 51° 41′, E. 2° 29′*	29.92	760.0	64	17.8	78	sw.			4		4?		sw.	0	0	sm'h	sw.	cloudy.?

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 14, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	29.98	761.5	77.9	25.5	82	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	Bouvier.
Algiers	.....	.....	29.99	761.7	78.8	26.0	52	n.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Calle	.....	.....	29.97	761.2	82.4	28.0	42	ene.	.....	.....	5	.....	2	.....	.....	0	0	fair	Fonfrède.
Tunis	.....	.....	29.57	761.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.06	763.5	97.5	36.4	18	ssw.	.....	.....	2	.....	0	.....	.....	0	0	clear	Perès.
Tebessa	.....	.....	30.04	763.1	72.3	22.4	66	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	Derché.
Geriville	.....	.....	.....	.....	100.8	38.2	1	n.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Lonchamp.
Laghouat	.....	.....	30.09	764.3	102.2	39.0	41	e.	.....	.....	1	.....	4	.....	.....	0	0	very fair	Abraham.
Biskra	.....	.....	30.06	763.4	95.4	35.2	21	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	30.26	768.6	30.35	770.9	40.0	4.4	83	w.	4	1.8	.....	.....	1	.....	.....	0.05	1.3	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.36	745.8	29.89	759.1	74.5	23.6	33	se.	.....	.....	3	.....	2	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.17	740.8	29.90	759.5	72.3	22.4	60	nnw.	4.9	2.2	.....	.....	4	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	28.97	735.8	29.81	757.1	74.7	23.7	60	n.	.....	.....	2	0	7 s	.....	s.	0.177	4.5	.....	Julius Mikolik.
Gratz	28.71	729.1	29.91	759.7	71.8	22.1	66	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.35	720.2	29.76	755.8	59.7	15.4	100	w.	.....	.....	3	.....	10	.....	.....	0.575	14.6	raining	Prof. A. Gottschling
Kremsmunster, Obs'y	28.60	726.4	29.89	759.1	71.6	22.0	64	ene.	.....	.....	1	2 c	0	.....	.....	0	0	clear	The Staff.
Lemberg	29.03	737.4	29.97	761.3	74.8	23.8	48	se.	.....	.....	2	.....	5	.....	.....	0.083	2.1	.....	Dr. T. Stanecki.
Pola	29.82	757.5	29.93	760.2	76.6	24.8	48	wnw.	.....	.....	2	.....	1	.....	.....	0	0	.....	I. R.Hydrographic Office.
Szathmar	29.27	743.4	29.71	754.6	86.0	30.0	66	n.	.....	.....	2	.....	3	.....	.....	0	0	.....	Joseph Midlinszay, S. J.
Szegedin	29.46	748.3	29.72	755.0	76.6	24.8	58	n.	.....	.....	1	.....	6	.....	.....	0.240	6.1	.....	Karl Stancel.
Trieste	29.87	758.6	29.97	761.2	79.5	26.4	44	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	Royal Academy.
Vienna	29.24	742.7	29.93	760.1	73.0	22.8	48	nw.	.....	.....	2	.....	1	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.29	744.0	29.38	746.2	67.0	19.4	68	s.	17	7.6	.....	.....	4	.....	.....	0.380	9.7	blue sky	W. Boswell
Armagh, Observatory	29.21	741.9	29.43	747.5	61.6	16.4	74	sse.	16	7.2	.....	.....	10	.....	.....	.....	.....	gloomy	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.52	749.8	67.2	19.6	67	sw.	17	7.6	.....	.....	5	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	28.95	735.3	29.48	748.8	60.3	15.7	79	wsw.	6	2.7	.....	.....	8	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.13	739.9	29.53	750.0	65.2	18.4	59	sw.	.....	.....	2	.....	5	.....	.....	0.27	6.9	d. clouds	[ton. McLandsborough & Pres-
Bridgetown, Barbadoes	30.04	763.0	30.07	763.8	83.0	28.3	74	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	29.62	752.3	67.0	19.4	87	sw.	.....	.....	1.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.56	750.8	29.69	754.1	70.3	21.3	65	sw.	.....	.....	1	.....	6	.....	.....	blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.36	745.7	29.58	751.3	60.0	15.6	90	sse.	.....	.....	5	.....	10	.....	.....	.....	.....	foggy	The Staff.
Fort Napier, Natal	27.92	709.2	30.14	765.5	75.0	23.9	19	e.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Pvt. Lane, A.H.C
Free Town, Sierra Leone	29.71	754.6	29.94	760.5	85.0	29.4	68	nw.	.....	.....	2	.....	7	.....	.....	.....	.....	drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	29.87	758.7	29.92	760.0	78.2	25.7	77	w.	.....	.....	5	.....	0	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.23	742.4	29.43	747.5	63.1	17.3	67	wsw.	.....	.....	5	.....	5 k	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.49	749.0	29.66	753.4	71.7	22.1	61	sw.	.....	.....	4	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.38	746.2	29.68	753.9	62.0	16.7	77	wsw.	.....	.....	2	.....	9	.....	.....	blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.63	752.6	29.67	753.6	67.7	19.8	60	sw.	23	10.3	.....	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.32	744.7	29.57	751.1	68.0	20.0	60	sw.	.....	.....	2	.....	6	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.80	756.9	29.87	758.7	81.0	27.2	59	nw.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	I. H. Whysall.
Nassau, Bahamas	30.16	766.1	30.20	767.1	87.0	30.6	69	s.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.07	738.4	29.58	751.3	65.1	18.4	68	ssw.	.....	.....	5	.....	7	.....	.....	.....	.....	d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.40	746.7	29.63	752.0	65.0	18.3	85	s.	.....	.....	4	.....	8	.....	.....	.....	.....	d. clouds	The Staff.
Plymouth	29.55	750.6	29.62	752.3	63.0	17.2	85	s.	.....	.....	2	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.36	745.7	63.3	17.4	80	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.57	751.1	29.63	752.6	83.8	28.8	58	sw.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.30	744.2	29.57	751.1	66.2	19.0	78	sw.	.....	.....	1	.....	8	.....	.....	0.08	2.0	overcast	W. F. Cooper.
Silloth Rectory	29.44	747.8	29.47	748.5	65.2	18.4	73	sw.	.....	.....	4	.....	4	.....	.....	0.775	19.7	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.55	750.6	64.0	17.8	69	sw.	14	6.3	.....	.....	6	.....	.....	.....	.....	d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.46	748.3	29.66	753.4	69.2	20.7	65	sw.	.....	.....	3	.....	5	.....	.....	.....	.....	squally	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.54	750.3	29.55	750.6	61	16.1	82	s.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.20	741.7	29.22	742.2	58.5	14.7	96	se.	18	8.0	.....	.....	10	.....	.....	.....	.....	raining	The Met'g'l Office.
CANADIAN.																			
Bathurst, N. B.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.84	757.9	29.88	758.9	66	18.9	79	sw.	9	4.0	.....	2 c	0	w.	.....	inap.	inap.	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.78	756.4	29.84	757.9	64	17.8	84	s.	9	4.0	.....	0	0	.....	.....	0.58	14.7	clear	G. A. Blair.
Father Point, Quebec*	29.75	755.6	29.77	756.1	56	13.3	93	w.	15	6.7	.....	.....	10 k	.....	w.	0.20	5.1	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.10	739.1	29.91	759.7	56	13.3	80	s.	10	4.5	.....	10 c	0	w.	.....	0	0	.....	James Stewart.
Halifax, N. S*	29.84	759.7	29.97	761.2	67	19.4	87	s.	3	1.3	.....	2 ck	0	w.	.....	inap.	inap.	fair	A. Allison.
Kingston, Ontario*	29.65	753.1	29.98	761.5	61	16.1	81	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.71	754.6	29.90	759.4	65	18.3	75	w.	14	6.3	.....	0	0	.....	.....	0.56	14.2	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.35	745.5	30.03	762.7	59	15.0	81	n.	6	2.7	.....	2 k	0	nw.	.....	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.36	745.7	30.04	763.0	61	16.1	94	n.	6	2.7	.....	3 k	0	w.	.....	0.01	0.3	fair	H. Morgan.
Port Stanley, Ontario	29.40	746.7	30.04	763.0	57	13.9	86	w.	6	2.7	.....	.....	10 n	.....	w.	0.18	4.6	cloudy	M. Payne.
Quebec, Quebec*	29.55	750.6	29.87	758.7	61	16.1	96	w.	.....	.....	3	5 k	5 s	w.	w.	0.40	10.2	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.53	750.0	29.98	761.5	59	15.0	90	nw.	6	2.7	.....	0	fg.	.....	nw.	0.15	3.8	fair	W. H. McIntyre.
Saugeen, Ontario*	29.34	745.2	30.05	763.3	56	13.3	93	nw.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	
St. Andrews, N. B.	29.86	758.4	29.91	759.7	64	17.8	87	calm	0	0	.....	0	0	.....	.....	0.26	6.6	clear	
Sydney, C. B*	29.82	757.4	29.88	758.9	68	20.0	78	sw.	12	5.4	.....	1 c	3 k	.....	w.	0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.66	753.4	30.04	763.0	60	15.6	78	n.	9	4.0	.....	.....	8 ks	.....	w.	inap.	inap.	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.91	759.7	29.98	761.5	56	13.3	96	sw.	2	0.9	.....	.....	fg.	.....	.....	0.01	0.3	foggy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
Mount Forest	28.64	727.4	30.09	764.3	54.0	12.2	93	nw.	.....	.....	2	8 n	8 n	.....	.....	0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.94	760.5	30.19	766.8	62	16.7	94	s	4	1.8	.....	10 k	10 s	.....	.....	0.03	0.8	.....	John Delany.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.21	767.3	30.24	768.1	63.0	17.2	88	ne.	6.5	2.9	.....	3 c	0	.....	.....	0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.15	765.8	30.19	766.8	67.5	19.7	48	wnw.	8	3.6	.....	8	8	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.69	754.2	29.72	754.9	79.9	26.6	89	se.	13.9	6.2			0			0	0	clear	M. Marc Decheyrens, S.J.
DANISH.																			
Copenhagen	29.80	756.9	29.85	758.1	69.3	20.7	66	s.	14.5	6.5			9						Oversergent Fischer.
Fanöe	29.71	754.5	29.72	755.0	61.7	16.5	93	sw.			2		10						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.71	754.6	29.75	755.7	50.4	10.2	75	se.			2		0						A. O. Thorlacius.
Thorshavn	29.49	749.0	29.52	749.9	51.1	10.6	95	ene.	13	6			10					raining	Overloerer Bergh.
Vestervig	29.60	751.9	29.69	754.2	61.5	16.4	93	s.			4		10					raining	Loerrer Oesterbol.
FRENCH.																			
Agen, Normal School	29.19	741.5	29.84	758.0	82.4	28.0	47	calm			0		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.24	742.7	29.79	756.7	66.2	19	87	sw.											M. Nicot, Director.
Arras, Engineer School	29.45	748.0	29.70	754.4	60.1	15.6	85	s.			1		8			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.86	758.4	29.94	760.4	86.0	30	42	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.30	744.2	29.83	757.6	79.0	26.1	41	s.			2		6		w.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.55	750.6	29.81	757.1	72.0	22.2	63	sse.			1		10		sw.	0.012	0.3	covered	M. Frère Eugène Marié.
Besançon, Normal School	28.92	734.5	29.77	756.1	75.2	24	54	nne.			1	2 c	0	nw.		0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.60	751.9	29.85	758.2	77.5	25.3	54	ese.			1		1			0	0	Al. clear	M. Rayet, Director.
Bourges, Normal School	29.31	744.5	29.84	757.9	77.0	25	61	ssw.			1	c	0	ssw.		0	0		M. Malet, Director.
Brest, Naval Observatory	29.49	749.1	29.74	755.3	64.0	17.8	86	sw.			3		10		sw.	0.031	0.8		M. de Kermaree, Dir.
Caen, Normal School	29.74	755.4	29.81	757.2	68.7	20.4	67	s.			2		5		s.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.49	749.1	29.80	757.0	77.0	25.0	60	s.			1		5			0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.24	742.8	29.73	755.2	75.6	24.2	67	wsw.			2					0	0		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.52	724.5	29.79	756.7	83.8	28.8	24	e.			1	5 c;pc	0			0	0	½ covered	M. Allnard, Director.
Cluny, Normal School	29.13	739.9	29.94	760.5	77.9	25.5	54	s.			2		2		nw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.01	736.9	29.85	758.2	77.7	25.4	44	sw.			1		10knc	sw.	sw.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School																			M. Jeangirard, Director.
Gréasque, du Rhone	28.84	732.6	29.91	759.6	85.1	29.5	53	sw.			2		1		sw.	0	0		M. Kinn, Director.
Grenoble, Normal School	29.15	740.3	29.87	758.7	83.8	28.8	60	nw.			1	0	2 s			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.34	719.9	29.85	758.1	76.1	24.5	33	w.			1		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	29.47	748.6	29.74	755.4	66.9	19.4	70	s.			3		5		s.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.15	740.4	29.70	754.4	67.3	19.6	67	n.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.69	754.0	29.76	755.8	65.1	18.4	85	s.			2		10			0.016	0.4	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.86	733.1	29.87	758.8	78.6	25.9	51	s.			1	8 c	0	w.		0	0	¾ covered	M. André, Director.
Mans, Normal School	29.47	748.6	29.77	756.2	70.5	21.4	73	w.			3		5		w.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.68	753.9	29.95	760.7	71.6	22.0	75	wnw.			2		1		wnw.	0	0		M. Stephan, Director.
Montlouis	24.89	632.1	29.73	755.1	73.0	22.8	34	w.	7.4	3.3			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.79	756.6	29.91	759.8	77.0	25	61	se.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.08	738.5	29.82	757.5	78.4	25.8	64	s.			1	ck	0			0	0		M. Hasse, Director
Nantes, Observatory	29.69	754.2	29.85	758.3	70.7	21.5	64	ssw.			1–3	2 c	9k;km		sw.	0.047	1.2		M. Larocque, Director.
Perpignan, Observatory	29.79	756.6	29.89	759.3	75.9	24.4	48	ne.	11.2	5.0			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.38	543.0			54.3	12.4		ssw.			1		1		ssw.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.83	732.3	29.84	757.8	82.8	28.2	39	s.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.17	639.3			61.3	16.3	59	sw.			1	5 c	0			0	0	½ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	29.87	758.6	29.90	759.4	77.0	25.0	72	sw.			1		2		sw.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.65	753.0	29.85	758.3	70.9	21.6	74	s.			1		5		ne.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.84	707.0	29.92	760.0	72.3	22.4	47	ne.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	29.74	755.3	29.78	756.5	69.8	21	71	sw.			1		8	sw.		0	0	very cloudy	M. Brotier.
Saint Maur, Observatory	29.67	753.6	29.84	757.8	70.2	21.2	65	ssw.			1		10		w.	0	0		M. Renou, Director.
Toulouse, Observatory	29.21	741.8	29.93	760.1	85.3	29.6	39	e.			1		1		w.	0	0	clear	M. Baillaud, Director.
Tours	29.67	753.5	29.84	758.0	73.4	23.0	62	sw.			1		8	sw.	sw.	0	0	very cloudy	M. de Tastes.
Versailles, Observatory	29.34	745.2	29.83	757.7	72.0	22.2	63	sw.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.55	750.6	29.84	758.0	70.3	21.3	65	wsw.			1		8		wsw.	0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	29.08	738.6	29.93	760.2	75.6	24.2	36	w.			1	0	4 k;s		w.	0	0		Prof. Dr. Hoh.
Berlin	29.84	757.9	30.01	762.3	76.6	24.8	40	se.			2		8			0	0		Prof. Dr. Arndt.
Breslau	29.47	748.6	30.00	762.1	74.5	23.6	39	se.			2		6			0	0		Royal University Obs'y.
Carlsruhe	29.44	747.7	29.86	758.4	74.1	23.4	59	sw.			1		5	sw.		0	0		Albert Senz.
Cassel	29.10	739.0	29.81	757.1	80.2	26.8	52	se.			2		6	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.49	749.0	29.84	758.0	69.8	21.0	54	ssw.			1		7			0	0		Physical Society.
Friedrichshafen	28.50	723.9	29.89	759.2	68.4	20.2	73	ssw.			2		5	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.71	754.7	29.81	757.1	72.1	22.3	56	ssw.			4		10			0.028	0.7		E. Prelier.
Kiel	29.76	755.9	29.78	756.3	70.7	21.5	65	sse.			2		10			0.008	0.2		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.50	749.2	29.90	759.5	75.9	24.4	43	s.			3		6			0	0		H. Leppig, Asst.
Magdeburg	29.68	753.8	29.85	758.3	78.8	20	41	s.			3	c	7 ks			0	0		Dr. Assmann.
Memel	30.00	762.0	30.05	763.2	68.7	20.4	67	w.			3	1 c	0						Issermann.
Munich	28.12	714.2	29.98	761.4	73.9	23.3	38	e.			1		1			0	0		Dr. C. Lang.
Neufahrwasser	29.98	761.6	30.00	762.0	72.0	22.2	59	e.			2		5	sw.		0	0		A. Lothes.
Neustadt, Palatinate	29.32	744.8	29.84	758.0	72.3	22.4	58	calm			0		10			0	0		Dicknether.
Stuttgart	28.92	734.6	29.77	756.1	77.0	25.0	51	sw.			1		hz			0	0	hazy	Prof. Dr. Schoder.
Wustrow	29.84	757.8	29.86	758.4	75.4	24.1	55	se.			5		10 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.34	745.2			81.1	27.3		sw.			2.0		4			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.40	746.9	29.46	748.2	77.7	25.4	95	sse.	35.0	15.6			10			0.34	8.5	drizzling	
Deesa	29.03	737.4	29.50	749.2	86.8	30.3	66	sw.					6	sw.		0.19	4.8	d. clouds	
Bombay	29.60	751.8	29.64	752.8	80.7	27.1	88	wsw.	21.0	9.4			10		w.	0.09	2.3	overcast	
Poona, Yarrowda	27.80	705.2	29.67	753.5	72.3	22.4	93	wsw.	10.0	4.5			10		w.	0.81	20.6	raining	
Trichinopoly	29.48	748.7	29.75	755.7	87.4	30.8	48	wnw.	4.0	1.8			10			0	0	overcast	
Bellary	28.21	716.5	29.67	753.5	80.0	26.7	63	w.	14.8	6.6			10	w.		0	0	gloomy	
Belgaum	27.17	690.1	29.72	755.0	69.3	20.7	95	wsw.	12.0	5.4			10		sw.	4.10	104.1	showery	
Lahore	28.67	728.1	29.38	746.3	91.1	32.8	67	e.	2.2	1.0			8			1.28	32.5	raining	
Roorkee	28.57	725.6	29.44	747.9	85.2	29.6	79	calm	1.8	0.8			7			0.20	5.1		
Agra	28.90	734.2	29.46	748.2	80.8	30.4	74	w.	3.7	1.6			4		w.	0	0	d. clouds	
Nagpur	28.39	721.1	29.43	747.4	79.5	24.7	91	nw.	10.3	4.6			10		w.	1.73	43.9	overcast	
Jubbulpore	28.15	715.0	29.49	749.0	80.7	27.1	84	ne.	5.9	2.6			10			1.59	40.4	overcast	
Lucknow	29.04	737.5	29.40	749.7	94.0	34.4	59	calm	1.5	0.7			2		ese.	0.03	0.8		
Allahabad	29.08	738.6	29.38	746.3	87.5	30.8	80	calm	3.0	1.3			9	e.		0	0	overcast	
Patna	29.26	743.2	29.44	747.8	85.8	29.9	76	e.	7.0	3.1			5	e.	e.	0.15	3.8	d. clouds	
Hazaribagh	27.42	696.6	29.41	746.9	77.3	25.2	90	ese.	14.1	6.3			10		e.	0.34	8.6	thund'rst'm	
Cuttack	29.33	745.0	29.41	747.0	82.9	28.3	78	s.	0.2	0.1			7			0.51	13.0	d. clouds	
Calcutta, Alipore	29.39	746.6	29.42	747.1	81.0	27.2	90	sse.	6.0	2.7			10		se.	0.60	15.2	overcast	
Dhubri	29.34	745.4	29.46	748.2	80.3	30.2	80	calm	5.0	2.2			0			0.05	1.3	blue sky	
Chittagong	29.49	748.9	29.58	751.2	78.2	25.7	90	ese.	9.2	4.1			10			0	0	overcast	
Sibsagar	29.11	739.4	29.43	747.6	92.2	33.4	69	ne.	1.9	0.8			6	sw.	sw.	0.02	0.5	d. clouds	
Jeypore	28.05	712.7	29.48	748.5	80.2	26.8	87	w.	1.2	0.5			9		w.	0.18	4.6	d. clouds	
Zanzibar, Africa	30.09	764.3			81.2	27.3	59	s.	9.1	4.1			6		sse.	0.01	0.3	d. clouds	
ITALIAN.																			
Udine	29.55	750.5	29.94	760.4	76.5	24.7	49	s.	1.8	0.8			1			0	0		Prof. Giovanni Clodig.
Milan	29.44	747.7	29.93	760.3	81.3	27.4	38	se.	4.9	2.2			3	nw.		0	0		Prof. Schiaparelli.
Padua	29.82	757.4	29.93	760.1	79.2	26.2	41	ene.	3.1	1.4			5	nw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.04	737.6	29.91	759.6	78.8	26.0	37	e.	1.8	0.8			2			0	0		Prof. P. F. Denza.
Genoa	29.75	756.0	29.95	760.7	75.9	24.4	62	sw.	4.3	1.9			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.06	712.7	29.89	759.2	75.7	24.3	36	w.			2		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Pesaro	29.89	759.2	29.94	760.4	74.8	23.8	55	ene.	11.9	5.3			0			0	0		Prof. Luigi Guidi.
Florence	29.67	753.5	29.91	759.7	81.9	27.7	32	nw.			2		0			0	0		Prof. Costantino Pitter
Leghorn	29.80	757.0	29.89	759.1	73.4	23.0	67	w.	1.3	0.6			1			0	0		Prof. P. Monte.
Rome	29.71	754.7	29.88	759.0	86.4	30.2	17	n.	15.0	6.7			0			0	0		Prof. P. S. Ferrari.
Lecce	29.58	751.4	29.82	757.5	75.9	24.4	34	nnw.	21.7	9.7			2			0	0		Prof. O. de Giorgi.
Cosenza	28.98	736.2	29.84	757.8	80.6	27.0	71	sse.	3.8	1.7			2	se.		0	0		Prof. D. Conti.
Cagliari	29.72	754.9	29.91	759.6	77.2	25.1	58	sse.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.69	754.0	29.93	760.1	83.5	28.6	25	nne.	11.9	5.3			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.82	757.4	29.86	758.5	81.0	27.2	56	sw.	5.6	2.5			2	wnw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.36	745.7	29.86	758.5	79.7	26.5	43	w.	7.4	3.3			3	ne.		0	0		Prof. T. Brioschi.
Stelvio	22.28	565.9			52.0	11.1	47	se.			1		0			0	0	clear	Prof. P. F. Denza.
Valdobbia	22.33	567.2			55.4	13.0	67	ne.			2		7			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.93	760.2	29.95	760.7	61.5	16.4	97	calm	0	0			7			0	0	cloudy	
Hiroshima, I. M. Obs'y					76.0	24.4	85	wsw.	1.8	0.8		0	0			0	0	clear	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.75	755.6	29.92	759.9	76.0	24.4	82	ssw.	4.4	2.0		0	4 s;ck			0	0	fair	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.72	755.0	29.92	759.9	75.7	24.3	88	sw.	0.9	0.4		0	0			0	0	clear	S. Takehayashi.
Nemuro	30.01	762.2	30.07	763.8	58.5	14.7	96	calm	0	0		0	0			0	0	clear	
Niigata	29.89	759.2	29.93	760.2	70.9	21.6	91	n.	0.3	0.1			10 ck			0	0	overcast	M. Morita.
Nobiru	29.95	760.6	29.96	761.0	67.0	19.4	90	s.	11.1	4.9			10 s			0.105	2.7	covered	H. Midzushima.
Osaka																			
Supporo					63.2	17.3	91	n.	1.2	0.5			10					rainy	
Tokei Obs'y, Yeddo	29.89	759.2	29.97	761.2	71.5	21.9	85	s.	6.3	2.8			10 s		s.	0	0	covered	The Staff.
Wakayama	29.89	759.2	29.94	760.5	74.4	23.6	83	ssw.	6.6	3.0		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	30.07	763.8	30.27	768.8	68.4	20.2	68	e.	18.0	8.0			7 k;ks		ese.	0.01	0.3	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.76	603.6	29.98	761.6	59.0	15.0	89	nne.				8 c	1 k		e.	0	0	cloudy	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.05	763.3	58.3	14.6	88	wnw.			1	5 c	0	sw.		0.039	1.0	½ cloudy	Prof. M. Leal.
Mazatlan	29.78	756.3	30.03	762.8	77.0	25.0	82	nne.	1.6	0.8		0	7 n		wnw.	0	0	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.20	589.2	30.26	768.7	52.3	11.3	86	calm	0	0		2 ck	1 ks			0.524	13.3	fine	The Staff.
Morelia	24.27	616.4	30.32	770.0	59.0	15.0	50	se.			2	1	3	se.	se.	1.024	26.0	clear	M. Tena, M. D
Orizaba	26.16	664.4	30.15	765.8	57.7	14.3	87	calm	0	0		0	0			0	0	clear	Prof. M. M. Cházaro.
Pabellon, Aguascallentes	24.02	610.2	30.01	762.3	59.5	15.3	87	calm			0	1 cs	0			0.020?	0.6?	clear	M. V. de Leon, M. E
Puebla, Catholic Institute	23.48	596.4	30.26	768.6	50.9	10.5	89	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.30	617.3	30.27?	767.8?	65.3	18.5	67	e.					10		e.	0	0	covered	G. Barroeta, M. D
Zacatecas	22.66	575.5	30.28	769.2	58.5	14.7	89	e.	4.0	1.8		0	0			0	0	clear	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	29.76	755.8	29.76	755.8	68.2	20.1		w.			3					0	0		
Groningen	29.69	754.0	29.74	755.4	68.2	20.1		s.			2					0.024	0.6		
Helder	29.70	754.4	29.70	754.4	64.0	17.8		ssw.			4					0.063	1.6		
Hellevoetsluis	29.74	755.5	29.74	755.5	67.1	19.5	77	wsw.			3					0.028	0.7		
Utrecht	29.71	754.5	29.75	755.7	70.0	21.1	62	ssw.			3		5			0.012	0.3	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.46	748.2	29.52	749.8	62.6	17.0	66	sse.	16	7			8			0.016	0.4	raining	
Brono	29.57	751.0	29.61	752.0	53.8	12.1	75	sw.	18	8			9			0.295	7.5		
Christiania	29.56	750.9	29.71	754.5	61.2	16.2	76	ssw.	11	5			10			0.012	0.3	raining	
Gjæsvær	29.07	738.3	29.09	738.9	56.3	13.5		calm			0		10						
Lodingen	29.24	742.8	29.29	744.0	50.5	10.3	85	sw.			6		10			0.866	22.0	raining	
PORTUGUESE.																			
Angra, Azores					70.2	21.2	73	n.	14.3	6.4			3			0.354	9.0		Dr. J. A. Sampaio.
Campo Major	28.95	735.2	29.89	759.3	83.7	28.7	34	wsw.	4.3	1.9			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.00	762.1	30.09	764.3	72.0	22.2	72	sw.	3.8	1.7			9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.65	753.1	30.00	762.0	69.1	20.6	75	sw.	15.4	6.9			1			0	0		The Staff.
Ponta Delgada, Azores	29.90	759.5	29.97	761.3	75.9	24.4	60	nw.	9.8	4.4			4			0.075	1.9		
Saint Paul de Loando	29.87	758.8	30.08	764.0	67.8	19.9	86	nne.	0.7	0.3			10			0	0		
Serra da Estrella	25.28	642.1	29.84	758.0	64.4	18.0	70	nw.	9.4	4.2			2			0	0		
RUSSIAN.																			
Akmollinski	28.90	734.0	29.94	760.4	70.0	21.1	30	ne.	9	4		1 c	0			0.008	0.2		Major K. Lasarew.
Archangel	29.73	755.2	29.75	755.7	70.3	21.3	65	wsw.	4	2		0	8 ks			0.047	1.2		Capt. Sselilwerstow.
Astrakhan	29.97	761.2	29.89	759.1	84.4	29.1	27	se.	22	10		0	7 s			0	0	light clouds	Capt. Wisganow.
Barnaul	29.48	748.7	29.97	761.2	59.2	15.1	47	nnw.	4	2			8			0	0		Meteorological Obs'y.
Dorpat	29.70	754.3	29.93	760.2	72.0	22.2	53	wsw.	9	4		0	6 k			0	0		Observatory.
Ekaterinburg	28.98	736.1	29.90	759.4	75.6	24.2	46	wnw.	11	5			10			0	0		Meteorological Obs'y.
Irkutsk	28.21	716.5	29.79	756.7	64.6	18.1	88	w.	4	2		6 cs	0			0.020	0.5		
Kasan	29.78	756.3	30.03	762.7	80.6	27.0	56	wsw.	2	1		0	4 k			0	0		Observatory.
Kertch	29.53	750.0	29.55	750.5	86.2	30.1	68	e.	45	20		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.18	741.2	29.79	756.7	70.2	21.2	82	nne	9	4			9 ks;n			0.024	0.6		Observatory.
Lugan	29.58	751.2	29.77	756.2	79.0	26.1	49	ene.	22	10			9			0	0		Meteorological Obs'y
Moscow	29.44	747.8	29.88	759.0	78.6	25.9	45	s.	4	2			3 ks						Meteorological Obs'y.
Nikolaiev	29.57	751.1	29.64	752.9	95.9	35.5	42	sse.	9	4		0	0			0.071	1.8		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.52	749.9	29.67	753.5	74.8	23.8	94	calm	0	0			10 n			0.512	13.0	raining	Physical Observatory
St. Petersburg	29.87	758.7	29.89	759.1	69.1	20.6	67	s.	11	5			9 kn			0.008	0.2		Central Physical Obs'y
Semipalatinsk	29.30	744.2	29.93	760.3	68.7	20.4	28	ne.	18	8			2			0	0		Major Lasarew.
Tashkend, Laboratory	28.14	714.8	29.61	752.2	81.0	27.2	51	calm	0	0			8			0	0		Teich, A. M.
Tiflis	28.39	721.2	29.71	754.6	92.1	33.4	30	se.	13	6		0	8 ks			0	0		Physical Observatory
Vladivostock	29.73	755.2	29.80	756.9	62.2	16.8	97	se.	7	3			10 n						
Warsaw	29.53	750.1	29.94	760.4	73.4	23.0	38	e.	7	3		0	1 k						Astronomical Obs'y
Wilna	29.57	751.0	29.97	761.2	72.7	22.6	64	nw.	2	1			4			0	0		Berg, Assistant.
Yeniseisk	29.69	754.2	29.98	761.4	51.1	10.6	83	w.	4	2			6			blank	blank		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.77	756.1	29.87	758.7	80.1	26.7	58	sw.	4.9	2.2			0					clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.75	755.6	29.81	757.1	88.9	31.6	38	nw.	1.6	0.7		0	0			0	0	clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.00	685.7	29.81	757.1	79.5	26.4	36	sw.	5.4	2.4			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.72	704.0	29.79	756.7	89.6	32.0	30	sw.	16.1	7.2		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director
Santiago, Met. Obs'y	28.91	734.4	29.78	756.5	68.4	20.2	84	ssw.	18.6	8.3			10			0.142	3.6	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I																			Benito Vines, S. J.
Manilla, Philippine Islands	29.72	754.9	29.76	756.4	76.1	24.5	95	ese.	5.5	2.5			10 n		ssw.	3.260	82.8	misty	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.90	759.4	30.00	761.9	73.9	23.3	74	sw.	5.4	2.4		0	4		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.07	763.7	30.16	766.0	80.2	26.8	92	se.	10.5	4.7		4 k	5 kn	e.	e.	0	0	overcast	Manuel Maese.
Tuguegarao, Philippine Id's	29.61	752.1	29.74	755.4	76.8	24.9	88	sw.	2.0	0.9		3 cs	7 kn		sw.	0.15	3.8	dull	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.51	749.6	29.55	750.6	58.3	14.6	74	sw.			4		8			0	0		
Umea	29.60	751.8	29.65	753.1	65.5	18.6	64	sw			6		2			0	0		
Hernosand	29.63	752.6	29.68	753.9	64.0	17.8	53	s.			4		2			0	0		
Stockholm	29.64	752.8	29.82	757.3	70.7	21.5	43	sw.			4		4			0.102	2.6		
Wisby	29.77	756.1	29.83	757.6	67.6	19.8	65	wsw.			4		5			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Sub-series.																			
Upsala	29.69	754.0	29.77	756.2	68.4	20.2	56	sw.	13.6	6.1			5		sw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.53	724.6	29.91	759.7	69.6	20.9	59	n.			2					0	0		The Observatory
SCOTTISH.																			
Monach Lt			29.32	744.7	59	15.0	94	sw.			3	5	5	sw.		0.1	3.		J. Youngclause.
North Unst								se.			4		10			blank	blank		
TURKISH.																			
Constantinople			29.68	753.8	76.5	24.7	66	ene.	4	2.0			8		n.	0	0		The Observatory.
Valona			29.94	760.5	77.9	25.5		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.73	755.1	86.0	30.0	54	w.			2	0	2 s		w.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.92	760.0	30.00	762.0	72	22.2	66	sw.	4	1.8		3 c	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.45	748.0	30.09	764.3	55	12.8	80	nw.	10	4.5		0	0			inap.	inap.	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.09	637.3	29.83	757.7	56	13.3	83	ne.	4	1.8		0	6 s		calm	0.07	1.8	fair	W. O. Barnes.
Assinnaboine, Ft., Montana	27.06	687.3	29.79	756.7	51	10.6	74	sw.	7	3.1		0	0			0.20	5.1	clear	B. O. Lenoir.
Atlanta, Georgia	28.98	736.1	30.12	765.0	69.0	20.6	70	nw.	5	2.2			10 s			0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.01	762.2	30.02	762.5	70.3	21.3	82	sw.	2	0.9		4 k	5 s	calm	calm	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.93	760.2	30.12	765.0	72.0	22.2	82	calm	0	0		8 k	0	sw.		0	0	cloudy	John Healy.
Baltimore, Maryland	30.01	762.2	30.06	763.5	74	23.3	60	nw.	6	2.7		9 ck	0	w.		0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.99	761.7	30.01	762.2	70.0	21.1	78	sw.	7	3.1			10 s			0	0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.24	717.3	29.78	756.4	58	14.4	72	se.	16	7.2		2 k	7 s	se.	se.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.07	687.6	29.78	756.4	48	8.9	71	calm	0	0		0	0			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	30.16	766.1	30.18	766.6	48.0	8.9		se.	5	2.2			10 s			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.01	711.4	29.73	755.1	58	14.4	72	se.	14	6.3		2 c	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.97	761.2	30.00	762.0	70.0	21.1	79	sw.	5	2.2		4 c	0	sw.		0.02	0.5	fair	J. T. Elker.
Boise City, Idaho	27.16	689.9	29.88	758.9	64	17.8	65	n.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.82	757.4	29.97	761.2	69.0	20.6	76	w.	4	1.8		7 c	hz.	w.		0.36	9.1	fair	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.03	762.7	79.0	26.1	91	se.	3	1.3		4 cs	2 s	se.	se.	0	0	fair	M. McCarty.
Buffalo, New York	29.29	744.0	30.02	762.5	62.3	16.8	86	calm	0	0		2 ck	8 ks; sk	sw.	sw.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.78	705.6	29.72	754.9	56	13.3	74	ne.	2	0.9		3 k	0	calm		0	0	clear	A. H. Bell.
Burlington, Vermont	29.65	753.1	29.93	760.2	66.0	18.9	68	s.	7	3.1		3 ck	0	w.		0.05	1.3	clear	G. O. Schaeffer.
Cairo, Illinois	29.81	757.2	30.20	767.1	69.7	20.9	58	n.	1	0.4		0	0			inap.	inap.	clear	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.24	691.9	29.83	757.7	78	25.6	50	s.			1	2 cs	2 ks	sw.	sw.	0	0	fair	J. T. Fitzgerald.
Cape Henry, Virginia	30.05	763.3	30.07	763.8	71	21.7	90	w.	10	4.5		0	2 s			0.34	8.6	clear	A. K. Alderson.
Cape May, New Jersey	30.00	762.0	30.03	762.7	72.0	22.2	82	calm	0	0		5 k	0	nw.		0	0	fair	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	79	26.1	88	e.	4	1.8		0	8 k		s.	0.34	8.6	cloudy	F. W. Mixer.
Champaign, Illinois	29.33	745.0	30.12	765.0	58.8	14.9	72	n.	3	1.3		0	hz.			inap.	inap.	clear	L. A. Welsh.
Charleston, S. Carolina	30.01	762.2	30.06	763.5	81	27.2	69	sw.	3	1.3		0	9 s		sw.	0.02	0.5	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.21	741.9	30.04	763.0	70.0	21.1	79	ne.	5	2.2			10 s		w.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.35	745.5	30.15	765.8	67.5	19.7	80	nw.	3	1.3		1 cs	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.03	610.4	29.72	754.9	52.1	11.2	52	w.	2	0.9		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.44	747.8	30.13	765.3	59.9	15.5	89	n.	2	0.9		0	fg.			0.55	14.0	clear	J. Mitchell.
Chincoteague, Virginia	30.02	762.5	30.04	763.0	73	22.8	97	nw.	9	4.0		0	0			0.02	0.5	clear	V. P. Temple.
Cincinnati, Ohio	29.46	748.3	30.10	764.5	64	17.8	78	w.	6	2.7		0	8 ks		w.	inap.	inap.	cloudy	J. F. Harrold.
Cleveland, Ohio	29.34	745.2	30.06	763.5	59.6	15.3	83	sw.	7	3.1		3 k	5 k	w.	w.	0.06	1.5	cloudy	J. B. Newlin.
Coleman City, Texas	28.31	719.1	30.07	763.8	69	20.6	97	e.	3	1.3		0	9 s		s.	0.07	1.8	cloudy	L. Dorman.
Columbus, Ohio	29.25	742.9	30.08	764.0	59	15.0	87	w.	3	1.3		0	1 ks		w.	inap.	inap.	clear	D. Cuthbertson.
Concho, Texas	28.16	715.3	30.04	763.0	70	21.1	87	e.	6	2.7		0	8 k		s.	0	0	cloudy	W. W. McConlhe.
Custer, Fort, Montana	26.70	678.2	29.72	754.9	59	15.0	72	w.	4	1.8		3 k	0	calm		0	0	clear	V. Verge.
Davenport, Iowa	29.50	749.3	30.13	765.3	60	15.6	81	ne.	1	0.4		0	sk		ne.	inap.	inap.	clear	R. R. Martin.
Davis, Fort, Texas	25.26	641.6	29.90	759.4	69	20.6	63	sw.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.32	719.3	30.02	762.5	50.3	10.2	73	sw.	1	0.4		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.24	641.1	29.66	753.4	59.5	15.3	62	sw.	5	2.2		4 c	0	w.		0	0	fair	G. W. Scott.
Decatur, Texas					68	20.0	52	s.	8	3.6		0	5 s		nw.	0.02	0.5	fair	D. J. Carr.
Delaware Breakwater, Del.	30.02	762.5	30.04	763.0	71	21.7	94	nw.	7	3.1		2 k	4 ks	sw.	sw.	0	0	fair	A. Schneider.
Denison, Texas	29.36	745.7	30.14	765.5	66.3	19.1	93	e.	4	1.8		0	0			inap.	inap.	clear	J. McGlone.
Denver, Colorado	24.74	628.4	29.75	755.6	67.0	19.4	45	sw.	9	4.0			10 s		sw.	0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.27	743.4	30.15	765.8	54	12.2	86	calm	0	0		0	fg.			0.23	5.8	clear	F. W. Conrad.
Detroit, Michigan	29.39	746.5	30.08	764.0	59.6	15.3	81	nw.	5	2.2			10 s		w.	0.07	1.8	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.50	698.5	30.00	762.0	61.0	16.1	78	s.	11	4.9		0	3 k		sw.	0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.44	747.8	30.13	765.3	57.8	14.3	86	nw.	1	0.4		0	fg.			inap.	inap.	clear	J. Harvey Smith.
Duluth, Minnesota	29.34	745.2	30.06	763.5	61	16.1	65	calm	0	0		0	2 k			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.27	743.4	30.06	763.5	77.0	25.0	82	se.	4	1.8		0	5 s		se.	0	0	fair	C. Dill.
Eagle Rock, Idaho	25.25	641.3	29.80	756.9	52	11.1	32	sw.	12	5.4		0	0			0	0	clear	F. Belford.
Eastport, Maine	29.86	758.4	29.92	760.0	63.0	17.2	75	s.	4	1.8		0	0			0.22	5.6	clear	J. M. Clifford.
Elliott, Fort, Texas	27.37	695.2	30.01	762.2	62	16.7	84	se.	12	5.4			10 s		se.	0	0	cloudy	D. C. Murphy.
El Paso, Texas	26.37	669.8	29.97	761.2	69	20.6	66	w.	12	5.4			10 s		w.	0	0	cloudy	W. J. Cundall.
Erie, Pennsylvania	29.32	744.7	30.04	763.0	62	16.7	87	calm	0	0			10 k		sw.	0.12	3.0	cloudy	J. F. Marshall.
Escanaba, Michigan	29.45	748.0	30.09	764.3	60	15.6	60	calm	0	0		0	0			0	0	clear	Peter Wood.
Fredericksburg, Texas	28.38	720.8	30.08	764.0	71	21.7	84	calm	0	0			10 s			inap.	inap.	cloudy	C. Dill.
Galveston, Texas	30.07	763.8	30.12	765.0	77	25.0	76	ne.	9	4.0			10 n		sw.	0.29	7.4	heavy rain	H. S. Miles.
Grand Haven, Michigan	29.46	748.3	30.11	764.8	62.5	16.9	64	nw.	7	3.1		0	0			0	0	clear	E. O'C. MacInernev.
Grant, Fort, Arizona	25.31	642.9	29.88	758.9	68.4	20.2	55	ne.	4	1.8		0	5 s			0	0	fair	W. A. Reid.
Hatteras, North Carolina	30.06	763.5	30.08	764.0	77.0	25.0	76	w.	6	2.7		6 ck	3 k	w.		0.26	6.6	cloudy	Robert C. Lord.
Helena, Montana	25.74	653.8	29.80	756.9	58	14.4	39	s.	9	4.0		0	0			0	0	clear	R. M. Crawford.
Henrietta, Texas	29.17	740.9	30.15	765.8	71.0	21.7	84	e.	3	1.3		0	7 s			0.32	8.1	fair	S. Wheaton.
Huron, Dakota	28.65	727.7	29.97	761.2	51.7	10.9	86	se.	10	4.5		3 cs	0			0	0	clear	J. W. Byram.
Indianapolis, Indiana	29.34	745.2	30.11	764.8	57	13.9	86	nw.	1	0.4			10 s		nw.	inap.	inap.	cloudy	S. W. Glenn.
Indianola, Texas	30.08	764.0	30.11	764.8	74.6	23.7	88	se.	11	4.9			10 n		nw.	0.37	9.4	thund'r st'm	O. Schutze
Jacksboro, Texas	28.97	735.8	30.09	764.3	69	20.6	90	se.	8	3.6		3 cs	6 k		s.	0.14	3.6	cloudy	I. A. Reed.
Jacksonville, Florida	30.05	763.3	30.09	764.3	75	23.9	85	w.	1	0.4			10 n			0.27	6.9	light rain	J. P. Sherry.
Keogh, Fort, Montana	27.29	693.2	29.70	754.4	60	15.6	72	n.	6	2.7		9 cs	0	sw.		0	0	cloudy	J. W. Smith.
Keokuk, Iowa	29.50	749.3	30.13	765.3	61.0	16.1	84	nw.	2	0.9		0	0			inap.	inap.	clear	W. B. Stockman.
Key West, Florida	30.08	764.0	30.10	764.5	86.0	30.0	74	s.	3	1.3		3 cs	0			0	0	clear	F. Z. Gosewisch
Kittyhawk, North Carolina	30.08	764.0	30.10	764.5	73.0	22.8	97	sw.	4	1.8		2 c	5 ks	nw.	sw.	2.66	67.6	fair	R. H. Paxton.
Knoxville, Tennessee	29.13	739.9	30.13	765.3	64.8	18.2	90	calm	0	0		3 ck	0	sw.		0	0	clear	E. A. Beals.
La Crosse, Wisconsin	29.34	745.2	30.09	764.3	56	13.3	86	sw.	1	0.4			fg.			0.06	1.5	dense fog	J. A. Cody.
La Mesilla, New Mexico	26.19	665.2	29.93	760.2	64.8	18.2	81	sw.	6	2.7		4 c	5 s			0.02	0.5	cloudy	S. O. Emery.
Leavenworth, Kansas	29.30	744.2	30.16	766.1	55	12.8	86	calm	0	0		2 cs	sk.			0	0	clear	N. D. Lane.
Lewiston, Idaho	29.16	740.7	29.97	761.2	64.0	17.8	36	w.	7	3.1		0	0			0	0	clear	A. W. Browne.
Little Rock, Arkansas	29.89	759.2	30.20	767.1	67	19.4	78	nw.	1	0.4		0	0			0	0	clear	W. Bell.
Los Angeles, California	29.62	752.3	30.01	762.2	59.1	15.1	81	sw.	1	0.4			10 s			0	0	cloudy	W. U. Simons.
Louisville, Kentucky	29.56	750.8	30.11	764.8	66	18.9	73	w.	4	1.8		0	0			0.09	2.3	clear	E. F. Kubel.
Lynchburg, Virginia	29.40	746.7	30.07	763.8	70.0	21.1	66	w.	1	0.4			10 s			0	0	cloudy	H. C. Smyth.
Macon, Fort, North Carolina	30.07	763.8	30.08	764.0	73	22.8	84	n.	3	1.3			10 s			0.05	1.3	cloudy	W. R. Bushby.
Madison, Wisconsin	29.13	739.9	30.11	764.8	57	13.9	93	w.	3	1.3		0	fg.		w.	0.04	1.0	fair	F. P. Chaffee.
Maginnis, Fort, Montana																			C. A. Shaw.
McKavett, Fort, Texas	27.87	707.9	30.07	763.8	71	21.7	90	ne.	3	1.3		7 cs	0			inap.	inap.	fair	H. W. Dodge.
Marquette, Michigan	29.36	745.7	30.07	763.8	64	17.8	52	w.	8	3.6		0	0			0	0	clear	J. E. Thatcher.
Memphis, Tennessee	29.85	758.2	30.18	766.6	69	20.6	76	nw.	4	1.8		0	0			0	0	clear	J. Gilligan.
Milwaukee, Wisconsin	29.40	746.7	30.13	765.3	58	14.4	80	nw.	4	1.8		0	hz.			inap.	inap.	clear	D. T. Flannery.
																			W. Line.

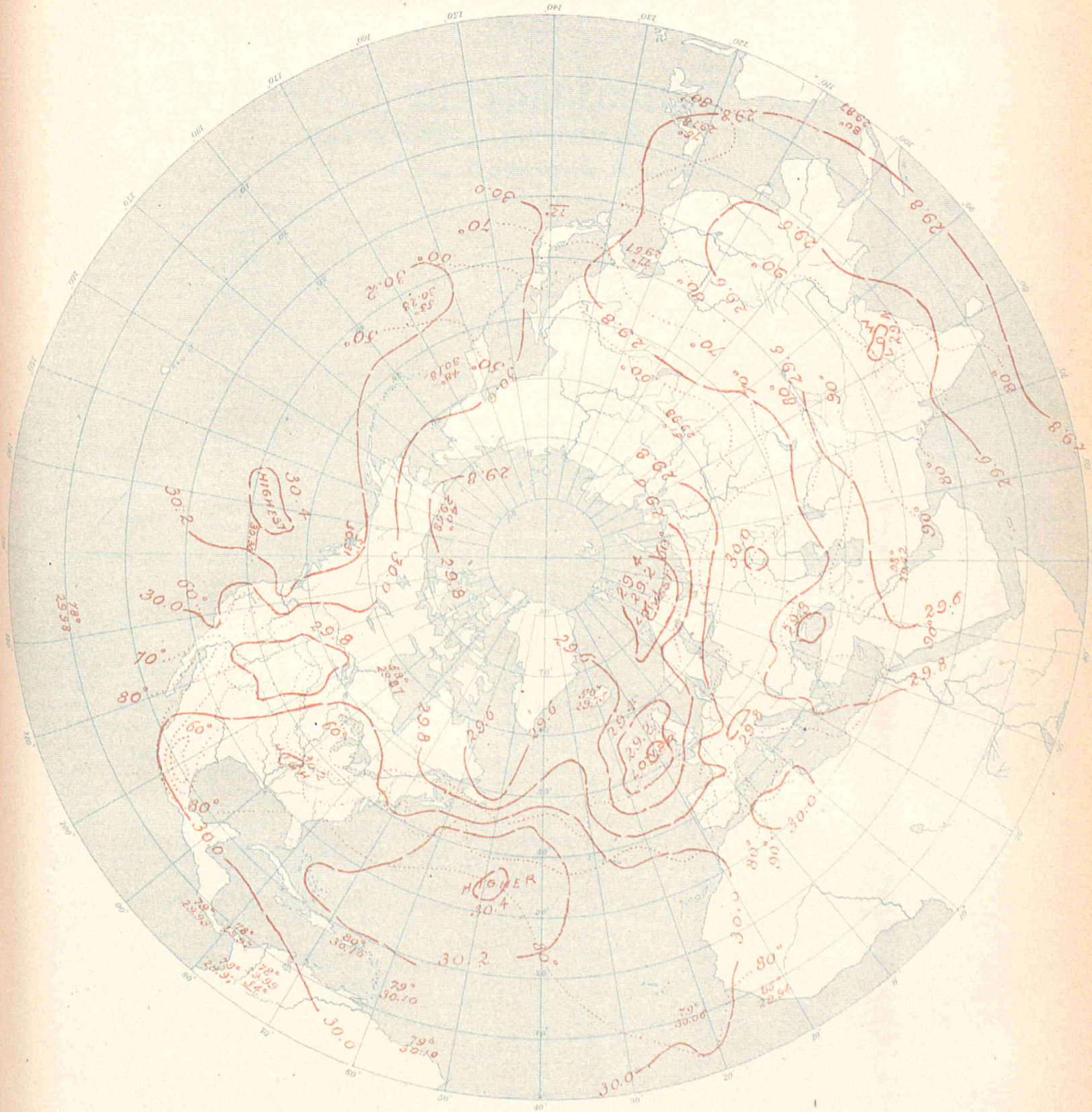
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.70	678.2	29.89	759.2	53	11.7	61	sw.	2	0.9	.....	.....	10 ks	.....	.....	0	0	cloudy	J. H. Jones.
Mobile, Alabama	30.08	764.0	30.12	765.0	71.8	22.1	85	n.	5	2.2	.....	6ck;cs	0	.....	.....	0.14	3.6	fair	O. A. Read.
Montgomery, Alabama	29.90	759.4	30.12	765.0	73.4	23.0	75	nw.	2	0.9	.....	.....	10 n	.....	w.	inap.	inap.	light rain	J. B. McLaughlin.
Moorhead, Minnesota	29.02	737.1	29.98	761.5	56	13.3	69	sw.	8	3.6	.....	5 cs	0	s.	.....	0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.10	739.1	30.10	764.5	62.5	16.9	88	calm	0	0	.....	3 ck	0	.....	.....	0.02	0.5	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.81	604.8	29.88	758.9	41.0	5.0	100	nw.	46	20.6	.....	.....	fg.	.....	nw.	1.44	36.6	dense fog	J. G. Linsley
Nashville, Tennessee	29.62	752.3	30.14	765.5	65.0	18.3	81	w.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.89	759.2	30.00	762.0	69	20.6	68	nw.	5	2.2	.....	6c;ck	0	sw.	.....	0.01	0.3	fair	J. H. Sherman.
New London, Connecticut	29.95	760.7	30.00	762.0	73	22.8	76	calm	0	0	.....	7 k	0	.....	.....	0.03	0.8	fair	J. G. Lynch.
New Orleans, Louisiana	30.08	764.0	30.12	765.0	75.5	24.2	81	n.	1	0.4	.....	3 c	7 s	nw.	n.	0.20	5.1	cloudy	L. Dunne.
Newport, Rhode Island	29.95	760.7	30.00	762.0	69.2	20.7	89	sw.	2	0.9	.....	6 c	hz.	nw.	.....	0.09	2.3	fair	W. McGillivray.
New York, New York	29.86	758.4	30.03	762.7	72	22.2	62	sw.	3	1.3	.....	3 cs	4 s	sw.	sw.	0	0	fair	J. B. Merrill.
Norfolk, Virginia	30.05	763.3	30.07	763.8	71	21.7	90	w.	3	1.3	.....	.....	10 s	.....	sw.	0.13	3.3	cloudy	H. L. Kemp.
North Platte, Nebraska	27.12	688.8	29.92	760.0	60.6	15.9	61	se.	8	3.6	.....	0	5 s	.....	w.	0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.17	766.3	30.21	767.3	55.0	12.8	80	w.	1	0.4	.....	.....	10 s	.....	calm	0	0	cloudy	J. Dascomb.
Ogdaamie, Pt. Barrow, Alas.	29.67	753.6	29.68	753.9	40.3	4.6	93	sw.	11	4.9	.....	1 c	2 s	.....	w.	0	0	clear	P. H. Ray.
Omaha, Nebraska	29.00	736.6	30.13	765.3	61.0	16.1	84	se.	2	0.9	.....	hz.	0	.....	.....	0	0	clear	A. Pollak.
Oswego, New York	29.67	753.6	29.99	761.7	65.8	18.8	74	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.61	752.1	30.15	765.8	71.0	21.7	90	ne.	8	3.6	.....	0	5 ks	.....	w.	2.05	52.1	fair	L. M. Pindell.
Pensacola, Florida	30.08	764.0	30.11	764.8	75.8	24.3	82	nw.	2	0.9	.....	2 cs	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	29.94	760.5	30.04	763.0	76	24.4	56	w.	3	1.3	.....	3 c	hz.	s.	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.98	456.7	29.76	755.9	33	0.6	78	w.	17	7.6	.....	0	8 s	.....	w.	inap.	inap.	cloudy	L. M. Dey.
Pioche, Nevada	24.07	611.4	29.80	756.9	61.0	16.1	24	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.28	743.7	30.07	763.8	62.5	16.9	81	sw.	3	1.3	.....	4 k	0	w.	.....	0.13	3.3	fair	J. H. Bryce.
Poplar River, Montana	27.62	701.5	.....	.....	.....	.....	.....	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.11	764.8	30.12	765.0	76.1	24.5	94	n.	4	1.8	.....	0	3 s	.....	n.	0.04	1.0	clear	M. Hermann.
Port Huron, Michigan	29.41	747.0	30.07	763.8	58.1	14.5	90	n.	8	3.6	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	W. O. Bailey.
Portland, Maine	29.89	759.2	29.94	760.5	70	21.1	66	w.	7	3.1	.....	7 c	0	w.	.....	0.07	1.8	fair	W. W. Eichelberger.
Portland, Oregon	30.16	766.1	30.22	767.6	55.0	12.8	80	n.	2	0.9	.....	.....	10 s	.....	ne.	0	0	cloudy	M. L. Hearne.
Prescott, Arizona	24.82	630.4	29.81	757.2	68	20.0	47	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass	29.96	761.0	29.98	761.5	71.0	21.7	84	s.	5	2.2	.....	2 cs	2 s	.....	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.10	764.5	30.11	764.8	75	23.9	88	sw.	2	0.9	.....	.....	10 n	.....	calm	0.33	8.4	light rain	W. J. Evans.
Red Bluff, California	29.47	748.5	29.83	757.7	77.3	25.2	26	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.83	757.7	30.05	763.5	82	27.8	74	se.	6	2.7	.....	2 ck	0	ne.	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.35	745.5	30.00	762.0	62	16.7	84	nw.	5	2.2	.....	.....	10 k	.....	nw.	0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.59	751.9	30.13	765.3	51	10.6	80	calm	0	0	.....	0	hz	.....	.....	0	0	light haze	J. J. Nanry.
Sacramento, California	29.75	755.6	29.82	757.4	64.2	17.9	73	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.59	751.6	30.17	766.3	60.0	15.6	93	nw.	9	4.0	.....	0	0	.....	.....	0.22	5.6	clear	J. H. Webber.
St. Paul, Minnesota	29.22	742.2	30.06	763.5	56	13.3	86	calm	0	0	.....	2 k	0	sw.	.....	inap.	inap.	clear	P. F. Lyons
St. Vincent, Minnesota	29.06	738.1	29.90	759.4	49	9.4	86	se.	5	2.2	.....	6 c;cs	0	w.	.....	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.60	650.2	29.78	756.4	67	19.4	49	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.42	747.3	30.10	764.5	72.5	22.5	82	n.	6	2.7	.....	.....	10 s	.....	s.	0.02	0.5	threatening	T. J. Kenan.
San Diego, California	29.90	759.4	29.97	761.2	63.6	17.6	85	s.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.38	746.2	30.04	763.0	61.2	16.2	87	sw.	12	5.4	.....	.....	10 s	.....	w.	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.00	761.0	30.02	762.5	73.0	22.8	76	w.	4	1.8	.....	.....	10 ks	.....	sw.	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.83	757.7	29.90	759.4	56	13.3	93	w.	6	2.7	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.35	593.1	29.85	758.2	59	15.0	54	e.	4	1.8	.....	8 c	2 s	sw.	.....	0.03	0.8	cloudy	H. U. Jones.
Savannah, Georgia	29.99	761.7	30.08	764.0	77	25.0	85	sw.	2	0.9	.....	6 ck	2 ks	.....	sw.	0.25	6.3	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.26	667.0	29.78	756.4	57	13.9	29	w.	7	3.1	.....	3 cs	0	w.	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.93	760.2	30.16	766.1	69	20.6	84	ne.	3	1.3	.....	2 ck	1 s	ne.	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.91	734.3	30.11	764.8	66	18.9	84	e.	4	1.8	.....	8 k	0	.....	.....	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.40	619.7	29.86	758.4	61	16.1	70	s.	1	0.4	.....	.....	10 s	.....	calm	0.07	1.8	cloudy	J. B. Wallace.
Sitka, Alaska	30.25	768.3	30.31	769.9	50.5	10.3	76	ne.	4	1.8	.....	8 k	0	ne.	.....	0	0	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.71	754.6	30.17	766.3	63.0	17.2	84	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.04	763.0	30.07	763.8	78	25.6	90	sw.	1	0.4	.....	.....	10 s	.....	sw.	0.58	14.7	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.96	710.2	29.94	760.5	52	11.1	69	calm	0	0	.....	2 k	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.50	749.3	30.16	766.1	62.5	16.9	78	n.	1	0.4	.....	0	0	.....	.....	0.12	3.0	clear	T. B. Jennings.
Springfield, Massachusetts	29.87	758.7	30.00	762.0	72.8	22.7	71	s.	2	0.9	.....	10 c	hz.	w.	.....	0.14	3.6	cloudy	T. S. Outram.
Springfield, Mo	28.78	731.0	30.17	766.3	59.5	15.3	87	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. B. Marbury.
Starkville, Miss	29.68	753.9	30.14	765.5	77	25.0	69	nw.	6	2.7	.....	1 cs	0	.....	.....	0	0	clear	M. J. Wright, jr.
Stevenson, Fort, Dakota	27.96	710.2	29.74	755.4	59	15.0	67	e.	4	1.8	.....	2 cs	0	.....	.....	0.14	3.6	clear	W. Burrows
Stockton, Fort, Texas	27.06	687.3	30.00	762.0	65.0	18.3	93	sw.	4	1.8	.....	8 cs	0	sw.	.....	1.63	41.4	fair	J. O'Dowd.
Thatcher's Island, Mass	29.91	759.7	29.96	761.0	67.5	19.7	78	w.	6	2.7	.....	0	0	.....	.....	0.03	0.8	clear	G. Liebmann
Toledo, Ohio	29.37	746.0	30.04	763.0	60	15.6	81	w.	5	2.2	.....	.....	10 s	.....	w.	0.07	1.8	cloudy	A. Buell.
Tucson, Arizona	27.55	699.8	29.87	758.7	76	24.4	58	se.	4	1.8	.....	5 cs	0	.....	.....	0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.74	755.4	30.10	764.5	58	14.4	64	w.	2	0.9	.....	0	hz.	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.11	739.4	30.05	763.3	75	23.9	82	se.	2	0.9	.....	.....	10 s	.....	se.	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	74.9	23.8	42	sw.	.....	.....	2	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.91	759.7	30.15	765.8	73	22.8	82	ne.	1	0.4	.....	4c;ck	0	.....	.....	1.09	27.7	fair	H. P. Brisbane.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.37	619.0	29.70	754.4	47.2	8.4	76	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	29.96	761.0	30.07	763.8	71.8	22.1	61	nw.	5	2.2	.....	8 ck	2 s	w.	.....	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.01	660.6	29.77	756.1	62.9	17.2	73	s.	3	1.3	.....	2 cs	0	.....	.....	inap.	inap.	clear	F. W. Brandenburg.
Williamsport, Pa	29.46	748.3	30.04	763.0	64	17.8	78	w.	1	0.4	.....	8 c	0	.....	.....	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.03	762.7	30.08	764.0	76	24.4	90	se.	1	0.4	.....	.....	10 s	.....	.....	0.51	13.0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.66	651.8	29.88	758.9	50	10.0	30	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.78	731.0	30.05	763.3	55	12.8	69	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.68	753.9	29.82	757.4	82.7	28.2	58	se.	20	8.9	.....	4 cs	0	nw.	.....	0	0	fair	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6	.....	.....	54.0	12.2	73	e.	2	0.9	.....	.....	10ks;s	.....	w.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.09	764.3	30.10	764.5	79	26.1	95	e.	.....	.....	.....	.....	10 n	.....	.....	.....	.....	light rain	J. A. Racker.
Buenaventura, U. S. C.	29.94	760.5	29.97	761.2	78	25.6	86	n.	2	0.9	.....	4 ck	0	n.	.....	0	0	fair	J. I. Plume.
Kingston, Jamaica, W. I.	30.10	764.5	30.11	764.8	82.5	28.1	65	ese.	2	0.9	.....	3 c	0	ne.	.....	0	0	fair	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	72	22.2	.....	ne.	.....	.....	3	3 ks	0	.....	.....	0	0	.....	S. M. Pike.
Navassa	29.97	761.2	30.05	763.3	82	27.8	69	e.	9	4.0	.....	2 k	2 s	se.	e.	0	0	.....	F. M. Everett.
Paramaribo, S. A.	30.10	764.5	30.10	764.5	79	26.1	82	se.	.....	.....	2	0	4 c	.....	e.	0.240	6.1	.....	Dr. C. J. Hering.
Puerto Herrio, U. S. Col'mba	29.43	747.5	29.99	761.7	78	25.6	89	s.	.....	.....	1	4 c	5 k	n.	s.	0.09	2.3	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	95	ne.	.....	.....	3	0	8 ks	.....	ne.	0.21	5.3	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.08	764.0	30.11	764.8	80	26.7	78	calm	0	0	.....	1 c	0	.....	.....	0	0	clear	Robert Mason.
York Factory, B. A.	29.82	757.4	29.87	758.7	58.0	14.1	94	sw.	13	5.8	.....	2 k	0	w.	.....	0	0	fair	Fortescue & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, S. 16° 43′ W. 4° 36′	30.21	767.3	68	20.0	94	sse.			2		9							d. clouds.
H. M. S. Amethyst, Montevideo, Uruguay	29.57	751.1	60	15.6	96	s.			2		7							d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.69	754.1	78	25.6		n.			3		5	n.						d. clouds.
H. M. S. Bacchante, N. 36° 15′, W. 4° 40′	29.94	760.5	74	23.3	85	s.			1		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.21	767.3	65	18.3		w.			1-2		2	w.						d. clouds.
H. M. S. Champion, N. 32° 25′, E. 139° 50′			72	22.2	100	n.			2		6					2	n.	misty.
H. M. S. Comus, N. 47° 26′, E. 165° 10′	30.19	766.8	49	9.4	85	e.			1-2		10					4	sw.	overcast.
H. M. S. Diamond, S 6° 35′, E. 154° 30′	29.90	759.4	80	26.7	91	se.			1		9					2	s.	showery.
H. M. S. Dido, N. 13° 05′, W. 59° 30′	30.11	764.8	79	26.1		ese.			2		4	e.						showery.
H. M. Dock-Yard, Bermuda, W. I.	30.27	768.8	80.5	26.9	84	se.			1-2		4	se.						d. clouds.
H. M. S. Druid, N. 26° 28′, W. 70° 20′	30.27	768.8	81.5	27.5	89	ese.			2-3		6	se.				1	se.	d. clouds.
H. M. S. Eclipse, S. 6° 09′, E. 39° 43′	30.10	764.5	78	25.6		ese.			3-4		2							d. clouds.
H. M. S. Emerald, S. 3° 00′, W. 18° 10′	30.11	764.8	75	23.9	95	ene.			1		2	ene.				1	e.	d. clouds.
H. M. S. Euryalus, N. 4° 40′ E 68° 30′	29.82	757.4	82	27.8	83	sw.			3		8	wsw.				3	wsw.	d. clouds.
H. M. S. Espiegle, S. 15° 59′ E. 167° 12′	30.06	763.5	75	23.9	72	calm			0		2							squally.
H. M. S. Fantome, Saint Lucia, Jamaica	30.08	764.0	82	27.8		calm			0		4	e.						d. clouds.
H. M. S. Fawn, S. 34° 16′, E. 25° 31′	30.17	766.3	64.5	18.1	83	ene.			3		1					3	s.	blue sky.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.05	763.3	59	15.0	94	sse.			3		10							drizzling.
H. M. S. Garnet, S. 3° 40′, W. 20° 15′	30.15	765.8	77	25.0	82	ene.			4		6							d. clouds.
H. M. S. Griffon, N. 51° 36′, W. 55° 27′	29.46	748.3	51	10.6	93	se.			1		10							showery.
H. M. S. Iris, Port Said, Egypt	29.95	760.7	80	26.7	75	wnw.			2-4		1	wnw.				2	wnw.	blue sky.
H. M. S. Iron Duke, N. 42° 19′ E. 139° 40′	29.91	759.7	65	18.3	94	nnw.			1		4	nw.						d. clouds.
H. M. S. Kingfisher, N. 41° 10′ W. 124° 26′	30.00	762.0	51	10.6		n.			4-5		2					8	nnw.	squally.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.92	760.0	78.3	25.7	93	se.			2		3					1	se.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.20	767.1	51.5	10.8		ne.			2		10							raining.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	29.90	759.4	79.1	26.2	86	calm			0		0							blue sky.
H. M. S. Minotaur, N. 32° 50′, E. 31° 25′	29.74	755.4	77	25.0	77	w.			3		5					2	wsw.	d. clouds.
H. M. S. Nelson, S. 36° 50′, E. 174° 49′	29.37	746.0	57	13.9	87	w.			4		4	e.						raining.
H. M. S. Northampton, Halifax, Nova Scotia	29.87	758.7	65.5	18.6	87	wsw.			1		4	w.						d. clouds.
H. M. S. Orion, N. 36° 29′, W. 7° 36′	29.97	761.2	75.5	24.2		nne.			1		0							blue sky.
H. M. S. Orontes, N. 35° 14′ E. 19° 59′			76.5	24.7	92	nnw.			4		4	nnw.				3	nw.	d. clouds.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.87	758.7	79.5	26.4	86	ene.			4		10					2	e.	d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Is d	30.16	766.1	70	21.1	95	se.			2		6	ese.						d. clouds.
H. M. S. Rocket, Vancouver Island, B. A	30.18	766.6	52	11.1	93	wsw.			5		2							d. clouds.
H. M. S. Sappho, Tahiti, Society Islands, Oceania	29.93	760.2	75.5	24.2		calm			0									d. clouds.
H. M. S. Swiftsure, S. 30° 50′ W. 48° 45′	30.11	764.8	69.5	20.8	92	nnw.			5		4	w.				5	n.	d. clouds.
H. M. S. Sylvia, Maldonado, Uruguay	29.61	752.1	64.7	18.2	83	n.			3		7	nw.						d. clouds.
H. M. S. Tamar, N. 34° 39′, E. 26° 43′	29.74	755.4	70.5	21.4	100	ene.			1		0							blue sky.
H. M. S. Tenedos, N. 49° 28′ W. 57° 57′	29.65	753.1	57	13.9	87	sw.			3-5		8							squally.
H. M. S. Tourmaline, N. 34° 50′, E. 21° 30′	29.86	758.4	75	23.9		nnw.			2-3		1	nnw.						blue sky.
H. M. S. Triumph, S. 37° 42′ W. 74° 17′	30.25	768.3	49	9.4	71	ssw.			2-4		4	ssw.				6	ssw.	showery.
H. M. S. Woodlark, N. 29° 40′, E. 48° 55′	29.32	744.7	97.5	36.4	56	nw.			1-2		0							blue sky.
H. M. S. Zephyr, N. 29° 00′, E. 124° 20′	29.79	756.7	83	28.3	95	se.			3		0					1	sse.	blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.08	764.0	77.9	25.5	88	ne.			2		10					2	ne.	overcast.
Tamega, Macao, China	29.65	753.2	86.0	30.0	76	s.			4		8		nw.					
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.06	763.5	74	23.3	81	nw.	3	1.3			2		sw.	0	0			fair.
N. Yard, Portsmouth, N. H	29.98	761.5	72	22.2	71	calm	0	0			3		w.	0	0			fair.
Naval Hospital, Yokohama, Japan*	29.84	757.9	72	22.2	85	calm			0		2			0	0			clear.
Adams, Mare Island, Cal	29.92	760.0	58	14.4		sw.			2		0			0	0	sm'h		clear.
Alaska, Callao, Peru	29.95	760.7	60	15.6	82	se.			1		10			0	0	sm'h		cloudy.
Alert, N. 45° 49′, W. 139° 29′*	30.25	768.3	58	14.4	88	s.			4		5		sw.	0	0	sm'h		fair.
Alliance, Boston, Mass	30.01	762.2	72	22.2	76	w.			1		2			0	0			clear.
Ashuelot, Yokohama, Japan*	29.87	758.7	73	22.8	85	s.			2		8		calm					fair.
Brooklyn, Rio de Janeiro, Brazil	30.27	768.8	69	20.6	95	ne.	2	0.9			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	29.99	761.7	73	22.8	67	wsw.	5	2.2			8		sw.	0	0			hazy.
Constellation, N. 38° 06′, W. 73° 17 *	30.04	763.0	73	22.8	95	sw.			1		10		calm			sm'h		cloudy.
Enterprise, N. 41° 30′ W. 69° 15′*	29.99	761.7	61	16.1	100	sw.			3		10		sw.			mod.	sw.	foggy.
Essex, S. 45° 08′, W. 81° 14′	30.28	769.1	44	6.7	76	ne.			1-2		5?		ne.			mod.	se.	clear.?
Franklin, Norfolk, Va	30.08	764.0	69	20.6	100	wsw.	5	2.2			8		wsw.	0.31	7.9			foggy.
Galena, N. 34° 46′, E. 25° 40′	29.73	755.1	76	24.4	95	wnw.			3		0					mod.	wnw.	clear.
Independence, Mare Island, Cal	29.92	760.0	57	13.9	94	sw.			4		8		sw.	0	0			cloudy.
Iroquois, San Pablo Bay, Cal	29.99	761.7	60	15.6	76	ssw.			3		10			0	0			overcast.
Kearsarge, Norfolk, Va	30.07	763.8	71	21.7	95	calm			0		8							cloudy.
Lackawana, Callao, Peru*	29.99	761.7	60	15.6	88	calm			0		10							cloudy.
Lancaster, Alexandria, Egypt*	29.78	756.4	82	27.8	96	nw.			2		0			0	0			clear.
Marion, S. 34° 54′, W. 56° 13′	29.59	751.6	61	16.1	100	ssw.			4		10		s.	light	light	sm'h		squally.
Michigan, Detroit, Mich	30.12	765.0	60	15.6	88	nw.			1		2?							cloudy.?
Minnesota, Newport, R. I	29.94	760 5	69	20.6	90	wsw.	1	0.4			8		wsw.					cloudy.
Monocacy, Chefoo, China	29.67	753.6	77	25.0	91	calm			0		10		calm			sm'h		cloudy.
New Hampshire, Newport, R. I	29.99	761.7	67	19.4	89	sw.			1		8		sw.			sm'h		fair.
Nipsic, Alexandria, Egypt*	29.75	755.6	81	27.2	74	nw.			2		0					sm'h		hazy.
Onward, Callao, Peru†	30.16	766.1	59	15.0	94	sse			2		10					long	w.	cloudy.
Palos, Kobe, Japan*	29.83	757.7	76	24.4	86	wsw.			1		2		w.					fair
Passaic, Washington, D. C	30.10	764.5	74	23.3	81	nw.			2		5		nw.					fair.
Pensacola, Panama, Panama*	29.83	757.7	77	25.0	95	wsw.	1	0.4			10			0.20	5.1	sm'h		light rain.
Portsmouth, N. 36° 45′ W. 8° 28′*	29.92	760.0	65	18.3	94	nw.			3		0					sm'h		clear.
Powhatan, Pensacola, Florida	30.09	764.3	78	25.6	78	n.			3		5							fair.
Quinnebaug, Alexandria, Egypt	29.77	756.1	80	26.7	78	nw.			2		2		calm			sm'h		hazy.
Ranger, Mare Island, Cal	29.92	760.0	64	17.8	83	sw.			3		5		calm	0	0			fair.
Richmond, Yokohama, Japan*	29.86	758.4	75	23.9	90	s.			1		0			0	0			clear.
Saratoga, N. 36° 42′ W. 8° 32′	29.94	760 5	65	18.3	84	nw.			3		1		nw.	0	0	sm'h		clear.
St. Louis, League Island, Pa	30.22	767.6	73	22.8	81	calm			0		5		wsw.	0	0			misty.
Swatara, Yokohama, Japan*	29.81	757.2	74	23.3	81	s.			1		2		calm			sm'h		hazy.
Tennessee, N. 41° 23′, W. 69° 11′*†	30.08	764.0	62	16.7	88	w.	8	3.6			10			0.05	1.3	long	sw.	dense fog.
Vandalia, Portsmouth, N. H*	29.94	760.5	72	22.2	76	w.			1		8		calm					foggy.
Wabash, Boston, Mass	29.96	761.0	70	21.1	80	wnw.	2	0.9			8		nw.	0	0			fair.
Wachusetts, Highfield Harbor, Alaska†	30.51	774.9	49	9.4	93	ese.			1		5		calm	0	0	sm'h		fair.
Wyoming, Port Royal, S. C*	30.02	762.5	78	25.6	86	wnw.	4	1.8			10		sw.	0	0			overcast.
Yantic, Provincetown, Mass	30.00	762.0	67	19.4	95	sw.			2		2							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 55° 34′, W. 30° 52′*	29.80	756.9	54	12.2	86	nnw.			4		3		n.	0	0	1	n.	d. clouds.
S. S. Grecian, N. 56° 40′, W. 23° 30′*	29.55	750.6	54	12.2		nne.			6		10		nne.	0	0	high	ne.	cloudy.
S. S. Nova Scotian, N. 43° 14′ W. 65° 30′	29.95	760.7	56	13.3		ssw.			3		10		s.			slight	con.	foggy.
S. S. Waldensian, Galway, Ireland*	29.15	740.4	58	14.4		ssw.			5		10		sw.	sh'rs	sh'rs	long.	wsw.	rainy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, Liverpool, Eng*†	29.56	750.8				nnw.			4		4		nw.	7 h'r	7 h'r			fine.
S. S. Lord Gough, N. 43° 53′ W. 58° 08′	29.99	761.7	61	16.1		sw.			5		0			0	0	long	sw.	foggy.
AMSTERDAM LINE.																		
S. S. Jason, N. 49° 35′, W. 9° 35′	29.43	747.5	59.9	15.5		sw.			5		6 ks					5	sw.	
ANCHOR LINE.																		
S. S. Alexandria, N. 36° 38′ W. 7° 53′	29.99	761.7	64	17.8		w.			2		0			0	0	1	nw.	clear.
S. S. Assyria, N. 40° 40′, W. 41° 33′*†	30.43	772.9	68	20.0		calm			0		0			0	0	sm'h		clear.
S. S. Devonia, N. 44° 16′, W. 45° 18′†	30.31	769.9	62	16.7		s.			2		9		ssw.			short	sw.	cloudy.
S. S. Galatia, Port Said, Suez Canal†	29.94	760.5	80.3	26.8		nne.			4					0	0			
S. S. India, N. 36° 04′, W. 6° 35′*	29.88	758.9	75	23.9	90	nnw.			2							mod.	nw.	hazy.
ATLAS LINE.																		
S. S. Alvo, N. 11° 27′, W. 74° 27′	29.96	761.0				ne.			6		2		ene.	0	0	r'gh		clear.
S. S. Antillas, N. 18° 20′, W 74° —′*†	30.20	767.1				se.			2									
BOSTON AND HALIFAX.																		
S. S Carroll, Canso Light, N. S †	30.03	762.7	61	16.1		sw.			3		fg.			0	0	long	ssw.	d. clouds.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, N 4° 29′ W. 22° 09′	30.03	762.7	78	25.6	90	sse.			4		5							blue sky.
S. S. Basil, N. 27° 57′, W. 19° 25′	30.07	763.8	73.8	23.2	81	ne.			3		10							d. clouds.
S. Baroda, S. 34° 10′, E. 26° 15′	30.23	767.8	64.5	18.1	90	ne.			4		0							blue sky.
S. S. Cipero, N. 34° 40′ W 42° 01′	30.29	769.4	78	25.6	90	nnw.			2		4							d. clouds.
S. S. City of Agra, N. 5° 58′, W. 20° 45′	30.04	763.0	79	26.1	75	s.			5		9							d. clouds.
S. S. Glencairn, N 38° 53′, W. 37° 14′	30.23	767.8	69	20.6	75	nnw.			6		8							d. clouds.
S. S Gordon Castle, N. 37° 15′, W. 9° 48′	30.01	762.2	73	22.8	85	nne.			3		2							misty.
S. S. Markland, S. 36° 37′, W. 119° 22′	29.70	754.4	56.2	13.4	97	wnw.			6		5					5	w.	d. clouds.
May Hulse, S. 1° 17′, W. 23° 45′	30.08	764.0	76	24.4	81	ene.			4		4							d. clouds.
S. Oamaru, S. 34° 14′, E. 25° 30′	30.25	768.3	65.5	18.6	84	ene.			5									misty.
S. S. Pole Star, N. 25° 52′, W. 35° 33′	30.27	768.8	76.2	24.6	95	ne.			4		7							blue sky.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 24° 11′, W. 109° 14′*†	29.96	761.0	82	27.8	87	nw.			2		0							clear.
CROMWELL LINE.																		
S. S. Hudson, N. 27° 20′, W. 86° 40′†	30.16	766.1	80	26.7		wnw.			3		3		nw.	0	0	mod.	sw.	fair.
CUNARD LINE.																		
S. S. Bothnia, off Cable Island, Ireland	29.34	745.2	62	16.7	88	s.			5		10		s.	12 h'r	12 h'r	mod.	s.	misty.
S. S. Scythia, Liverpool, Eng	29.50	749.3	65.5	18.6	90	ssw.			2		4		ssw.	sl't	sl't			fine.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Ville de Marseilles, Marseilles, France*†	29.85	758.2	72	22.2		nnw.			2		fg.			0	0			foggy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, Hamburg, Germany	29.85	758.2				ssw.			4		5		ssw.	0	0			
S. S. Herder, N. 40° 12′, W. 69° 20′*†	30.00	762.0	79	26.1		sse			2		2		s.	3 h'r	3 h'r	long	sw.	fair.
S. S. Silesia, N. 41° 26′, W. 58° 54′†	30.34	770.6				sw.			6		0			0	0	4	wsw.	clear.
INMAN LINE.																		
S. S. City of Berlin, N. 41° 30′, W. 58° —′	30.14	765.5				w.			2		1		w.	0	0	mod.	w.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 7° 30′ W. 26° 30′.*†	30.21	767.3	80	26.7		sw.			5		9		wsw.	0	0	sm'h		cloudy.
MALLORY LINE.																		
S. S. Colorado, N. 24° 53′, W. 84° 50′†	30.12	765.0	81	27.2		se.			2		2		se.	0	0	sm'h		clear.
MED TERRANEAN AND NEW YORK STEAMS IP CO.																		
S. S. Archimede, N. 35° 04′ W. 48° 05′ *†	30.42	772.7	80	26.7	86	nnw.			2		1		nnw.	½ h'r	½ h'r	sm'h		clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 47° 17′, W. 29° 50′.†	29.86	758.4	61	16.1	94	nw.			6		mist		nw.	0	0	mod.	nw.	hazy.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 5° 36′, W. 34° 17′	29.60	751.8				ese.			4				se.	18 h'r	18 h'r		ese.	cloudy.
MORGAN LINE.																		
S. S. New York, N. 25° 26′, W. 84° 27′ *†	30.20	767.1	82	27.8		calm			0					sq'lls	sq'lls			clear.
NATIONAL LINE.																		
S. S. Denmark, N. 49° 00′ W. 19° 33′	29.39	746.5	59	15.0		nw.			5		8		nw.	0	0	long	nnw.	cloudy.
S. S. England, N. 40° 45′, W. 53° 51′	30.31	769.9				wsw.			5		5?		w.	0	0	mod.	w.	cloudy.?
S. S. Erin, N. 51° 19′, W. 13° 51′	29.20	741.7	54	12.2		wnw.			3		0			0	0	long	w.	
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Saratoga, Havana, Cuba, W. I.†	30.34	770.6	80	26.7	86	calm			0		0			3 h'r	3 h'r			clear.?
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W. I †	30.26	768.6	78	25.6	86	calm			0		2		ne.	½ h'r	½ h'r			showery.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. State of Nebraska, N. 45° 30′, W. 43° 17′†	30.20	767.1	62	16.7		ssw.			3							sm'h		
NORTH GERMAN LLOYD.																		
S. S. America, N. 49° 58′, W. 4° 22′*	29.62	752.3	63.5	17.5		s.			5		9		s.	0	0	mod.	s.	hazy.
S. S. Hohenzollern, N. 44° 19′, W 32° 24′*	30.01	762.2	56.3	13.5		n.			6		9		nw.	0	0	mod.	n.	cloudy.
S. S. Mosel, N. 41° 42′ W. 63° 14′	30.16	766.1	57.2	14.0		wsw.			5		9		wsw.	½ h'r	½ h'r	long	wsw.	heavy rain.
S. S. Ohio, Bremerhaven, Germany	29.78	756.4				ssw.			2–4		5?		ssw.	6 h'r	6 h'r			cloudy.?
S. S. Saller, N. 40° 33′, W. 53° 55′	30.31	769.9	66.2	19.0		sw.			3		2		sw.	0	0	mod.	sw.	fair.
S. S. Strassburg, N. 44° 54′, W. 37° 27′	30.17	766.3	64.0	17.8	85	n.			2		8		nw.	2 h'r	2 h'r	mod.	nw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 36° 06′, E. 141° 50′*†	29.92	760.0	70	21.1	90	e.			3		2		s.	0	0			blue sky.
S. S. Belgic, San Francisco, Cal.†	29.98	761.5	60	15.6	88	sw.			4		10		sw.					foggy.
S. S. Coptic, Hong Kong, China	29.52	749.8	82.0	27.8	89	sse.			3		8		se.	0	0	2		d. clouds.
S. S. Oceanic, Hong Kong, China*	29.52	749.8	82	27.8	87	s.			4		10		se.					misty.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York. N. Y.†	30.06	763.5				wnw.			1		8		w.	0	0			clear?
S. S. City of Columbus, N 34° 36′ W. 76° 00′ †	30.05	763.3				n.			3		4?		w.	sh'rs	sh'rs	mod.	ssw.	cloudy.?
S. S. Seminole, N. 32° 50′ W. 79° 12′†	30.14	765.5	82	27.8	83	s.			1		8		sw.	1 h'r	1 h'r	mod.	ssw.	cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 37° 50′, W. 122° 41′†	29.91	759 7	54.5	12.5	90	sse.			2		10		calm	0	0	light	nw.	foggy.
S. S. Oregon, Portland, Oregon†	30.20	767.1	58	14.4	70	nw.			1		10							cloudy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	29.85	758.2	56	13.3	93	w.			1		10		w.					cloudy.
S. S. Dakota, Victoria, B. C *†	30.20	767.1	59	15.0	94	sw.			1		2		w.			sm'h		clear.
S. S. State of California, San Francisco, Cal.†	29.90	759 4	54	12.2	100	w.			2		10		w.					overcast.
S. S. Victoria, San Francisco, Cal.†	29.90	759.5	57	13.9	93	calm			0		5			0	0	sm'h		hazy
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	30.33	770.4	48	8.9	92	nw.			2		0			0	0			clear.
S. S. City of New York, S. 1° 04′, W. 164° 52′†	30.01	762.2	81	27.2	78	e.			3		0			0	0	mod.	e.	clear.
S. S. City of Pekin, N. 47° 50′, W. 176° 37′†	30.10	764.5	46	7.8	100	n.			3		10		n.	0	0	light	w.	misty.
S. S. City of Rio de Janeiro, N. 16° 53′, W. 100° 15′*†	30.20	767.1	82	27.8	83	e.			2		8		e.	½ h'r	½ h'r	light	se.	fine.
S. S. City of Sydney, S. 34° 03′, E. 158° 51′†	30.08	764.0	57	13.9	69	sw.			0		5		sw.	0	0	hv'y	sw.	fine.
S. S. City of Tokio, N. 42° 30′, W. 126° 06′†	30.38	771.6	53	11.7	80	sw.			2		10		sw.	0	0	small	ssw.	fine.
S. S. Colon, Aspinwall, Panama†	29.97	761.2	78	25.0		s.			1		10		se.	2 h'r	2 h'r	mod.		overcast.
S. S. Colima, N. 8° 27′, W. 84° 00′†	29.93	760.2	79	26.1	82	wnw.			3		8		wnw.	0.18	4.6	small	s	cloudy.
S. S. Granada, N. 30° 54′ W. 117° 10′†	29.95	760.7	62	16.7	100	nw.			2		10			0	0	light	wnw.	hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, Guadaloupe, W. I.	29.95	760.7	82	27.8	.....	ene.	.....	.....	3	.....	10	.....	.....	0	0	sm'h	.....	overcast.
S. S. Bermuda, N. 22° 54′, W. 64° 45′†	30.25	768.3	84	28.9	.....	e.	.....	.....	4	.....	6	.....	e.	h'vy	h'vy	long	e.	cloudy.
RED STAR LINE.																		
S. S. Belgenland, N. 48° 28′ W. 8° 33′†	29.49	749.0	60	15.6	100	sw.	.....	.....	7	.....	1	.....	ssw	rain	rain	r'gh	wsw.	drizzling.
S. S. Nederland, N. 42° 53′, W. 41° 10′†	30.20	767.1	63	17.2	91	wnw.	.....	.....	2	.....	0	.....	.....	.....	.....	sm'h	ne.	clear.
S. S. Rhynland, N. 40° 38′, W. 70° 26′	30.03	762.7	68	20.0	84	ssw.	.....	.....	4	.....	9	.....	ssw.	0.2	5.	light	sw.	cloudy.
S. S. Vaderland, Antwerp, Belgium	29.65	753.1	67	19.4	74	ssw.	.....	.....	3	.....	10	.....	sw.	0	0	.....	.....	overcast
ROTTERDAM LINE.																		
S. S. P. Caland, N. 47° 40′ W. 24° 30′	29.57	751.1	59.7	15.4	96	wsw.	.....	.....	6	.....	9 u	.....	sw.	.....	.....	long	.....	rainy.
S. S. W. A Scholten, N. 41° 07′, W. 60° 50′	30.16	766.1	67.0	19.4	92	sw.	.....	.....	4	.....	6	.....	wsw.	0	0	sm'h	w.	hazy.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.18	741.2	64	17.8	.....	ssw.	.....	.....	3	.....	9	.....	ssw.	8 h'r	8 h'r	.....	.....	cloudy.
S. S. State of Georgia, N. 51° 12′ W. 28° 04′†	29.66	753.4	57	13.9	.....	nnw.	.....	.....	6	.....	9	.....	nnw.	0	0	mod.	nnw.	cloudy.
S. S. Indiana, N. 40° 25′, W. 69° 35′†	30.29	769.4	67	19.4	.....	var.	.....	.....	1	.....	5	.....	s.	0	0	mod.	sw.	hazy.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.13	765.3	69.8	21.0	.....	ssw.	.....	.....	2	.....	7	.....	ssw.	0	0	.....	.....	covered.
WHITE STAR LINE.																		
S. S. Celtic, N. 50° 48′, W. 15° 44′†	29.30	744.2	60	15.6	88	wnw.	.....	.....	2	.....	8	.....	wnw.	sh'rs	sh'rs	mod.	wnw.	showery.
S. S. Republic, Liverpool, England†	29.68	753.9	68	20.0	70	sw.	.....	.....	4	.....	5	.....	sw.	0	0	.....	.....	d. clouds.
WILSON LINE.																		
S. S. Romano. N. 52° 40′, E. 1° 30′	.....	.....	68	20.0	.....	s.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
WINSOR LINE.																		
S. S. Catherine Whiting, Providence, R. I.†	30.06	763.5	78	25.6	.....	sw.	.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	hazy.
MISCELLANEOUS.																		
Schr. Ajax, Pass Cavallo, Texas†	30.18	766.6	.....	.....	.....	nne.	.....	.....	3	.....	10	.....	w.	2 h'r	2 h'r	sm'h	nne.	cloudy.
Bk. Alpha, New York, N. Y†	29.97	761.2	78	25.6	.....	calm	.....	.....	0	.....	3	.....	.....	0	0	.....	.....	misty.
Schr Annie Lewis, Aransas Pass, Texas†	30.21	767.3	80	26.7	.....	se.	.....	.....	3	.....	8	.....	se.	4 h'r	4 h'r	long	se.	cloudy.
Bk. Anna Thormann, S. 39° 45′ E. 11° 39′	30.08	763.9	57.0	13.9	83	nne.	.....	.....	6	.....	6 k:s	.....	nw.	0	0	cross	sw.	fair.
S. S. Antonio Lopez, N. 27° 29′, W. 18° 56′	30.06	763.5	72	22.2	81	nne.	.....	.....	4	.....	8	.....	.....	0	0	mod.	.....	cloudy.
Bk. Argonant, N 56° 04′ W. 19° 51′*†	29.38	746.2	56.3	13.5	.....	ne.	.....	.....	7	.....	8	.....	nne.	5 h'r	5 h'r	hv'y	ne.	covered.
Schr. Asa Eldridge, N. 25° 08′, W, 81° 47′†	30.20	767.1	.....	.....	.....	s.	.....	.....	2	.....	6	.....	sw.	3 h'r	3 h'r	.....	.....	squally.
S. S. Burswell, N 39° 46′, W. 55° 30′*†	30.34	770.6	81	27.2	.....	wsw.	.....	.....	2	.....	2	.....	wsw.	0	0	sli't	w.	very fine.
Bk. Cato, N. 60° 33′, W. 8° 40′*†	29.75	755.6	.....	.....	.....	ese.	.....	.....	6	.....	6	.....	ese.	rain	rain	mod.	ese	raining.
Bk. Celestina, S. 31° 45′, W. 40° 01′*†	30.36	771.1	.....	.....	.....	ne.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	ne.	clear.
Schr. C. R. Flint, Cedar Keys, Florida†	30.31	769.9	80	26.7	.....	ene.	.....	.....	2	.....	5?	.....	ene.	shr's	shr's	.....	.....	cloudy.
S. Cornelius, N 38° 40′, W. 55° 15′*†	30.56	776.2	79	26.1	.....	w.	.....	.....	3	.....	1	.....	w.	0	0	sm'h	w.	clear.
Schr. Edith R. Seward, Ponce, Porto Rico, W. I*†	30.18	766.6	83	28.3	.....	calm	.....	.....	0	.....	2	.....	calm	0	0	.....	.....	clear.
S. E. J. Spicer, New York, N. Y.*	30.03	762.7	74	23.3	.....	w.	.....	.....	2	.....	5	.....	w.	0	0	.....	.....	
Bk. E. L. Pettingill, N. 41° 34′, W. 133° 45′†	30.50	774.7	.....	.....	.....	nne.	.....	.....	5	.....	8	.....	n.	0	0	sm'h	nw.	cloudy.
S Enoch Train, N. 38° 43′, W. 54° 30′*†	30.37	771.4	.....	.....	.....	wsw.	.....	.....	2	.....	0	.....	.....	0	0	light	sw.	clear.
Bk. Essex, S. 37° 55′ E. 2° 30′*†	29.61	752.1	59	15.0	.....	ne.	.....	.....	4	.....	1	.....	ne.	6 h'r	6 h'r	hv'y	n	clear.
Bk. Freya, N. 40° 30′ W. 68° 58′	.....	.....	.....	.....	.....	ssw.	.....	.....	2	.....	10	.....	.....	5 h'r	5 h'r	mod.	ssw.	rain & fog.
S. Grecian, Hong Kong, China*†	29.65	753.1	85	29.4	.....	calm	.....	.....	0	.....	1	.....	e.	0	0	.....	.....	clear.
Bk. Hattie G. McFarland, N. 40° 50′, W. 73° 50′*†	30.12	765.0	72	22.2	.....	calm	.....	.....	0	.....	6	.....	.....	0	0	long	sw.	cloudy.
S. Hedwig, N. 38° 44′, E. 19° 24′	29.82	757.3	73.6	23.1	85	nnw.	.....	.....	6	.....	2	.....	nnw.	0	0	5	nnw.	stormy.
Bk. Horace Scudder, N. 31° 18′, W. 58° 36′†	30.43	772.9	81	27.2	.....	ese.	.....	.....	2	.....	5	.....	s.	¼ h'r	¼ h'r	mod	nw.	blue sky.
S. Ivy, N. 9° 38′, W. 124° 07′†	30.18	766.6	78	25.6	.....	sw.	.....	.....	1	.....	2	.....	s.	3 h'r	3 h'r	mod	sse.	heavy rain.
S. Ismir, S. 46° 40′, E. 60° 00′†	28.92	734.6	.....	.....	.....	wsw.	.....	.....	9	.....	10	.....	.....	5 h'r	5 h'r	h'vy	nw.	
Schr. Jennie N. Huddell, Holmes Hole, Mass†	30.18	766.6	70	21.1	95	calm	.....	.....	0	.....	fg.	.....	.....	0	0	.....	.....	foggy.
Bk. Johanne, N. 54° 45′, W. 26° 30′*†	29.69	754.1	56	13.3	.....	ne.	.....	.....	5	.....	1	.....	se.	0	0	h'vy	e.	clear.
Schr. John L. Thomas, N. 17° 17′, W. 83° 40′*†	30.10	764.5	.....	.....	.....	ne.	.....	.....	3	.....	1	.....	ene.	0	0	mod	e.	clear.
Bg. John Wesley, N. 27° 40′ W. 71° 41′†	30.10	764.5	.....	.....	.....	sse.	.....	.....	3	.....	3	.....	se.	1 h'r	1 h'r	mod	sse.	clear.
Bk. Joseph A. Ropes, N. 4° 48′, W. 23° 04′*†	30.08	764.0	80	26.7	86	s.	.....	.....	6	.....	6	.....	s.	0	0	chop	s.	cloudy.
Bkt. Josephine, N. 36° 58′ W. 73° 51′†	30.06	763.5	76	24.4	81	w.	.....	.....	3	.....	8	.....	sw.	2 h'r	2 h'r	mod.	s.	fair.
Bkt. Kryolith, N 48° 48′ W. 51° 43′*†	29.70	754.4	.....	.....	.....	sse.	.....	.....	6	.....	fg.	.....	.....	.....	.....	cross	sse.	foggy.
S. S. Lamperis, Malta, Mediterranean*	29.85	758.2	79.1	26.2	73	nw.	.....	.....	3	.....	2 k	.....	.....	.....	.....	1	.....	blue sky
Light House Tender, Laurel, N. 29° 34′, W. 84° 22′*	30.11	764.8	83	28.3	.....	wnw.	.....	.....	1	.....	2	.....	wnw.	1 h'r	1 h'r	.....	.....	clear.
Bk. Liberia, N. 10° 05′, W. 24° 07′*	29.96	761.0	79	26.1	90	wnw.	.....	.....	4	.....	6	.....	.....	5 h'r	5 h'r	.....	s.	
S. S. Madrid, Mouth Chesapeake Bay,*†	30.18	766.6	77	25.0	.....	w.	.....	.....	3	.....	1	.....	sw.	0	0	sm'h	s.	clear.
S. S. Malabar, N. 44° 38′, W. 136° 34′*†	30.47	773.9	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	.....	0	0	.....	.....	
S. Orealla, N. 35° 49′, W. 56° 37′*	30.16	766.1	80	26.7	.....	ssw.	.....	.....	2	.....	1	.....	nw.	0	0	sm'h	.....	clear.
S. Paramita, S. 12° 55′ W. 104° 40′†	29.96	761.0	79	26.1	.....	ese.	.....	.....	5	.....	2	.....	ese.	0	0	long	sse.	clear.
S. S. Ponca, N. 23° 40, W. 65° 59′†	30.30	769.6	86	30.0	.....	e.	.....	.....	2	.....	1	.....	e.	0	0	mod.	ese.	clear.
S. S. Sunbeam, Odessa, Russia	29.64	752.8	85	29.4	64	wnw.	.....	.....	2	.....	6	.....	nw.	.....	.....	.....	.....	d. clouds.
S. Sovereign of the Sea, N. 5° 08′, W. 25° 30′*†	29.96	761.0	81	27.2	91	sse.	.....	.....	6	.....	3	.....	sse.	mist	mist	r'gh	cross	hazy.
Bg. Teneriffe, Cardenas, Cuba, W. I	30.06	763.5	.....	.....	.....	se.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	
Bk. Truro, N. 43° 50′, W. 34° 40′*†	30.07	763.8	.....	.....	.....	nnw.	.....	.....	5	.....	10	.....	nnw.	2 h'r	2 h'r	mod	cross	cloudy.
U.S.F.C.S.S. Fish Hawk, Havre de Grace, Md†	30.23	767.8	76	24.4	90	nw.	.....	.....	3	.....	6	.....	calm	0	0	.....	.....	fair.
Schr Viola Reppard, Baltimore, Md†	30.06	763.5	76	24.4	.....	n.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
Bk. Wm. Wilcox, S. 35° 10′ W 53° 50′*†	29.85	758.2	64	17.8	.....	sw.	.....	.....	4	.....	5	.....	n.	3 h'r	3 h'r	mod.	nne.	fair.
S. Wm. Woodbury, N. 53° 47′ E. 5° 26′*	29.71	754.6	66	18.9	78	ssw.	.....	.....	4	.....	6	.....	ssw.	0	0	sm'h	sw.	cloudy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 15, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.90	759.4	76.3	24.6	80	n.			1		9			0	0	covered	Bouvier.
Algiers			29.88	758.9	78.1	25.6	76	nnw.			2		0			0	0	clear	Nicolas.
La Galle			29.89	759.3	86.7	30.4	70	se.			1		0			0	0	clear	Fonfrède.
Tunis			29.91	759.6															Jacques.
Saida			30.03	762.7	83.8	28.8	20	wsw.			2		0			0	0	clear	Perés.
Tebessa			29.97	761.1	82.8	28.2	32	se.			1		0			0	0	clear	Derché.
Geriville					86.4	30.2	0	nnw.			2		3			0	0	pretty fair	Lonchamp.
Laghouat			30.01	762.3	101.1	38.4	39	w.			3		0			0	0	clear	Abraham.
Biskra			29.98	761.5	100.0	37.8	18	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.24	768.1	30.33	770.4	46.4	8.0	92	w.	2	0.9			10			0.02	0.5	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.29	743.9	29.81	757.1	80.6	27.0	46	sw.			3		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.08	738.6	29.80	757.0	79.5	26.4	44	nw.	4.9	2.2			4			0	0		Dr. Wierzbiski.
Eperies	28.94	735.1	29.78	756.3	74.8	23.8	62	n.			4	4 cs	0			0	0		Julius Mikolik.
Gratz	28.61	726.8	29.80	756.8	76.3	24.6	74	se.			2		0			0	0		Andreas Rospini.
Hermannstadt	28.33	719.5	29.71	754.5	67.1	19.5	79	nw.			1		10			1.146	29.1	raining	Prof. A. Gottschling
Kremsmunster, Obs'y	28.51	724.1	29.77	756.2	77.9	25.5	55	ne.			1		0			0	0.	clear	The Staff.
Lemberg	28.96	735.6	29.91	759.6	73.4	23.0	74	ne.			1		7			0.177	4.5		Dr. T. Stanecki.
Pola	29.73	755.2	29.84	757.9	79.3	26.3	56	wnw.			3		0			0	0		I. R. Hydrographic Office.
Szathmar	29.24	742.7	29.68	753.9	74.1	23.4	75	n.			1		6			.0	0		Joseph Midlinszky, S. J.
Szegedin	29.46	748.2	29.72	754.9	78.4	25.8	49	n.			2		6			0	0		Karl Stancel.
Trieste	29.80	756.8	29.90	759.4	78.1	25.6	56	sw.			1		0			0	0		Royal Academy.
Vienna	29.15	740.3	29.82	757.5	79.3	26.3	40	n.			1		0			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.17	740.9	29.27	743.4	61.0	16.1	85	sse.	18	8.0			7			0.090	2.3	misty	W. Boswell
Armagh, Observatory	28.95	735.3	29.18	741.2	64.0	17.8	70	s.	13	5.8			8					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.30	744.2	65.0	18.3	61	sw.	20	8.9			2					blue sky	John Hartnup.
Bolton, Sharples	28.83	732.3	29.35	745.5	60.8	16.0	90	sw.	12	5.4			10					overcast	Thomas Mackereth, Jun.
Bradford, Yorkshire	28.92	734.6	29.32	744.7	60.3	15.7	92	se.			2		10			0.34	8.6	raining	McLandsborough & Pres
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	83.0	28.3	76	ne.			2		2					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			29.42	747.3	69.6	20.9	79	s.			2.0		8			blank	blank	overcast	John McLaren.
Chatham, School M. E.	29.37	746.0	29.50	749.3	60.8	16.0	76	s.			2		10					raining	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.21	741.9	29.43	747.5	62.9	17.2	72	sw.			4		9					d. clouds.	The Staff.
Fort Napier, Natal	27.82	706.6	30.04	763.0	73.0	22.8	29	ne.			5		2					blue sky	Pvt. Lane, A. H.C
Free Town, Sierra Leone	29.61	752.1	29.84	757.9	87.0	30.6	72	w.			1		6					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.84	757.9	29.89	759.2	77.6	25.3	77	w.			4		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.00	736.6	29.21	741.9	63.9	17.7	80	sw.			3		7					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.32	744.7	29.49	749.0	62.7	17.1	91	ssw.			1		10					raining	The Staff.
Guernsey	29.27	743.4	29.56	750.8	63.0	17.2	88	wsw.			1		9					overcast	A. Collenette, F. M. S.
Kew, Observatory	29.44	747.8	29.48	748.8	68.3	20.2	77	s.	18	8.0			9					threatening.	The Staff.
Leicester, Museum	29.12	739.6	29.36	745.7	67.2	19.6	71	sw.			4		8					d clouds	J. C. Smith.
Malta, Mediterranean	29.79	756.7	29.87	758.7	76.8	24.9	70	ne.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.16	766.1	30.21	767.3	86.0	30.0	70	se.			2		7			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.87	733.3	29.38	746.2	60.4	15.8	95	sw.			3		8					raining.	Warren Middleton.
Oxford, Radcliffe Obs'y	29.19	741.4	29.42	747.3	65.2	18.4	86	sse.			4		10					squally	The Staff.
Plymouth	29.37	746.0	29.44	747.8	63.2	17.3	83	ssw.			2		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.26	743.2	58.1	14.5	93						10					raining	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.63	752.6	29.09	754.1	84.8	29.3	61	ssw.			1		2					d. clouds	W. H. Lyne.
Sheffield	29.12	739.6	29.38	746.2	69.0	20.6	77	sw.			1		10			0.10	2.5	raining	W. F. Cooper.
Stiloth Rectory	29.22	742.2	29.25	742.9	58.9	14.9	88	sw.			3		10			0.100	2.5	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory					59.9	15.5	90	w.	16	7.2			10					overcast	Rev. S. J. Perry.
Stratfield Turgiss	29.26	743.2	29.47	748.5	65.9	18.8	86	sw.			4		4					squally	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.44	747.8	29.45	748.0	67	19.4	64	sw.			6		0					d. clouds	W. Newcombe.
Valencia, Observatory	29.25	742.9	29.27	743.4	60.9	16.1	81	sw.	26	11.6			6			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.02	762.5	30.06	763.5	67	19.4	72	w.	5	2.2		5 c	0	w.		0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.03	762.7	30.09	764.3	64	17.8	83	sw.	3	1.3		0	0			0.07	1.8	clear	G. A. Blair.
Father Point, Quebec*	30.03	762.7	30.05	763.3	58	14.4	81	sw.	10	4.5			10 s		w.	inap.	inap.	cloudy	J. McWilliams
Fort Garry, Manitoba*	28.89	733.8	29.68	753.9	59	15.0	93	s.	23	10.3		0	5 k		sw.	0	0	hazy	James Stewart.
Halifax, N. S*	29.99	761.7	30.11	764.8	61	16.1	93	w.	2	0.9			10 ks		w.	0	0	cloudy	A. Allison.
Kingston, Ontario*	29.87	758.7	30.12	765.0	62	16.7	87	calm	0	0		0	0			0	0	light haze	A. P. Knight, M. A.
Montreal, Quebec*	29.97	761.2	30.17	766.3	67	19.4	63	w.	12	5.4		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.54	750.3	30.23	767.8	61	16.1	78	calm	0	0		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.56	750.8	30.24	768.1	58	14.4	94	calm	0	0		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.58	751.3	30.22	767.6	55	12.8	100	n.	1	0.4		2 ck	hz.	w.		0	0	hazy	M. Payne.
Quebec, Quebec*	29.84	757.9	30.15	765.8	58	14.4	96	w.			1		fg.			0	0	hazy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.72	754.9	30.17	766.3	58	14.4	75	nw.	2	0.9		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.50	749.3	30.23	767.8	48	8.9	93	nw.	3	1.3		hz	0			0	0	hazy	
St. Andrews, N. B	30.09	764.3	30.14	765.5	64	17.8	80	nnw.	4	1.8		0	0			0	0	clear	
Sydney, C. B*	29.99	761.7	30.05	763.3	69	20.6	68	sw.	8	3.6		4 cs	0	w.		0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.88	758.9	30.26	768.6	60	15.6	67	calm	0	0		2 c	0			0	c	clear	Magnetic Observatory.
Yarmouth, N. S*	30.06	763.5	30.12	765.0	55	12.8	100	calm	0	0		3 k	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
Mount Forest	28.86	733.0	30.32	770.1	51.0	10.6	19	wnw.			2	5 c	5 c			0	0		Wm. Wylie.
St. Johns, Newfoundland	29.94?	760.5?	30.19?	766.8?	63	17.2	78	sw.	2	0.0		0	0			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.14	765.5	30.17	766.3	65.4	18.6	86	ne.	9.3	4.2		8 c	0			0	0	fine	John Duthie.
Cape Town, C. G. H. Obs'y	29.96	761.0	30.00	762.0	77.0	25.0	36	nne.	20	8.9		8	6			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.66	753.4	29.69	754.0	81.0	27.2	83	se.	19.7	8.8			0			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.76	755.8	29.80	757.0	73.8	23.2	58	se.	11	5			3						Oversergent Fischer.
Fanöe	29.67	753.7	29.69	754.2	73.0	22.8	69	sse.			4		9						Overloerer Lauridsen
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.67	753.7	29.72	754.8	49.6	9.8	68	calm			0		0						A. O. Thorlacius.
Thorshavn	29.41	747.1	29.45	748.0	51.1	10.6	95	ne.	18	8			10					raining	Overloerer Bergh.
Vestervig	29.61	752.0	29.70	754.3	68.9	20.5	79	se.			2		4						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.22	742.1	29.85	758.1	65.1	18.4	82	calm			0		kn		n.	0	0		M. Labroue, Director.
Alençon, Normal School	29.07	738.4	29.62	752.4	74.5	23.6	67	sw.			3		ks		ne.	0	0		M. Nicot, Director.
Arras, Engineer School	29.24	742.7	29.48	748.8	80.6	27.0	48	?			3		k			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.78	756.4	29.86	758.4	84.2	29	52	n.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.10	739.2	29.62	752.3	85.1	29.5	34	s.			2		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.29	743.9	29.54	750.2	80.4	26.9	50	ssw.			2		8		s.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.81	731.7	29.76	755.9	83.8	28.8	57	ssw.			1		1		s.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.39	746.4	29.63	752.7	81.3	27.4	42	w.			2		5			0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.08	738.5	29.59	751.5	85.1	29.5	38	ssw.			4		k		ssw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.35	745.4	29.59	751.6	67.6	19.8	77	wsw.			2		5		wsw.	0.677	17.2		M. de Kermarec, Dir.
Caen, Normal School	29.54	750.3	29.61	752.1	69.8	21	71	se.			3		8		se.	0.193	4.9	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.26	743.3	29.56	750.9	87.8	31.0	37	s.			2		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.13	739.9	29.61	752.0	85.3	29.6	67	sse.			3					0	0		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.34	719.9	29.59	751.6	89.6	32.0	32	sse.			2	0	1 k			0	0	clear	M. Allnard, Director.
Cluny, Normal School	28.88	733.5	29.70	754.4	82.9	28.3	35	s.			8		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.83	732.3	29.66	753.4	82.9	28.3	42	se.			1	10 c		se.	se.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.45	697.3	29.85	758.1	82.4	28	77	ne.			2		0			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.77	730.8	29.83	757.7	82.4	28.0	39	sw.			1		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.02	737.2	29.75	755.0	79.2	26.2	56	nw.			3		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.15	714.9	29.64	752.8	78.8	26	44	sw.			1		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	29.26	743.3	29.53	750.0	68.4	20.2	71	s.			2		5		s.	0.08	2.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.25	743.0	29.79	756.6	82.4	28.0	51	e.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.49	749.1	29.60	751.7	67.1	19.5	72	w			1		8		s.	0.118	3.0	¾ covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	28.69	728.6	29.69	754.0	81.0	27.2	40	s.			3		0			0	0	clear	M. André, Director.
Mans, Normal School	29.28	743.7	29.57	751.1	76.1	24.5	66	w.			4		5		w.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.61	752.2	29.87	758.8	75.2	24.0	65	s.			2		0			0	0		M. Stephan, Director.
Montlouis	24.74	628.4	29.58	751.4	75.2	24.0	31	s.	9.4	4.2			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.72	754.8	29.84	758.0	75.9	24.4	67	se.			2		2			0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	28.93	734.9	29.67	753.5	84.9	29.4	89	sse.			3			[n		0	0		M. Hasse, Director
Nantes. Observatory	29.49	749.0	29.65	753.1	70.7	21.5	72	wsw.			2–3		10 kn;		ssw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.63	752.5	29.73	755 2	80.8	27.1	59	ne.	7.4	3.3			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.24	539.4			51.6	10.9		sw.			2–3		10		sw.	0.150	3.8	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.81	731.7	29.82	757.4	79.2	26.2	48	s.			1		0			0	0	clear	M. Tailleu.
Puy de Dôme Obs'y, Summit	25.03	635.7			64.4	18.0	53	sw.			4		1			0	0	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	29.62	752 4	29.65	753.2	78.8	26.0	100	wnw.			2		8		s.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.42	747.3	29.63	752.6	70.2	21.2	65	wsw.			1		8		nne.	0	0	very cloudy	M. Mouillot, Director.
Rodez, Normal School	27.63	701.8	29.68	753.9	72.9	22.7	63	e.			4		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	29.46	748.8	29.53	750.0	77.0	25	69	sw.			1		10		ssw.	0	0	covered	M. Brotier.
Saint Maur, Observatory	29.40	746.7	29.56	750.9	84.6	29.2	42	sw.			3		1	sw.		0	0		M. Renou, Director.
Toulouse, Observatory	29.05	737.8	29.77	756.1	83.5	28.6	50	sse.			4		0			0	0	clear	M. Baillaud, Director.
Tours	29.43	747.4	29.60	751.9	73.4	23.0	73	sw.			1	10 c		s.	s.	0	0	stormy	M. de Tastes.
Versailles, Observatory	29.10	739.1	29.59	751.6	79.9	26.6	75	w.			3					0.016	0.4		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.28	743.6	29.57	751.0	82.4	28.0	45	s.			3		4	sw.		0	0		M. Marié Davy, Director
GERMAN.																			
Bamberg	28.99	736.3	29.84	757.8	82.4	28.0	50	se.			1					0	0		Prof. Dr. Hoh.
Berlin	29.73	755.2	29.90	759.5	82.4	28.0	32	s.			2		1			0	0		Prof. Dr. Arndt.
Breslau	29.38	746.2	29.91	759.6	81.3	27.4	35	se.			2		2			0	0		Royal University Obs'y.
Carlsruhe	29.28	743.8	29.69	754.2	83.5	28.6	47	e.			1		0			0	0		Albert Senz.
Cassel	28.99	736.4	29.71	754.5	88.5	31.4	37	se.			2		0			0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.34	745.2	29.68	753.9	78.3	25.7	49	ssw.			1		0			0	0		Physical Society.
Friedrichshafen	28.36	720.4	29.73	755.2	72.0	22.2	71	sw.			1		0			0	0		Wilhelm, Chief Tel.
Hamburg	29.64	752 9	29.74	755.3	78.8	26.0	49	s.			4		3	sw.		0	0		E. Preller.
Kiel	29.73	755.1	29.74	755.5	75.0	23.9	65	s.			1		8			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.39	746.5	29.79	756.7	83.7	28.7	38	sse.			3		2			0	0		H. Leppig, Asst.
Magdeburg	29.58	751.3	29.76	755.8	85.8	29.9	41	s.			1	2 cs	0	nw.		0	0		Dr. Assmann.
Memel	29.96	761.0	30.01	762.2	72.3	22.4	43	nw.			2	0	1 k						Issermann.
Munich	28.03	712.0	29.88	759.0	64.0	17.8	41	e.			3		0			0	0		Dr. C. Lang.
Neufahrwasser	29.92	759.9	29.93	760 3	72.3	22.4	57	e.			1		1			0	0		A. Lothes.
Neustadt, Palatinate	29.18	741.2	29.70	754.4	80.2	26.8	56	calm			0					0	0		Dicknether.
Stuttgart	28.79	731.3	29.61	752.2	86.0	30.0	38	sw.			3		0			0	0		Prof. Dr. Schoder.
Wustrow	29.78	756.4	29.80	757.0	81.1	27.3	57	se.			2	0	5 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.37	746.1	29.75	755.6	83.5	28.6		sw.			2.5		4			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29 47	748.4	29.52	749.7	83.0	28.3	85	ssw.	14.0	6.3			5			0.81	20.6	d. clouds	
Deesa	29.03	737.4	29.49	749.1	87.8	31.0	59	ssw.					4	s.		0	0	hazy	
Bombay	29.65	753.0	29.68	754.0	77.9	25.5	92	wsw.	15.0	6.7			10		wnw.	0.40	10.2	overcast	
Poona, Yarrowda	27.83	706.9	29.69	754.2	74.3	23.5	79	wsw.	15.0	6.7			10		w.	0.71	18.0	drizzling	
Trichinopoly	29.52	749.7	29.79	756.7	87.2	30.7	42	w	6.0	2.7			10			0	0	overcast	
Bellary	28.22	716.9	29.68	753.9	82.0	27.8	57	w.	19.9	8.9			10	wsw.		0	0	gloomy	
Belgaum	27.20	691.0	29.77	756.0	68.8	20.4	90	wsw.	12.0	5.4			10		sw.	3.16	80.3	showery	
Lahore	28.70	728.9	29.42	747.2	90.1	32.3	66	calm	1.5	0.7			10			0	0	threatening	
Roorkee	28.54	724.8	29.40	746.8	92.4	33.6	68	calm	0.7	0.3			5			0	0		
Agra	28.87	733 3	29.43	747.4	82.8	28.2	85	nw.	3.3	1.5			8		w.	0.50	12.7	d. clouds	
Nagpur	28.44	722.2	29.48	748 7	73.7	23.2	95	w.	14.1	6.3			10		w.	3.27	83.1	overcast	
Jubbulpore	28.06	712.6	29.39	746.5	80.0	26.7	91	ne.	3.1	1.4			10			2.46	62.5	raining	
Lucknow	29.06	738.0	29.42	747.3	90.1	32.3	62	ene.	3.0	1.3			6	e.		0.20	5.1	d. clouds	
Allahabad	29.07	738.4	29.38	746.1	83.7	28.7	90	e.	4.0	1.5			10		e.	0.05	16.5	overcast	
Patna	29.27	743.4	29.44	747.7	84.0	29.2	81	e.	9.5	4.2			6	e.	e.	0.16	4.1	d. clouds	
Hazaribagh	27.43	696.7	29.41	747.0	78.6	25.9	83	sse.	9.4	4.2			8	se.	nw.	0.13	3.3	drizzling	
Cuttack	29.39	746.6	29.48	748.6	83.0	28.3	83	ssw.	2.8	1.2			8			0	0	d. clouds	
Calcutta, Alipore	29.44	747.9	29.46	748.4	81.7	27.6	83	s.	3.0	1.3			10	s.		1.04	26.4	overcast	
Dhubri	29.40	746.8	29.52	749.7	82.5	28.1	83	ssw.	5.5	2.5			7		se.	0.03	0.8	d. clouds	
Chittagong	29.51	749.6	29.60	751.9	78.2	25.7	92	ese.	9.4	4.2			10			0.02	0.5	drizzling	
Sibsagar	29.18	741.2	29.51	749.5	87.2	30.7	78	sw.	1.5	0.7			7	w.	sw.	0.03	0.8	d. clouds	
Jeypore	28 04	712.3	29.45	748.0	87.4	30.8	71	nw.	2.6	1.2			9		nw.	0.01	0.3	d. clouds	
Zanzibar, Africa	30.08	764.0			80.2	26.8	55	s.	10.0	4.5			7		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.48	748.8	29.87	758.7	81.1	27.3	58	s.	0.7	0.3			2			0	0		Prof. Giovanni Clodig.
Milan	29.37	746.0	29.87	758.6	82.0	27.8	36	sw.	4.9	2.2			0			0	0		Prof. Schiaparelli.
Padua	29.74	755.5	29.85	758.2	82.4	28.0	39	nnw.	3.1	1.4			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.98	736.1	29.85	758.1	81.0	27.2	39	e.	2.5	1.1			0			0	0		Prof. P. F. Denza.
Genoa	29.72	754.9	29.91	759.6	76.6	24.8	03	sw.	2.5	1.1			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.00	711.3	29.84	757.8	77.4	25.2	39	w.			4		0			0	0		Prof. D. C. Bruno.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
ITALIAN.—Continued.																			
Pesaro	29.81	757.1	29.85	758.3	75.9	24.4	56	e.	10.5	4.7			0			0	0		Prof. Luigi Guidi.
Florence	29.61	752.0	29.85	758.2	83.8	28.8	37	w.			2		0			0	0		Prof. Costantino Pitter
Leghorn	29.75	755.6	29.83	757.7	76.6	24.8	64	w.	0.7	0.3			0			0	0		Prof. P. Monte.
Rome	29.69	754.0	29.85	758.3	86.7	30.4	36	sw.	16.8	7.5			0			0	0		Prof. P. S. Ferrari.
Lecce	29.58	751.4	29.82	757.5	77.0	25.0	44	nnw.	15.4	6.9			2			0	0		Prof. C. de Giorgi.
Cosenza	28.98	736.2	29.84	757.8	82.8	28.2	72	wsw.	3.1	1.4			1		sw.	0	0		Prof. D. Conti.
Cagliari	29.68	753.8	29.86	758.5	78.4	25.8	57	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.67	753.6	29.91	759.7	79.5	26.4	37	ene.	8.1	3.6			0			0	0		Prof. G. Ciaccia-tore.
Syracuse	29.82	757.4	29.86	758.5	81.7	27.6	49	s.	6.3	2.8			7		ne.	0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.33	745.0	29.83	757.7	83.5	28.6	43	w.	1.8	0.8			1			0	0		Prof. T. Brioschi.
Stelvio	22.29	566.1			55.2	12.9	46	w.			2		0			0	0	clear	Prof. P. F. Denza.
Valdobbia	22.31	566.6			55.2	12.9	74	e.			2		5			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.97	761.2	29.98	761.5	63.0	17.2	89	e.	16.8	7.5			3			0	0	clear	
Hiroshima, I. M. Obs'y					77.3	25.2	80	wsw.	7.0	3.1		0	3 ck			0	0	clear	I. Sogawa.
Kanazawa																			S. Eudo.
Kioto	29.75	755.6	29.92	759.9	76.0	24.4	93	wnw.	0.8	0.4		ck	9 s			0.111	2.8	cloudy	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.72	754.7	29.91	759.7	76.1	24.5	84	calm	0	0		0	2 s			0	0	clear	S. Takehayashi.
Nemuro	29.90	759.4	29.96	761.0	60.5	15.8	96	calm	0	0		0	9			0	0	cloudy	
Niigata	29.89	759.2	29.92	759.9	69.9	21.0	94	se.	2.1	0.9			10 n		w.	0.440	11.2	light rain	M. Morita.
Nobiru	29.97	761.1	29.98	761.6	66.5	19.2	89	s.	6.2	2.8			10 s			0.130	3.3	covered	H. Midzushina.
Osaka																			
Supporo					64.9	18.3	79	s.	6.6	2.9			1			0	0	clear	
Tokei Obs'y, Yeddo	29.89	759.2	29.96	761.0	71.9	22.2	87	s.	9.7	4.3			10 n			0.110	2.8	light rain	The Staff.
Wakayama	29.89	759.2	29.94	760.5	76.4	24.7	82	sw.	5.7	2.5		1	1			0	0	fair	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	30.08	764.0	30.27	768.8	68.1	20.1	76	e.	8.5	3.8			9k;ks;n		ese.	0.01	0.3	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.75	603.3	29.97	761.3	58.1	14.5	95	n.				0	0			0.153	3.9	clear	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.03	762.7	59.2	15.1	85	n.			1	2 c	0	sw.		0	0	foggy	Prof. M. Leal.
Mazatlan	29.75	755.7	30.01	762.2	78.0	25.6	86	n.	1.6	0.8		0	1 k			0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.18	588.7	30.23	767.9	53.2	11.8	85	calm	0	0		0	0			0.071	1.8	fine	The Staff.
Morelia	24.24	615.7	30.31	769.8	57.6	14.2	95	s.			3	2	4	sse.	sse.	0.138	3.5	cloudy	M. Tena, M. D.
Orizaba	26.18	665.0	30.17	766.2	59.0	15.0	84	e.	0.9	0.4		0	7		e.	0	0	cloudy	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.03	610.4	30.02	762.6	59.9	15.5	87	calm			0	1 c	0			inap.	inap.	clear	M. V. de Leon, M. E
Puebla, Catholic Institute	23.49	596.5	30.32?	760.1?	48.2	9.0	78	ne.	0.9	0.4		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.40?	616.9?	30.19	766.7	67.8	19.8	63	e.					10		e.	0	0	covered	G. Barroeta, M. D.
Zacatecas	22.67	575.8	30.29	769.4	59.0	15.0	80	se.	5.2	2.3		2 s	0			0.406	10.3	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.54	750.3	29.54	750.3	77.2	25.1		ese.			3					0.004	0.1		
Groningen	29.58	751.3	29.63	752.7	76.8	24.9		s.			2					0	0		
Helder	29.59	751.5	29.59	751.5	72.5	22.5		sse.			1					0.213	5.4		
Helleyoetsluis	29.54	750.4	29.54	750.4	77.4	25.2	63	e.			1					0	0		
Utrecht	29.54	750.4	29.59	751.6	77.4	25.2	64	sse.			2		2			0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.57	751.0	29.63	752.6	67.3	19.6	60	sse.	9	4			9			1.047	26.6		
Brono	29.67	753.5	29.71	754.5	60.1	15.6	64	n.	4	2			2			0	0		
Christiania	29.60	751.8	29.74	755.4	68.7	20.4	62	ssw.	13	6			8			0.248	6.3		
Gjesvær	29.49	749.1	29.52	749.7	45.0	7.2		w.			7-8		10					foggy	
Lodingen	29.65	753.1	29.70	754.3	56.1	13.4	67	sw.			4		2			0	0		
PORTUGUESE.																			
Angra, Azores					69.4	20.8	72	nne.	11.2	5.0			3			0	0		Dr. J. A. Sampaio.
Campo Major	28.83	732.3	29.79	756.7	74.8	23.8	53	ssw.	11.2	5.0			10			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.98	761.5	30.06	763.6	75.2	24.0	66	se.	3.1	1.4			1			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.53	750.1	29.88	759.0	68.0	20.0	72	w.	15.4	6.9			8			0.016	0.4		The Staff.
Ponta Delgada, Azores	30.15	765.9	30.22	767.7	72.0	22.2	54	n.	13.6	6.1			4			0	0		
Saint Paul de Loando	29.86	758.4	30.06	763.6	68.9	20.5	85	w.	0.7	0.3			10			0	0		
Serra da Estrella	25.10	637.5	29.76	756.0	51.3	10.7	94	w.	19.2	8.6			9			0.472	12.0	foggy	
RUSSIAN.																			
Akmolinski	28.78	731.0	29.80	757.0	76.6	24.8	26	sw.	7	3		0	7 kn			0	0		Major K. Lasarew.
Archangel	29.82	757.4	29.84	757.9	73.6	23.1	53	w.	9	4		2 cs	0			0	0		Capt. Sselliwerstow.
Astrakhan	29.98	761.5	29.90	759.4	80.1	26.7	48	ese.	18	8			10 s			0	0	light clouds	Capt. Wisganow.
Barnaul	29.39	746.6	29.88	758.9	64.6	18.1	58	ssw.	9	4			10			0	0		Meteorological Obs'y.
Dorpat	29.79	756.7	30.02	762.6	77.7	25.4	48	se.	2	1		0	3 k			0	0		Observatory.
Ekaterinburg	29.04	737.5	29.95	760.6	80.1	26.7	37	n.	4	2		0	3 k;ks			0	0		Meteorological Obs'y.
Irkutsk	28.45	722.7	30.10	764.6	48.2	9.0	95	nw.	7	3			10 n			0.693	17.6		
Kasan	29.74	755.3	29.98	761.6	86.9	30.5	47	wsw.	2	1		0	7 k			0	0		Observatory.
Kertch	29.62	752.3	29.64	752.8	85.1	29.5	74	se.	18	8		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.11	739.3	29.70	754.3	83.7	28.7	32	ssw.	27	12		c;ok;ns	4 k			0.008	0.2	light clouds.	Observatory.
Lugan	29.53	750.0	29.72	754.8	92.8	33.8	25	ese.	18	8			2			0	0		Meteorological Obs'y
Moscow	29.45	747.9	29.89	759.1	80.6	27.0	58	sw.	4	2			1 k						Meteorological Obs'y.
Nikolaiev	29.57	751.1	29.64	752.9	89.1	31.7	59	sse.	9	4		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.48	748.9	29.63	752.5	74.7	23.7	97	calm	0	0			9 n			0.228	5.8	raining	Physical Observatory
St. Petersburg	30.00	762.1	30.02	762.5	72.5	22.5	44	nw.	2	1		1 ck	0			0	0		Central Physical Obs'y
Semipalatinsk	29.29	744.0	29.92	759.9	75.9	24.4	29	calm	0	0			8			0	0	light clouds	Major Lasarew.
Tashkend, Laboratory	28.19	716.1	29.05	753.2	86.0	30.0	47	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.36	720.4	29.67	753.6	94.8	34.9	27	s.	4	2		0	0			0	0		Physical Observatory
Vladivostock	29.71	754.6	29.78	756.3	63.0	17.2	81	calm	0	0			10 n						
Warsaw	29.45	748.1	29.85	758.2	81.0	27.2	44	e.	7	3		c	8 ks						Astronomical Obs'y
Wilna	29.53	750.1	29.93	760.1	81.1	27.3	54	se.	2	1			5			0	0	light clouds	Berg, Assistant.
Yeniseisk	29.69	754.0	29.97	761.2	50.7	13.7	85	sw.	4	2			9			0.303	7.7	raining	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.66	753.4	29.76	755.9	77.0	25.	66	se.	3.6	1.6			0						Antonio Rave, Director.
Bilbao, Met. Obs'y	29.65	753.0	29.71	754.5	79.7	26.5	51	nw.	3.8	1.7		5	3	sw.		0	0	almost cov.	Prof. Manuel de Naveran
Burgos, Met. Obs'y	26.86	682.3	29.69	754.2	71.6	22.0	48	sw.	9.8	4.4			3			0	0	clouds	Domingo Martin.
Madrid, Royal Obs'y	27.59	700.8	29.70	754.4	79.3	26.3	39	sw.	19.9	8.9		0	4			0	0	cloudy	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director.
Santiago, Met. Obs'y	28.83	732.2	29.69	754.2	66.9	19.4	75	wsw.	11.2	5.0			7			1.035	26.3	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.					80.2	26.8	82	nw.	7.7	3.4		5 e	4 kn		wsw.	0.169	4.3	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.69	754.0	29.74	755.4	71.4	21.9	80	w.	9.1	4.1		0	8		w.	0	0		P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.85	758.1	29.95	760.6	84.0	28.9	89	se.	2.2	1.0		4 k	4 k	se.	se.	0.039	1.0	cloudy	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.03	762.8	30.12	765.1	82.0	27.8	85	nnw.	3.4	1.5		6 cs	4 ks	e.	n.	0	0	overcast	Manuel Maese.
Tuguegarao, Philippine Id's	29.57	751.1	29.70	754.4															José L. Yrastorza.
SWEDISH																			
Haparanda	29.72	754.9	29.76	755.9	55.4	13.0	85	s.			2		8			0	0		
Umea	29.70	754.4	29.75	755.7	61.9	16.6	85	sw.			4		8			0	0		
Hernosand	29.70	754.4	29.75	755.7	64.8	18.2	75	s.			4		5			0	0		
Stockholm	29.68	753.9	29.86	758.4	73.0	22.8	54	s.			4		1			0.004	0.1		
Wisby	29.82	757.5	29.88	759.0	75.9	24.4	41	sw.			6		3			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Sub-series.																			
Upsala	29.72	755.0	29.81	757.2	73.8	23.2	60	s.	13.4	6.0			9		sw.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.39	721.0	29.75	755.7	74.8	23.8	61	n.			2					0	0	clear	The Observatory
SCOTTISH.																			
Monach Lt			29.17	740.9	57	13.9	94	s.			3	5	5	s.		0.5	13.		J. Youngclause.
North Unst			29.96	761.0				se.			6		10			blank	blank		
TURKISH.																			
Constantinople			29.73	755.1	83.5	28.6	63	ese.	9	4.0			2		n.	0	0		The Observatory.
Valona			29.93	760.2	79.3	26.3		w.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.76	755.9	83.8	28.8	56	w.			2		10 s		e.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.12	765.0	30.20	767.1	70.5	21.4	65	n.	4	1.8		0	0			0.05	1.3	clear	J. O. Barnes.
Alpena, Michigan	29.55	750.6	30.19	766.8	58	14.4	75	w.	2	0.9		4 c	0	sw.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.05	636.3	29.79	756.7	57	13.9	45	ne.	3	1.3		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.33	694.2	30.06	763.5	54	12.2	86	sw.	7	3.1			10 k		nw.	0.04	1.0	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.02	737.1	30.17	766.3	67.0	19.4	66	ne.	6	2.7		0	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	30.13	765.3	30.14	765.5	70	21.1	90	ne.	2	0.9		7 ck	0	calm		c.02	0.5	fair	Jas. M. Watson.
Augusta, Georgia	29.98	761.5	30.17	766.3	71.0	21.7	76	nw.	5	2.2		0	0			0	0	clear	John Healy.
Baltimore, Maryland	30.16	766.1	30.22	767.6	71	21.7	66	n.	9	4.0		0	0			0	0	clear	Robert Seybolh.
Barnegat, New Jersey	30.11	764.8	30.13	765.3	68.0	20.0	81	w.	6	2.7		3 cs	4 s			0.12	3.0	fair	G. A. Hill.
Bennett, Fort, Dakota	28.08	713.2	29.62	752.3	62	16.7	90	nw.	17	7.6			10 s		nw.	0.75	19.0	threatening	A. Pritchard.
Benton, Fort, Montana	27.35	694.7	30.06	763.5	54	12.2	86	n.	5	2.2		0	9 s		n.	0.02	0.5	cloudy	G. W. Davis.
Behring Island, Behring Sea	30.08	764.0	30.10	764.5	46.5	8.1		sw.	7	3.1			10 s			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	27.98	710.7	29.70	754.4	61	16.1	90	nw.	8	3.6			10 n			0.28	7.1	light rain	Cyrus Cramer.
Block Island, Rhode Island	30.14	765.5	30.16	766.1	65.0	18.3	93	calm	0	0			fg.			0	0	dense fog	J. T. Elker.
Boise City, Idaho	27.21	691.1	29.93	760.2	60	15.6	67	n.	3	1.3		3 k	0	nw.		0	0	fair	B. E. Light.
Boston, Massachusetts	30.02	762.5	30.17	766.3	68.0	20.0	72	n.	5	2.2			10s; hz			0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.97	761.2	30.01	762.2	79.0	26.1	88	se.	5	2.2		2 c	4 s	calm	se.	0	0	fair	M. McCarty.
Buffalo, New York	29.50	749.3	30.23	767.8	61.8	16.6	77	sw.	1	0.4		0	0			0	0	clear	Wm. Finn.
Buford, Fort, Dakota	27.91	708.9	29.85	758.2	57	13.9	77	nw.	16	7.2			10 s		nw.	0	0	cloudy	A. H. Bell.
Burlington, Vermont	29.91	759.7	30.19	766.8	65.0	18.3	75	calm	0	0		0	0			inap.	inap.	clear	G. C. Schaeffer.
Cairo, Illinois	29.82	757.4	30.20	767.1	70.7	21.5	72	calm	0	0		0	0			0	0	clear	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.19	690.6	29.78	756.4	79	26.1	44	sw.			1	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.16	766.1	30.18	766.6	72	22.2	84	n.	10	4.5		7 k	0	w.		0.02	0.5	fair	A. K. Alderson.
Cape May, New Jersey	30.13	765.3	30.16	766.1	70.0	21.1	84	ne.	3	1.3		0	2 s			0.02	0.5	clear	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.11	764.8	30.13	765.3	80	26.7	79	w.	3	1.3		1 c	0			0.01	0.3	clear	F. W. Mixer.
Champaign, Illinois	29.34	745.2	30.13	765.3	62.8	17.1	70	se.	8	3.6		4 c	0	e.		0	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.07	763.8	30.12	765.0	77	25.0	82	ne.	7	3.1		0	0			0.93	23.6	clear	J. H. Smith.
Charlotte, N. Carolina	29.33	745.0	30.16	766.1	70.0	21.1	57	ne.	9	4.0		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.41	747.0	30.21	767.3	66.0	18.9	78	nw.	1	0.4		0	sk.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.09	611.9	29.78	756.4	46.1	7.8	74	n.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.46	748.3	30.15	765.8	64.1	17.8	65	s.	7	3.1		3 k	0	sw.		0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.12	765.0	30.14	765.5	70	21.1	90	n.	4	1.8		3 c	0	w.		0.10	2.5	clear	V. P. Temple.
Cincinnati, Ohio	29.58	751.3	30.22	767.6	65	18.3	78	n.	2	0.9		0	0			inap.	inap.	clear	J. F. Harrold.
Cleveland, Ohio	29.54	750.3	30.26	768.6	59.5	15.3	83	se.	4	1.8		0	0			0.04	1.0	clear	J. B. Newlin.
Coleman City, Texas	28.21	716.5	29.97	761.2	69	20.6	90	se.	8	3.6		6 c	0			0	0	fair	L. Dorman.
Columbus, Ohio	29.39	746.5	30.22	767.6	61	16.1	84	calm	0	0		0	fg			0	0	clear	D. Cuthbertson.
Concho, Texas	28.09	713.5	29.97	761.2	69	20.6	84	s.	8	3.6		2 c	0			0	0	clear	W. W. McConihe.
Custer, Fort, Montana	26.92	683.8	29.94	760.5	56	13.3	86	nw.	9	4.0		0	7 s		nw.	0.01	0.3	fair	V. Verge.
Davenport, Iowa	29.43	747.5	30.06	763.5	66	18.9	78	s.	16	7.2		7 cs	0	s.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	29.84	757.9	69	20.6	59	se.	4	1.8		5 cs	0			0	0	fair	J. Williams.
Dayton, Washington T'y	28.33	719.6	30.04	763.0	53.7	12.1	70	e.	6	2.7		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.38	644.6	29.80	756.9	51.0	10.6	80	sw.	4	1.8			10 n			0.48	12.2	light rain	G. W. Scott.
Decatur, Texas					74	23.3	47	se.	8	3.6		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.14	765.5	30.16	766.1	68	20.0	93	n.	7	3.1		3 c	hz.			0.05	1.3	clear	A. Schneider.
Denison, Texas	29.24	742.7	30.02	762.5	71.0	21.7	90	s.	6	2.7			10 s			0.11	2.8	cloudy	J. McGlone.
Denver, Colorado	24.74	628.4	29.75	755.6	55.0	12.8	57	n.	12	5.4		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.06	738.1	29.94	760.5	64	17.8	84	s.	9	4.0		10 cs	0	w.		0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.53	750.0	30.22	767.6	63.2	17.3	73	calm	0	0		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.22	691.4	29.72	754.9	67.0	19.4	78	s.	18	8.0		2 k	0	s.		0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.36	745.7	30.05	763.3	63.8	17.7	73	s.	6	2.7		6 k	4 s	sw.		0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.19	741.4	29.91	759.7	58	14.4	80	sw.	6	2.7			10 s		sw.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.23	742.4	30.02	762.5	73.0	22.8	90	se.	7	3.1			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.41	645.4	29.96	761.0	44	6.7	65	n.	6	2.7		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.06	763.5	30.12	765.0	64.0	17.8	73	nw.	6	2.7		6 c	3 s	sw.		0	0	cloudy	D. O. Murphy.
Elliott, Fort, Texas	27.14	689.3	29.78	756.4	64	17.8	78	se.	8	3.6		0	0			0.29	7.4	clear	W. J. Cundall.
El Paso, Texas	26.27	667.2	29.87	758.7	66	18.9	78	ne.	6	2.7		5 k	0			0.08	2.0	fair	J. F. Marshall.
Erie, Pennsylvania	29.53	750.0	30.24	768.1	62	16.7	87	s.	1	0.4		0	0			0.02	0.5	clear	Peter Wood.
Escanaba, Michigan	29.45	748.0	30.09	764.3	64	17.8	73	s.	8	3.6		3 k	3 s	sw.	s.	0	0	fair	C. Dill.
Fredericksburg, Texas	28.32	719.3	30.02	762.5	71	21.7	90	s.	2	0.9		5 k	0	sw.		0	0	fair	H. S. Miles.
Galveston, Texas	30.05	763.3	30.10	764.5	78	25.6	76	s.	18	8.0			10 ks		s.	0.18	4.6	threatening	E. O'C. MacInerney.
Grand Haven, Michigan	29.54	750.3	30.19	766.8	61.5	16.4	72	se.	5	2.2		5 cs	2 s	w.	w.	0	0	fair	W. A. Reid.
Grant, Fort, Arizona	25.27	641.8	29.84	757.9	67.9	19.9	55	calm	0	0		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.14	765.5	30.16	766.1	75.0	23.9	85	nw.	12	5.4		hz	3 k			0.04	1.0	clear	R. M. Crawford.
Helena, Montana	26.00	660.4	30.06	763.5	56	13.3	64	w.	4	1.8		10 k	0	w.		0.01	0.3	cloudy	S. Wheaton.
Henrietta, Texas	29.01	736.8	29.99	761.7	74.0	23.3	82	s.	8	3.6		3 c	0			0	0	fair	J. W. Byram.
Huron, Dakota	28.31	719.1	29.63	752.6	61.2	16.2	93	se.	15	6.7			10 ks		se.	1.03	26.2	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.40	746.7	30.17	766.3	68	20.0	63	calm	0	0		0	hz.			0	0	clear	O. Schutze
Indianola, Texas	30.04	763.0	30.07	763.8	77.4	25.2	97	se.	5	2.2		8 cs	1 ks	w.		0.84	21.3	cloudy	I. A. Reed.
Jacksboro, Texas	28.84	732.5	29 96	761.0	71	21.7	90	s.	8	3.6		3 cs	0	s.		0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.09	764.3	30.13	765.3	77	25.0	82	calm	0	0		0	0			0.07	1.8	clear	J. W. Smith.
Keogh, Fort, Montana	27.47	697.7	29.88	758.9	57	13.9	83	nw.	23	10.3		8 cs	0	nw.		0.17	4.3	cloudy	W. B. Stockman.
Keokuk, Iowa	29.41	747 0	30.04	763.0	65.0	18.3	75	se.	11	4.9		6 cs	0			0	0	fair	F. Z. Gosewisch
Key West, Florida	30.08	764.0	30.10	764.5	82.0	27.8	82	se.	4	1.8		4 c	2 k			0.18	4.6	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.14	765.5	30.16	766.1	69.0	20.6	90	n.	7	3.1		5 c; ck	0			0.02	0.5	fair	E. A. Beals.
Knoxville, Tennessee	29.20	741.7	30.20	767.1	64.9	18.3	79	ne.	5	2.2		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.26	743.2	30.01	762.2	66	18.9	68	se.	10	4.5			10 s			0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.12	663.4	29.86	758.4	65.0	18.3	84	calm	0	0		0	2 s			0.02	0.5	clear	N. D. Lane.
Leavenworth, Kansas	29.08	738.6	29.94	760.5	67	19.4	84	s.	12	5.4			10 n		w.	0.20	5.1	thund'r st'm	A. W. Browne.
Lewiston, Idaho	29.28	743.7	30.09	764.3	60.0	15.6	50	calm	0	0		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.83	757.7	30.14	765.5	68	20.0	84	e.	3	1.3		0	6 s			0	0	fair	W. U. Simons.
Los Angeles, California	29.61	752.1	30.00	762.0	59.2	15.1	93	se.	4	1.8			fg.			0	0	light fog	E. F. Kubel.
Louisville, Kentucky	29.62	752.3	30.17	766.3	66	18.9	78	calm	0	0		0	sk.			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.54	750.3	30.21	767.3	69.0	20.6	66	nw.	1	0.4		0	0			0	0	clear	W. R. Bushby.
Macon, Fort, North Carolina	30.14	765.5	30.15	765.8	73	22.8	90	n.	9	4.0		8 k	0			0.22	5.6	cloudy	F. P. Chaffee.
Madison, Wisconsin	29.10	739.1	30.08	764.0	62	16.7	84	se.	6	2.7		4 c	0	w.		0	0	fair	C. A. Shaw.
Maginnis, Fort, Montana	25.69	652.5			56	13.3	60	nw.	16	7.2		8 k	0	nw.		0	0	cloudy	H. W. Dodge.
McKavett, Fort, Texas	27.80	706.1	30.00	762.0	70	21.1	84	sw.	7	3.1		4 ck	0			0	0	fair	J. E. Thatcher.
Marquette, Michigan	29.35	745.5	30.06	763.5	62	16.7	72	sw.	16	7.2		5 k	0	sw.		0	0	fair	J. Gilligan.
Memphis, Tennessee	29.83	757.7	30.16	766.1	66	18.9	78	ne.	2	0.9		0	1 s			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.41	747.0	30.14	765.5	63	17.2	68	s.	10	4.5		0	sk.			0	0	clear	W. Line.

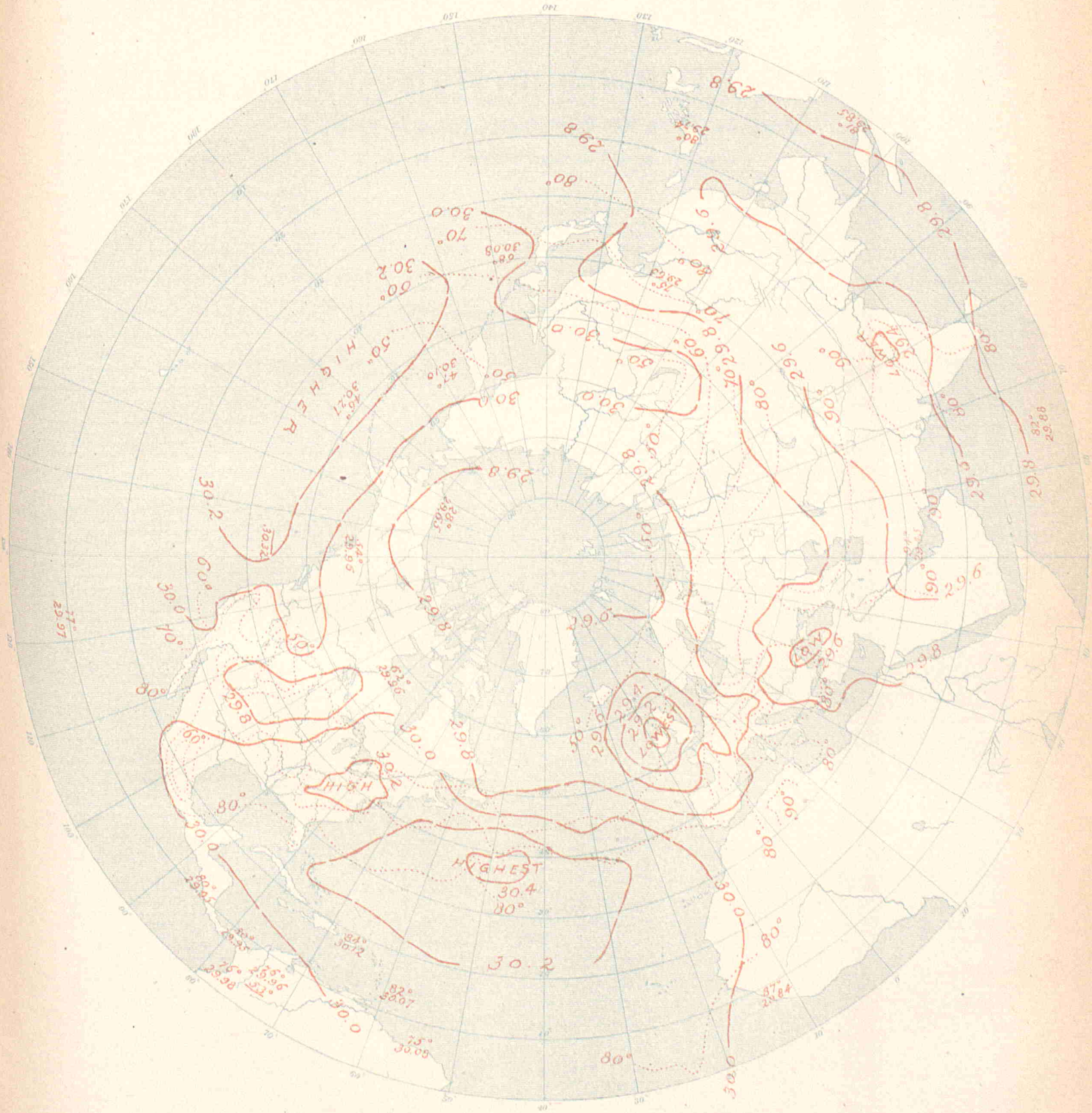
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.91	683.5	30.10	764.5	52	11.1	50	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.12	765 0	30.16	766.1	72.4	22.4	83	n.	3	1.3	.....	9 cs	0	w.	.....	0	0	cloudy	C. A. Read.
Montgomery, Alabama	29.94	760.5	30.16	766.1	70.0	21.1	71	nw.	3	1.3	.....	0	0	.....	.....	0.02	0.5	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.78	731.0	29.74	755.4	61	16.1	93	calm	0	0	.....	.....	10 n	.....	.....	0.04	1.0	light rain	H. Bessant.
Morgantown, W. Virginia	29.27	743.4	30.27	768.8	58.5	14.7	88	calm	0	0	.....	.....	fg.	.....	.....	0.06	1.5	dense fog	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.05	610.9	30.12	765.0	40.2	4.6	83	n.	22	9.8	.....	2 k	0	n.	.....	0.29	7.4	clear	J. G. Lindsley
Nashville, Tennessee	29.66	753.4	30.18	766.6	63.0	17.2	78	n.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.06	763.5	30.17	766.3	66.5	19.2	80	n.	4	1.8	.....	8 c	hz	sw.	.....	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.13	765.3	30.18	766.6	70	21.1	79	w.	2	0.9	.....	6 k	4 s	w.	w.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.08	764.0	30.13	765.3	79.2	26.2	77	nw.	1	0.4	.....	2 c	sk.	nw.	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	30.12	765.0	30.17	766.3	68.0	20.0	90	sw.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	W. McGillivray.
New York, New York	30.01	762.2	30.18	766.6	70	21.1	68	n.	11	4.9	.....	3 cs	4 s	nw.	.....	0	0	fair	J. B. Merrill.
Norfolk, Virginia	30.13	765.3	30.16	766.1	75	23.9	82	n.	4	1.8	.....	0	0	.....	.....	0.05	1.3	clear	H. L. Kemp.
North Platte, Nebraska	26.86	682.2	29.66	753.4	67.1	19.5	70	w.	.....	.....	6	0	2 s	.....	sw.	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.01	762.2	30.05	763.3	50.0	10.0	86	calm	0	0	.....	.....	sk.	.....	calm	0	0	dense smoke	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.63	752.6	29.65	753.1	28.0	— 2.2	100	nnw	12	5.4	.....	.....	fg.	.....	.....	0.32	8.1	dense fog	P. H. Ray.
Omaha, Nebraska	28.72	729.5	29.85	758.2	66.8	19.3	90	nw.	9	4.0	.....	.....	10 n	.....	nw.	0.92	23.4	thund'r st'm	A. Pollak.
Oswego, New York	29.88	758.9	30.20	767.1	66.0	18.9	75	s.	2	0.9	.....	0	1 k	.....	w.	0	0	clear	S. W. Beall.
Palestine, Texas	29.56	750.8	30.10	764.5	71.0	21.7	90	se.	3	1.3	.....	0	4 k	.....	s.	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.11	764.8	30.14	765.5	74.2	23.4	76	n.	5	2.2	.....	3 c	0	w.	.....	0	0	clear	M. McGauran.
Philadelphia, Pa.	30.08	764.0	30.18	766.6	70.5	21.4	71	nw.	5	2.2	.....	0	hz.	.....	.....	0.01	0.3	clear	T. F. Townsend.
Pike's Peak, Colorado	17.92	455.2	29.70	754.4	32	0.0	71	nw.	9	4.0	.....	0	2 s	.....	w.	inap.	inap.	clear	L. M. Dey.
Ploche, Nevada	24 08	611.6	29.81	757.2	61.2	16.3	29	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	O. N. Kitchel.
Pittsburg, Pennsylvania	29.46	748.3	30.25	768.3	58.6	14.8	87	nw.	2	0.9	.....	.....	10 s	.....	nw.	0.36	9.1	cloudy	J. H. Bryce.
Poplar River, Montana	27.80	706.1	.....	.....	.....	.....	.....	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.14	765.5	30.14	765.5	78.0	25.6	85	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	M. Hermann.
Port Huron, Michigan	29.56	750.8	30.22	767.6	59.5	15.3	71	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	30.11	764.8	30.16	766.1	69.5	20.8	66	n.	5	2.2	.....	6 cs;c	0	n	.....	0	0	fair	W. W. Eichelberger.
Portland, Oregon	29.94	760.5	30.02	762.5	56.0	13.3	80	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.82	630.4	29.81	757.2	60	15.6	72	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.12	765.0	30.15	765.8	67.0	19.4	84	n.	4	1.8	.....	.....	10 s	.....	nw.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.11	764.8	30.12	765.0	80	26.7	80	ne.	3	1.3	.....	3 c	1 k	calm	calm	0.08	2.0	fair	W. J. Evans.
Red Bluff, California	29.48	748.8	29.84	757.9	72.4	22.4	43	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.82	757.4	30.05	763.3	78	25.6	88	se.	6	2.7	.....	.....	10 s	.....	se.	0.86	21.8	cloudy	P. M. Wilson.
Rochester, New York	29.57	751.1	30.22	767.6	60	15.6	86	w.	5	2.2	.....	0	sk.	.....	.....	0	0	clear	E. W McGann
Roseburg, Oregon	29.42	747.3	29.96	761.0	51.5	10.8	75	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.76	755.9	29.83	757.7	61.2	16.2	78	se.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.56	750.8	30.14	765.5	64.0	17.8	90	s.	5	2.2	.....	7 c;cs	0	w.	.....	0	0	fair	J. H. Webber.
St. Paul, Minnesota	29.01	736.8	29.85	758.2	63	17.2	78	se.	14	6.3	.....	.....	10 s	.....	s.	0	0	cloudy	P. F. Lyons
St. Vincent, Minnesota	28.86	733.0	29.70	754.4	57	13.9	93	se.	11	4.9	.....	3 cs	6 s	.....	.....	0.06	1.5	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.66	651.8	29.84	757.9	62.2	16.8	30	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.36	745.7	30.04	763.0	74.5	23.6	90	se.	2	0.9	.....	.....	10 s	.....	s.	0.42	10.7	cloudy	T. J. Kenan.
San Diego, California	29.90	759.4	29.97	761.2	62.8	17.1	84	n.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.56	750.8	30.22	767.6	63.8	17.7	78	s.	4	1.8	.....	2 k	0	.....	.....	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.13	765.3	30.16	766.1	68.0	20.0	90	ne.	11	4.9	.....	5 k	5 s	calm	ne.	0.16	4.1	cloudy	B. A. Blundon.
San Francisco, California	29.85	758.2	29.92	760.0	55	12.8	90	sw.	9	4.0	.....	0	38;fg	.....	s;sw.	0	0	fair	N. Gorom.
Santa Fé, New Mexico	23 27	591.0	29.77	756.1	58	14.4	60	se.	4	1.8	.....	1 k	0	w.	.....	0.18	4.6	clear	H. U. Jones.
Savannah, Georgia	30.05	763.3	30.14	765.5	81	27.2	69	n.	3	1.3	.....	4 ck	0	.....	.....	0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.58	675.1	30.09	764.3	53	11.7	80	w.	8	3.6	.....	0	7 k	.....	n.	0.22	5.6	fair	A. L. Mathews.
Shreveport, Louisiana	29.89	759 2	30.12	765.0	72	22.2	90	se.	3	1.3	.....	8 c	0	.....	.....	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.72	729.5	29.92	760.0	70	21.1	87	se.	12	5.4	.....	8 c	0	w.	.....	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.34	618.2	29.80	756.9	60	15.6	58	nw.	1	0.4	.....	0	0	.....	.....	0.04	1.0	clear	J. B. Wallace.
Sitka, Alaska	29.90	759.4	29.96	761.0	53.5	11.9	78	w.	10	4.5	.....	.....	10 ks	.....	w.	inap.	inap.	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.61	752.1	30.07	763.8	71.0	21.7	71	e	6	2.7	.....	.....	10 s	.....	e.	0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.12	765.0	30.15	765.8	71	21.7	84	n.	9	4.0	.....	1 ck	7 s	w.	.....	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.11	714.0	30.09	764.3	53	11.7	80	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.48	748.8	30.14	765.5	64.8	18.2	73	s.	6	2.7	.....	4 c	0	w.	.....	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	30.06	763.5	30.19	766.8	66.8	19.3	78	n.	4	1.8	.....	8 k	0	sw.	.....	0.14	3.6	cloudy	T. S. Outram.
Springfield, Mo.	28.66	728.0	30.05	763.3	65	18.3	84	se.	11	4.9	.....	.....	10 s	.....	s.	0	0	cloudy	J. B. Marbury.
Starkville, Miss.	29.72	754.9	30.19	766.8	73	22.8	73	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	M. J. Wright, jr.
Stevenson, Fort, Dakota	27.96	710.2	29.74	755.4	59	15.0	84	nw.	7	3.1	.....	.....	10 s	.....	.....	0	0	cloudy	W. Burrows
Stockton, Fort, Texas	26.97	685.0	29.91	759.7	64.8	18.2	90	s.	8	3.6	.....	0	5 s	.....	s.	0	0	fair	J. O'Dowd.
Thatcher's Island, Mass.	30.10	764.5	30.14	765.5	67.0	19.4	76	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	G. Liebmann
Toledo, Ohio	29.52	749.8	30.19	766.8	66	18.9	68	nw.	1	0.4	.....	2 k	0	sw.	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.53	699.2	29.85	758.2	74	23.3	73	calm	0	0	.....	1 c	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.70	754.4	30.05	763.5	56	13.3	45	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	74.1	23.4	39	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.90	759.4	30.14	765 5	72	22.2	71	e.	7	3.1	.....	4 ck	0	.....	.....	0	0	fair	H. P. Brisbane.
Visalia, California	29.48	748.8	29.85	758.2	65	18.3	63	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washakie, Fort, Wyoming	24.59	624.6	29.92	760.0	40.9	4.9	86	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.10	764.5	30.21	767.3	67.4	19.7	71	nw.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	B. M. Purssell.
West Las Animas, Colorado	25.90	657.8	29.66	753.4	64.4	18.0	59	w.	2	0.9	.....	4 k	0	w.	.....	inap.	inap.	fair	F. W. Brandenburg.
Williamsport, Pa.	29.64	752 8	30.22	767.6	62	16.7	84	w.	5	2.2	.....	hz.	fg.	.....	.....	inap.	inap.	clear	B. F. Hough.
Wilmington, N. Carolina	30.13	765.3	30.18	766.6	72	22.2	84	ne.	5	2.2	.....	.....	10 s	.....	w.	0	0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.66	651.8	29.88	758.9	54	12.2	25	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.42	721.9	29.69	754 1	69	20.6	76	s.	12	5.4	.....	10 cs	0	s.	.....	0.06	1.5	cloudy	J. H. Attield.
Yuma, Arizona	29.65	753.1	29.79	756.7	78.8	26.0	67	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	53.0	11.7	73	n.	5	2.2	.....	2 k	6ks;s	w.	nw.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.06	763.5	30.07	763.8	82	27.8	91	e.	.....	.....	.....	2 k	5 ks	e.	e.	0.60	15.2	fair	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.98	761.5	76	24.4	95	calm	0	0	.....	.....	10 ks	.....	calm	0.90	22.9	cloudy	J. I. Plume.
Kingston, Jamaica, W. I.	30.08	764.0	30.09	764.3	82.6	28.1	64	n.	1	0.4	.....	3 cs	0	ne.	.....	0	0	fine	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	75	23.9	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa	29.94	760 5	30.02	762.5	81.5	27.5	74	ne.	8	3.6	.....	5 ck	2 s	e.	e.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.08	764.0	30.08	764.0	75	23.9	90	se.	.....	.....	2	.....	8 ps	e	e.	0.040	1.0	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.40	746.7	29.96	761.0	76	24.4	91	calm	.....	.....	0	.....	10 ks	.....	calm	0.05	1.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	97	ne.	.....	.....	3	.....	9 ks	.....	ne.	0.12	3.0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.06	763.5	30.08	764.0	82	27.8	67	calm	0	0	.....	1 c	0	.....	.....	0	0	clear	Robert Mason.
York Factory, B. A.	29.90	759.4	29.96	761.0	62.0	16.7	88	nw.	6	2.7	.....	1 c	0	n.	.....	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, Saint Helena Island, Africa	30.30	769.6	73.8	23.2	90	se.			3-4		5							d. clouds.
H. M. S. Amethyst, Montevideo, Uruguay	29.98	761.5	46.5	8.1	88	sw.			6		7					4	sw.	d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.75	755.6	75	23.9		n.			2		3	n.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	29.99	761.7	67	19.4		n.			1-2		1							blue sky.
H. M. S. Comus, N. 48° 00′, E. 168° 05′	30.21	767.3	47	8.3	92	n.			1-2		10					5	sw.	misty.
H. M. S. Diamond, S. 8° 21′, E. 155° 47′	29.88	758.9	80	26.7	91	ese.			1-2		8					1	ese.	showery.
H. M. S. Dido, N. 13′, 05° W. 59° 30′	30.08	764.0	79	26.1		e.			2		4	e.						showery.
H. M. Dock-Yard, Bermuda, W. I.	30.28	769.1	81	27.2	85	sse.			1-2		4	e.						d. clouds.
H. M. S. Druid, N. 28° 28′, W. 68° 39′	30.28	769.1	81	27.2	87	se.			2-3		4	se.				2	ese.	d. clouds.
H. M. S. Eclipse, S. 5° 50′, E. 39° 25′	30.05	763.5	77	25.0		ese.			3		2					3	ese.	d. clouds.
H. M. S. Emerald, S. 1° 00′ W. 18° 10′	30.11	764.8	74	23.3	90	ene.			2		2	ene.				1	e.	d. clouds.
H. M. S. Euryalus, N. 4° 43′, E. 65° 00′	29.88	758.9	82	27.8	78	wsw.			3		9	w.				4	wsw.	d. clouds.
H. M. S. Espiegle, S. 15° 59′ E. 167° 12′	30.00	762.0	74	23.3	76	calm			0		4							squally.
H. M. S. Fantome, Saint Lucia, Jamaica, W. I.	30.08	764.0	82	27.8		ne.			1		3	ne.						d. clouds.
H. M. S. Fawn, S. 34° 29′, E. 21° 59′	30.01	762.2	66	18.9	61	nnw.			2		8					3	se.	d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.01	762.2	59	15.0	91	nnw.			3		9							d. clouds.
H. M. S. Garnet, 0° 00′, W. 20° 20′	30.09	764.3	74	23.3	81	ne.			4		5							misty.
H. M. S. Griffon, N. 51° 36′, W. 55° 29′	29.66	753.9	49	9.4	85	sw.			3		4							showery.
H. M. S. Iron Duke, N. 44° 08′, E. 139° 55′	29.94	760.5	65	18.3	94	e.			2		10	e.						d. clouds.
H. M. S. Kingfisher, N. 42° 20′, W. 124° 36′	29.91	759.7	49	9.4		nne.			5-6		9					6	nnw.	misty.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.91	759.7	78.3	25.7	88	se.			2		10					2	ese.	raining.
H. M. S. Liffey, Coquimbo, Chili	30.24	768.1	52.5	11.4		ne.			1		10							d. clouds.
H. M. S. Magpie, N. 32° 44, E. 129° 51′	29.90	759.4	79.7	26.5	84	calm			0		2							misty.
H. M. S. Minotaur, Alexandria, Egypt	29.82	757.4	78.5	25.8	73	wnw.			2		2					2	w.	d. clouds.
H. M. S. Nelson, S. 36° 20′, E. 174° 48	29.53	750.0	53	11.7	93	w.			4		3	e.						squally.
H. M. S. Northampton, Halifax, Nova Scotia	30.02	762.5	61	16.1	91	calm			0		10							misty.
H. M. S. Pegasus, N. 1° 17′, E. 103° 51′	29.85	758.2	80.5	26.9	86	s.			1		3							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Island	30.14	765.5	71	21.7	95	se.			3		5	ese.						squally.
H. M. S. Rocket, Vancouver Island, B. A.	30.03	762.7	52	11.1	93	wsw.			1		4							d. clouds.
H. M. S. Sappho, Tahiti, Society Islands, Oceania	29.92	760.0	77.5	25.3		calm			0									d. clouds.
H. M. S. Swiftsure, S. 33° 25′, W. 51° 00	30.05	763.3	53.5	11.9	86	sw.			5-6		9	sw.				4	sw.	squally.
H. M. S. Sylvia, Maldonado, Uruguay	29.94	760.5	47.7	8.7	83	w.			6		8							showery.
H. M. S. Tamar, N. 34° 36′, E. 31° 24′	29.78	756.4	77.5	25.3	77	sse.			1		7	ssw.						d. clouds.
H. M. S. Tenedos, N. 49° 28′ W. 57° 57′	29.91	759.7	61	16.1	66	calm			0		1							blue sky.
H. M. S. Tourmaline, N. 34° 36′ E. 25° 50′	29.83	757.7	76	24.4		var.			1		0							blue sky.
H. M. S. Triumph, S 39° 44′, W. 74° 42′	30.29	769.4	48	8.9	77	sse.			1		3	ssw.				4	ssw.	d. clouds.
H. M. S. Woodlark, Bushire, Persia	29.35	745.5	93.5	34.2	74	sw.			4		0					4	w.	squally.
H. M. S. Zephyr, N. 29° 42′, E. 126° 06′	29.79	756.7	82	27.8	95	ese.			3		3					1	se.	d. clouds.
Portuguese Naval.																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.08	763.9	77.9	25.5	92	ne.			2		10					2	ne.	overcast.
Tamega, Macao, China	29.64	752.8	86.0	30.0	71	sse.			3		2		se.					d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.11	764.8	75	23.9	72	ne.	4	1.8			5		ne.	0	0			fair.
Navy Yard, Portsmouth, N. H.	30.21	767.3	60	15.6	76	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.84	757.9	73	22.8	85	ssw.			1		10			sli't	sli't			gloomy.
Adams, Mare Island, Cal.	29.89	759.2	58	14.4		sw.			2		0			0	0	sm'h		clear.
Alaska, Callao, Peru	29.98	761.5	60	15.6	88	nw.			1		10			0	0	sm'h		misty.
Alert, N. 44° 57′, W. 134° 54′*	30.09	764.3	58	14.4	76	s.			3		10		s.	0	0	sm'h		cloudy.
Alliance, Boston, Mass	30.15	765.8	70	21.1	75	n.			1		8			0	0			fair.
Ashuelot, Yokohama, Japan*	29.85	758.2	74	23.3	86	ssw.			1		10		calm					rainy.
Brooklyn, Rio de Janeiro, Brazil	30.17	766.3	70	21.1	90	calm	0	0			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.14	765.5	70	21.1	75	nnw.	9	4.0			8		n.	0	0			hazy.
Constellation, N. 39° 06′, W. 73° 31′*	30.13	765.3	71	21.7	90	ne.			3		10		calm			sm'h		cloudy.
Enterprise, Provincetown, Mass*	30.13	765.3	68	20.0	95	n.			2		8		n.			sm'h		fair.
Essex, S. 43° 55′, W. 82° 42′	30.15	765.8	47	8.3	92	nne.			5		10					long		rainy.
Franklin, Norfolk, Va	30.18	766.6	70	21.1	95	nnw.	4	1.8			0			0.03	0.8			clear.
Galena, N. 34° 08′, E. 22° 30′	29.83	757.7	75	23.9	95	nw.			2		2					mod	nw.	clear.
Independence, Navy Yard, Mare Island, Cal	29.93	760.2	58	14.4	94	sw.			3		10		sw.	0	0			cloudy.
Iroquois, Mare Island, Cal	29.89	759.2	59	15.0	82	w.			3		10			0	0			cloudy.
Kearsarge, Norfolk, Va	30.16	766.1	73	22.8	95	nnw.			1		2		ne.					fair.
Lackawanna, Callao, Peru*	29.95	760.7	60	15.6	88	nw.			2		10		nw.					cloudy.
Lancaster, Alexandria, Egypt*	29.79	756.7	80	26.7	78	nnw.			2		2		calm	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	29.95	760.7	48	8.9	100	ssw.			6-7		10		sw.	mod.	mod.	r'gh	sw.	squally.
Michigan, Detroit, Mich	30.17	766.3	68	20.0	70	w.			2		0							clear.
Minnesota, Newport, R. I.	30.19	766.8	67	19.4	89	calm	0	0			10							cloudy.
Monocacy, Chefoo, China	29.60	751.8	76	24.4	95	sse.			2		10		s.			sm'h		cloudy.
New Hampshire, Newport, R. I.	30.16	766.1	66	18.9	94	n.			1		10		w.			sm'h		cloudy.
Nipsic, Alexandria, Egypt*	29.77	756.1	79	26.1	70	wnw.			2		2					sm'h		hazy.
Onward, Callao, Peru	30.12	765.0	58	14.4	100	nw.			2		10		e.			long	v	misty.
Palos, Kobe, Japan*	29.85	758.2	78	25.6	78	w.			1		2		calm					fair.
Passaic, Washington, D. C.	30.20	767.1	69	20.6	95	nw.			1		0							clear.
Pensacola, Panama, Panama*	29.83	757.7	78	25.6	91	w.					8		w.	0.01	0.3	sm'h		cloudy.
Portsmouth, N. 35° 55′, W. 6° 09′*	29.89	759.2	73	22.8	85	wnw.	3	1.3	3		8					sm'h		cloudy.
Powhatan, Pensacola, Florida	30.14	765.5	80	26.7	74	nne.			2		2		w.					clear.
Quinnebaug, Alexandria, Egypt	29.81	757.2	80	26.7	82	nw.			1		2		calm			sm'h		hazy.
Ranger, Mare Island, Cal	29.92	760.0	58	14.4	88	sw.			2		10		calm	0	0			overcast.
Richmond, Yokohama, Japan*	29.87	758.7	74	23.3	90	s.			1		10			0	0			cloudy.
Saratoga, N. 35° 55′, W. 6° 11′	29.90	759.4	70	21.1	85	nw.			3		8		nw.	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.38	771.6	69	20.6	80	n.			2		2			0.05	1.3			clear.
Swatara, Yokohama, Japan*	29.79	756.7	75	23.9	81	sse.			2		2		calm			sm'h		hazy.
Tennessee, Provincetown, Mass	30.14	765.5	70	21.1	75	w.	10	4.5			8			0	0			fair.
Vandalia, Portsmouth, N. H*	30.13	765.3	71	21.7	75	w.			1		8		calm					fair.
Wabash, Boston, Mass	30.18	766.6	69	20.6	80	n.	3	1.3			8		w.	0	0			cloudy.
Wachusetts, Highfield Harbor, Alaska†	30.31	769.9	56	13.3	81	ese.			1		10			0	0	sm'h		cloudy.
Wyoming, Port Royal, S. C*	30.12	765.0	75	23.9	100	ne.	5	2.2			8		n.	0.02	0.5			cloudy.
Yantic, Provincetown, Mass †	30.28	769.1	69	20.6	80	nne.			1		10							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 55° 40′, W. 22° 15′*.	29.65	753.1	55	12.8	68	nnw.			5		5		n.	0	0	4	ene.	d. clouds.
S. S. Grecian, N. 55° 55′, W. 15° 59′*.	29.27	743.4	56	13.3		n.			5		10		n.	1 h'r	1 h'r	mod.	n.	misty.
S. S. Nova Scotian, Halifax, N. S.	30.02	762.5	77	25.0		nw.			2		2		nw.					clear.
S. S. Scandinavian, Boston, Mass.	30.02	762.5	69	20.6		n.			1		9		s.	0	0			d. clouds.
S. S. Waldensian, N. 53° 09′, W. 14° 04′*.	29.22	742.2	56	13.3		w.			6		10		w.	shr's	shr's	short	cross	rainy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, Liverpool, Eng*†.	29.32	744.7				sw.			5		4		sw.	sh'rs	sh'rs			fine.
S. S. Lord Gough, N. 42° 04′, W. 63° 33′.	30.11	764.8	58	14.4		wsw.			1		10		wsw.	sh'rs	sh'rs	sm'h	sw.	foggy.
AMSTERDAM LINE.																		
S. S. Jason, N. 49° 34′, W. 14° 17′.	29.77?	756.1?	59.4	15.2		wnw.			6		5 k					5	nw.	
ANCHOR LINE.																		
S. S. Assyria, N. 40° 50′, W. 46° 05′*†.	30.52	775.2	75	23.9		w.			3		0			0	0	sm'h		clear.
S. S. Devonia, N. 42° 14′, W. 49° 40′†.	30.33	770.4	61	16.1		sw.			1		10		sw.			sm'h		dense fog.
S. S. Gallatia, Suez Canal, Egypt†.	29.94	760.5	89.3	31.8		ne.			6					0	0			
S. S. India, N. 37° 11′ W. 10° 19′*.	29.89	759.2	72	22.2	85	wnw.			3		2					mod.	nw.	fair.
ATLAS LINE.																		
S. S. Ailsa, N. 38° 20′, W. 73° 51′.†.	29.99	761.7	72	22.2	90	e.			3		5?		ne.	1 h'r	1 h'r	mod.	se.	clear.?
S. S. Alvo, Savanilla, U. S. C.	29.94	760.5				ne.			4		1			0	0			
S. S. Antillas, Jacmel, Hayti, W. I.*†.	30.20	767.1				se.												
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Halifax, N S.†.	30.06	763.5	63	17.2		calm			0					0	0			fair.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, N. 1° 40′, W. 24° 18′.	30.06	763.5	78	25.6	90	se.			4		3							blue sky
S. S. Basil, N. 24° 24′, W. 21° 10′.	30.06	763.5	74	23.3	74	ne.			2		6							d. clouds.
S. Baroda, S. 34° 52′, E. 23° 14′.	30.11	764.8	66.3	19.1	84	ne.			3		4							d. clouds.
S. S. City of Agra, N. 4° 18′, W. 22° 45′.	30.06	763.5	79	26.1	90	se.			5		3							d. clouds.
S. S. Glencairn, N. 38° 50′, W. 34° 49′.	30.35	770.9	72	22.2	71	wnw.			2		2							blue sky.
S. S. Gordon Castle, N. 38° 19′, W. 14° 20′.	29.97	761.2	74	23.3	72	wnw.			5		3							d. clouds.
S. S. Markland, S. 36° 36′, W. 116° 07′.	29.68	753.9	52.2	11.2	95	wnw.			6		7					5	wsw.	showery.
May Hulse, S. 1° 43′, W. 23° 28′.	30.07	763.8	77.8	25.4	69	ese.			4		2							blue sky.
S. Oamarn, S. 34° 42′, E. 22° 42′.	30.10	764.5	65.5	18.6	80	nnw.			1–2		4							misty.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 26° 02′, W. 110° 43′*†.	29.94	760.5	83	28.3	87	se.			2		2		se.					clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Ville de Marseilles, Marseilles, France*†.	29.85	758.2	85.5	29.7		wsw.			2-3		0			0	0			clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, Gluckstadt, Germany†.	29.85	758.2				sse.			4		3		s.	0	0			
S. S. Herder, N. 40° 00′, W. 62° 12′.*†.	29.70?	754.4?	77	25.0		w.			2		10		w.	2 h'r	2 h'r	sm'h	wsw.	covered.
S. S. Silesia, N. 41° 07′, W. 64° 27′†.	30.32	770.1				sw.			5		10		w.	6 h'r	6 h'r	3	wsw.	drizzling.
S. S. Wieland, N. 49° 44′, W. 4° 41′.	29.50	749.3	64	17.8		sw.			5		5		sw.	5 h'r	5 h'r	4-5	sw.	stormy.
INMAN LINE.																		
S. S. City of Berlin, N. 41° —′, W. 65° —′.	30.16	766.1				calm			0		10			sh'rs	sh'rs	sm'h		dense fog.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 3° 30′, W. 27° 30′*†.	30.24	768.1	80	26.7		ssw.			5		2		ssw.	0	0	sm'h		clear.
MALLORY LINE.																		
S. S. Colorado, N. 24° 26′, W. 81° 31′†.	30.12	765.0	83	28.3		ese.			3		3		ese.	0	0	sm'h		fair.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 35° 35′, W. 54° 13′*†.	30.48	774.2	82	27.8	87	ne.			1		1		ne.	0	0	sm'h		clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 48° 17′, W. 25° 07′†.	30.00	762.0	64	17.8	88	nw.			4		5		w.	0	0	mod.	ne.	fine.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 2° 58′, W. 36° 21′.	29.64	752.8				se.			4				sse.	0	0	mod.	se.	fine.
MORGAN LINE.																		
S. S New York, N. 27° 00′, W. 87° 44′†*.	30.22	767.6	82	27.8		calm			0		0			0	0	sm'h		clear.
NATIONAL LINE.																		
S. S. Denmark, N. 48° 18′, W. 25° 20′.	29.95	760.7	57	13.9		nw.			5		8		wnw.	0	0	long	w.	cloudy.
S. S. England, N. 40° 45′, W. 59° 32′.	30.23	767.8				ssw.			4		2		s.	3 h'r	3 h'r	mod.	w.	clear.
S. S. Erin, N. 51° 08′, W. 20° 01′.	29.63	752.6	54	12.2		nnw.			4		2		wnw.	0	0	r'gh	nw.	fine.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Saratoga, Havana, Cuba, W. I.†.	30.33	770.4	79	26.1	78	calm			0		0			2 h'r	2 h'r			clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W. I†.	30.22	767.6	78	25.6	90	ne.			1		2		ne.	1 h'r	1 h'r	small	ne.	showery.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. State of Nebraska, N. 44° 34′, W. 47° 05′†.	30.16	766.1	56	13.3		wsw.			4							sm'h		dense fog.
NORTH GERMAN LLOYD																		
S. S. America, N. 49° 48′, W. 10° 59′*.	29.35	745.5	60.8	16.0		w.			5		4		w.	3 h'r	3 h'r	mod.	sw.	fine.
S. S. Gen. Werder, N. 49° 46′, W. 11° 01′.	29.37	749.0				w.			4		5?		w.	4 h'r	4 h'r	mod.	wsw.	cloudy ?
S. S. Habsburg, N. 40° 02′, W. 69° 55′.	30.22	767.6	66.2	19.0		calm			0		10			4 h'r	4 h'r	sm'h		rainy.
S. S. Hohenzollern, N. 45° 34′, W. 26° 04′*.	30.02	762.5	59.0	15.0		nw.			3		9		wnw.	0	0	mod.	nw.	cloudy.
S. S. Mosel, N. 40° 49′, W. 69° 22′.	30.16	766.1	50.0?	10.0?		sw.			1					0	0	mod.		foggy.
S. S. Ohio, Bremerhaven, Germany.	29.67	753.6				s.			2		2		s.	1 h'r	1 h'r			fair.
S. S. Salier, N. 40° 28′, W. 47° 32′.	30.39	771.9	60.8	16.0		sw.			2		10		sw.	0	0	mod.	sw.	foggy.
S. S. Strassburg, N. 43° 18′, W. 42° 36′.	30.19	766.8	87.0?	30.6?	72	w.			3		1		w	2 h'r	2 h'r	mod.	wsw.	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 38° 46′, E. 146° 51′*†.	29.98	761.5	68	20.0	94	sse.			4		5		sw.	sh'rs	sh'rs	mod.	s.	d clouds.
S. S. Belgic San Francisco, Cal†.	29.98	761.5	61	16.1	77	sw.			3		5		sw.					hazy.
S. S. Oceanic, N. 22° 18′, E. 114° 59′*.	29.57	751.1	83	28.3	95	se.			3		5		se.			3	sse.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†.	30.19	766.8				nne.			3		6?			0	0			clear.
S. S. City of Columbus, Tybee Roads, Ga.†.	30.11	764.8				e.			3		4?		ne.	0	0	mod.	ne.	cloudy.?
S. S. Seminole, N 34° 35′, W. 75° 40′†.	30.22	767.6	78	25.6	82	nw.			3		1		nnw.	2 h'r	2 h'r	sm'h	se.	clear
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, Portland, Oregon†.	30.02	762.5	57	13.9	75	calm			0		0							clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†.	29.87	758.7	55	12.8	87	wsw.			2		8		w.					cloudy.
S. S. Dakota, Seattle, Wash. Ter*†.	29.99	761.7	74	23.3	76	calm			0		0							clear.
S. S. State of California, N. 40° 36′, W. 124° 30′†.	29.91	759.7	49	9.4	100	nw.			4		10		nw.			h'vy	nw.	foggy.
S. S. Victoria, N. 39° 13′, W. 123° 59′†.	30.28	769.2	53	11.7	100	w.			2		8			0	0	light	nw.	foggy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S Australia, Sydney, N. S. W.	30.36	771.1	50	10.0	79	sw.			1		0			0	0			clear.
S. S. City of New York, S. 5° 30′, W. 166° 36′†.	29.91	759.7	82	27.8	79	ese.			3		5		se.	2 h'r	2 h'r	mod.	e.	squally.
S. S. City of Pekin, N. 48° 07′, W. 170° 00′†.	30.17	766.3	46	7.8	100	s.			1		10		s.	0	0	sm'h		misty.
S. S. City of Rio de Janeiro, N. 16° 30′, W. 99° 22′.*†.	30.20	767.1	81	27.2	87	e.			2		10		e.	0	0	long	se.	fair.
S. S. City of Sydney, S. 34° 10′, E. 164° 50′†.	30.08	764.0	63	17.2	83	sw.			6		8		sw.	0	0	h'vy	sw.	cloudy.
S. S. City of Tokio, N. 40° 35′, E. 160° 20′†.	30.30	769.0	59	15.0	88	se.			2		10			½ h'r	½ h'r	small	s.	foggy.
S. S. Colon, Aspinwall, Panama†.	29.95	760.7	80	26.7		e.			1		10		e.	3 h'r	3 h'r	mod.		overcast.
S. S. Colima, N. 12° 07′, W. 87° 22′†.	29.95	760.7	80	26.7	82	ne.			5		8		nw.	0.10	2.5	mod.	nne.	cloudy.
S. S. Granada, N. 33° 52′ W. 120° 20′†.	30.01	762.2	56	13.3	100	calm			0		10			0	0	light	wnw.	hazy.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, Antiqua, W. I.	29.97	761.2	82	27.8		ene.			3		10			0	0	sm'h		overcast.
S. S. Bermuda, N. 19° 30′ W. 64° 00′†.	30.17	766.3	82	27.8		e.			4		6?		e.	light	light	long	e.	cloudy?
RED STAR LINE.																		
S. S. Belgenland, N. 49° 01′ W. 15° 01′†.	29.59	751.6	62	16.7	100	n.			8		5		n.	2 h'r	2 h'r	r'gh	wnw.	
S. S. Nederland, N. 44° 20′, W. 35° 42′†.	30.02	762.5	64.5	18.1	100	nnw.			4		0					mod.	wnw.	misty.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
RED STAR LINE—Continued.																		
S. S. Rhynland, Staten Island, N. Y†	30.11	764.8	70	21.1	80	nnw.			4		5		nnw.	0	0			fair.
S. S. Vaderland. Antwerp, Belgium	29.46	748.3	84	28.9	68	se.			2		5?		sse.	0	0			cloudy.?
ROTTERDAM LINE.																		
S. S. P. Caland, N. 46° 21′, W. 30° —′	29.92	760.0	61.9	16.6	89	wsw			4		6 ks		sw.			long	w.	rainy.
S. S. W. A. Scholten, N. 40° 55′ W. 66° 13′	30.12	765.0	67.6	19.8	92	wsw.			2		10		w.	9 h'r	9 h'r	sm'h	w.	fair.
STATE LINE.																		
S. S. State of Florida, Glasgow. Scotland	29.20	741.7	66	18.9		sse.			3		9		sse.	12 h'r	12 h'r			hazy.
S. S. State of Georgia, N. 52° 58′ W. 21° 52′†	29.68	753.9	53	11.7		nw.			5		5		nnw.	0	0	r'gh	ne.	fine.
S. S. State of Indiana, N. 40° 34′, W. 63° 50′†	30.54	775.7	68	20.0		var.			1		4		se.	2 h'r	2 h'r	sl't	sw.	hazy.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.10	764.5	77.0	25.0		ssw.			2		3		ssw.	4 h'r	4 h'r			clear.
WHITE STAR LINE.																		
S. S. Celtic, Off Mine Head, Ireland†	29.33	745.0	59	15.0	88	ssw.			5		2		sw.	shr's	sh'rs	mod.	sw	showery.
S. S. Germanic, N. 50° 56′, W. 14° 59′†	29.48	748.8	58	14.4		nnw.			6		10		nw.			long	w.	d. clouds.
S. S. Republic, Liverpool, Eng†	29.42	747.3	64	17.8	100	sw.			5		4		sw.	20 h'r	20 h'r			d. clouds.
WINSOR LINE.																		
S. S. Catherine Whiting, Providence, R. I†	30.20	767.1	74	23.3		ne.							ne.	0	0			
MISCELLANEOUS.																		
Schr. Ajax, Pass Cavallo, Texas†	30.18	766.6				calm			0		4		se.	0	0	sm'h	s.	fair
Bk. Alpha, New York, N. Y†	30.09	764.3	70	21.1		n.			3		6		nw.	0	0			misty.
Schr. Annie Lewis, Aransas, Pass, Texas†	30.19	766.8	82	27.8		sse.			3		5?		sse.	0	0	long	sse.	cloudy?
Bk. Anna Thormann, S. 40° 07′, E. 14° 46′	29.95	760.8	59.4	15.2	84	nw.			5		10 k;n		nw.	0	0	mod.	ne.	misty.
S. S. Antonio Lopez, N. 26° 45′, W. 24° 48′	30.10	765.1	73.5	23.1	76	ne.			5		3			0	0	mod.		fair.
Bk. Argonaut, N 54° 05′, W 23° 49′*†	29.82	757.4	53.6	12.0		nnw.			4		3		nnw.	4 h'r	4 h'r	long	n.	fair.
Schr. Asa Eldridge, N. 26° 04′, W. 82° —′†	30.21	767.3				s.			1		5		sw.	1 h'r	1 h r		w.	fair.
S. S. Burswell, N. 40° 07′, W 50° 45′*†	30.40	772.1	81	27.2		sw.			2		1		calm	0	0	sl't	wnw.	very fine.
Bk. Cato, N. 59° 55′, W. 5° 40′*†	29.65	753.1				ese.			5		5		ese.	rain	rain	mod.	ne.	raining.
Bk. Celestina, S. 32° 05′, W. 38° 13′*†	30.29	769.4				ne.			3		0			0	0	mod.	var.	clear.
Schr. C. R. Flint, Cedar Keys, Florida†	30.29	769.4	83	28.3		e.			2		5?		se.	0	0			clear.
S. Cornelius, N. 39° 14′, W 53° 24′*†	30.62	777.7	80	26.7		w.			3		1		wsw.	0	0	sm'h	wnw.	clear.
S. S. D. J. Foley, N. 35° 20′, W 75° 00′†	30.10	764.5				nnw.			4		1		n.	0	0	mod.	sw.	clear.
Schr. Edith R. Seward, Ponce, Porto Rico, W. I*†	30.13	765.3	87	30.6		ne.			1		1		e.	0	0			clear.
S. E. J. Spicer, New York, N. Y*	29.91	759.7	73	22.8		nne.			2		5		ne.	0	0			
Bk. E. L. Pettingill, N. 40° 54′ W. 134° 40′†	30.30	769.6				ne.			1		5?		n.	0	0	sm'h	e.	cloudy.?
S. Enoch Train, N. 39° 24′, W. 53° 04′*†	30.40	772.1				sw.			2		0			0	0	light	nw.	clear.
Bk. Essex, S. 38° 33′ E. 4° 43′*†	29.81	757.2	54	12.2		sw.			3		fg.		sw.	mist	mist	hv'y	n.	
Bk. Freya, N. 40° 22′, W. 70° 41′						se.			2					0	0	sm'h		foggy.
S. Grecian, Hong Kong, China*†	29.60	751.8	85	29.4		ese.			2		2		e.	0	0			clear.
Bk. Hattie G. McFarland, N. 39° 50′, W. 73° 55′*†	30.18	766.6	70	21.1		e.			3		8		nw.	4 h'r	4 h'r	long	s.	showery.
S. Hedwig, N. 39° 11′, E. 19° 26′	29.84	757.8	72.5	22.5	93	nnw.			5		1		nnw.	0	0	long	nnw.	
Bk. Horace Scudder, N. 29° 37′, W. 58° 21′†	30.39	771.9	82	27.8		e.			2		2		calm	0	0	mod	se.	blue sky.
S. Ivy, N. 9° 28′, W 124° 08′†	30.17	766.3	77	25.0		calm			0		2			0	0	mod.	sse.	clear.
S. Ismir, S. 44° 30′ E. 64° 59′†	29.32	744.7				wsw.			7		10			5 h'r	5 h'r	h'vy	wsw.	snow sq'lls
Schr. Jennie N. Huddell, Boston Light, Mass†	30.31	769.9	68	20.0	90	n.			1		8			0	0	sm'h		fair.
Bk. Johanne, N. 52° 40′, W. 29° 00′*†	29.75	755.6	55	12.8		s.			3		1?		se.	2 h'r	2 h'r	hv'y	ene.	overcast ?
Schr. John L. Thomas, N. 18° 30′, W. 84° 25′*†	30.12	765.0				ne.			2		1		ene.	0	0	mod.	ene.	clear.
Bg. John Wesley, N. 26° 46′ W. 71° 58′†	30.06	763.5				se.			2		1		ese.	½ h'r	½ h'r	mod.	se.	clear.
Bk. Joseph A. Ropes, N. 2° 54′, W. 24° 45′*†	30.09	764.3	80	26.7	90	sse.			5		4		sse	0	0	mod.	sse.	fair.
Bkt. Josephine, N. 36° 22′, W. 73° 52′†	30.15	765.8	74	23.3	76	e.			3		10			½ h'r	½ h'r	mod.	s.	cloudy.
Bkt. Kryolith, N. 47° 29′, W. 50° 42′*†	29.90	759.4				ssw.			4		5?		ssw.			mod.	ssw.	clear.?
S. S. Lamperts, N. 38° 13′, E. 11° 59′*	29.90	759.4	74.0	23.3	76	n.			1		0							blue sky.
S. S. Laurel, Off Appalachicola, Fla†	30.17	766.3	79	26.1		n.			1		1		calm	0	0			clear.
Bk. Liberia, N. 10° 56′, W. 24° 11′*	29.96	761.0	79	26.1	90	nw.			3		5		nw.	3 h'r	3 h'r		s.	
S. S. Madrid, N. 37° 50′, W. 71° 57′*†	30.28	769.1	68	20.0		ene.			3		8		wsw.	4 h'r	4 h'r	sm'h		clearing.
S. S. Malabar, N. 42° 59′, W. 132° 38′*†	30.42	770.1				ne.								0	0			
S. Orealla, N. 36° 09′, W. 56° 04′*	30.26	768.6	79	26.1		se.			1		1		se.	0	0	sm'h		clear.
S. Paramita, S. 10° 50′ W 107° 20′†	29.90	759.4	80	26.7		ese.			5		1		ese.	2 h'r	2 h'r	long	ese.	clear.
S. S. Ponca, N. 27° 26′, W. 68° 39′†	30.26	768.6	86	30.0		ese.			1		1		se.	¼ h'r	¼ h'r	light	ese.	clear.
S. S. Sunbeam, Odessa, Russia	29.49	749.0	75	23.9	69	n.			1		2		nw.					blue sky
S. Sovereign of the Sea, N. 3° 18′ W. 26° 16′*†	29.96	761.0	85	29.4	83	se.			3		3		sse.	0	0	sm'h	sse.	clear.
Bg. Teneriffe, Cardenas, Cuba, W. I	30.07	763.8				se.			2									
Bk. Truro, N. 43° 56′, W. 36° 26′*†	30.09	764.3				w			4		10		w.	0	0	mod.	w.	clearing.
U. S. F. C. S. S. Fish Hawk, St. Jerome Creek, Md†	30.40	772.1	77	25.0	90	nnw.			2		3		calm.	0.26	6.6			fair.
Schr. Viola Reppard, Baltimore, Md†	30.15	765.8	78	25.6		ssw.			1		2			0	0			clear.
Bk. Wm. Wilcox, S. 34° 40′, W. 53° 50′*†	29.97	761.2	57	13.9		w.			5		8		w.	6 h'r	6 h'r	r'gh	nne.	squally.
Wm. Woodbury, N. 53° 42′, E. 8° 14′*	29.80	756.9	71	21.7	67	se.			2		2?		se.	sq'ls	sq'ls	sm'h	s.	cloudy.?

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



UNITED STATES OF AMERICA

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 16, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			29.93	760.1	79.0	26.1	86	sw.			3		2			0	0	fair	Bouvier.
Algiers			29.86	758.4	82.4	28.0	39	ne.			2		0			inap.	inap.	clear	Nicolas.
La Calle			29.82	757.4	86.4	30.2	56	nw.			2		1			0	0	very fair	Fonfrède.
Tunis			29.83	757.6															Jacques.
Saida			30.00	761.9	91.0	32.8	26	ese.			2		0			0	0	clear	Perès.
Tebessa			29.91	759.8	94.6	34.8	22	w.			2		1			inap.	inap.	very fair	Derché.
Geriville					95.4	35.2	11	nnw.			1		0			0	0	clear	Louchamp.
Laghouat			30.01	762.3	97.5	36.4	38	w.			1		0			0	0	clear	Abraham.
Biskra			29.93	760.2	99.7	37.6	18	se.			4		2			0	0	fair	Malau.
Australian.																			
Melbourne, Victoria	30.22	767.6	30.31	769.9	46.0	7.8	97	sw.	2	0.9			8			0.03	0.8	raining	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.19	741.5	29.71	754.6	82.4	28.0	43	sw.			4		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.01	736.8	29.72	755.0	83.5	28.6	50	ese.	6.3	2.8			1			0	0		Dr. Wierzbiski.
Eperies	28.88	733.5	29.70	754.4	81.0	27.2	57	n.			2	7 cs	0		s.	0	0		Julius Mikolik.
Gratz	28.51	724.2	29.69	754.1	78.1	25.6	78	sw.			2		0			0	0		Andreas Rospini.
Hermannstadt	28.33	719.6	29.66	753.3	82.9	28.3	50	se.			2		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.36	720.3	29.61	752.2	79.5	26.4	64	ene.			3		0			0.496	12.6	clear	The Staff.
Lemberg	28.93	734.9	29.87	758.8	75.0	23.9	67	ne.			2		9			0.075	1.9		Dr. T. Stanecki.
Pola	29.71	754.7	29.82	757.4	87.4	30.8	41	sse.			3		0			0	0		I. R. Hydrographic Office.
Szathmar	29.22	742.1	29.66	753.3	83.8	28.8	62	w.			1		8			0.114	2.9		Joseph Midlinszky, S. J.
Szegedin	29.44	747.7	29.70	754.4	78.3	25.7	63	e.			1		4			0	0		Karl Stancel.
Trieste	29.72	754.9	29.82	757.5	83.3	28.5	55	calm			0		1			0	0		Royal Academy.
Vienna	29.04	737.5	29.71	754.6	84.2	29.0	39	se.			1		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.29	744.0	29.39	746.5	58.0	14.4	79	sse.	21	9.4			9			0	0	squally	W. Boswell
Armagh, Observatory	29.15	740.4	29.38	746.2	61.5	16.4	79	sw.	11	4.9									S. Call.
Bidston, Liverpool Obs'y					64.1	17.8	73	sw.	17	7.6			10					overcast	John Hartnup.
Bolton, Sharples	28.95	735.3	29.47	748.5	61.8	16.6	75	s.	18	8.0			10					gloomy	Thomas Mackereth, [ton.
Bradford, Yorkshire																0.15	3.8		McLandsborough & Pres-
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	83.0	28.3	64	ne.			2		3					d clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.59	751.6	68.0	20.0	72	s.			4.0		9					overcast	John McLaren.
Chatham, School M. E.	29.52	749.8	29.65	753.1	65.2	18.4	92	sw.			2		8					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.43	747.5	29.66	753.4	59.0	15.0	90	sw.			4		10					overcast	The Staff.
Fort Napier, Natal	27.82	706.6	30.04	763.0	73.0	22.8	29	ne.			6		2					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.69	754.1	29.82	757.4	82.0	27.8	74	nw.			1		5					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.95	760.7	30.00	762.0	79.5	26.4	73	w.			3		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.03	737.3	29.23	742.4	60.8	16.0	82	sw.			5		10 n					gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.47	748.5	29.64	752.8	67.0	19.4	66	ssw.			4		9					d. clouds	The Staff.
Guernsey	29.43	747.5	29.72	754.9	63.6	17.6	80	wsw.			3		6					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.60	751.8	29.64	752.8	65.9	18.8	62	ssw.	20	8.9			8					d. clouds	The Staff.
Leicester, Museum	29.35	745.5	29.59	751.6	67.5	19.7	58	sw.			2		8					d. clouds	J. O. Smith.
Malta, Mediterranean	29.84	757.9	29.91	759.7	78.4	25.8	77	ne.			2		0					blue sky	I. H. Whysall.
Nassau, Bahamas	30.15	765.8	30.20	767.1	84.2	29.0	68	se.			1		4			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.04	737.6	29.55	750.6	65.1	18.4	67	ssw.			6		7					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.30	745.7	29.59	751.6	66.8	19.3	69	s.			3		3					d. clouds	The Staff.
Plymouth	29.56	750.8	29.04	752.8	64.2	17.9	80	w.			3		10					misty	John Merrifield.
Sandwick Manse, Orkneys			29.34	745.2	61.8	16.6	77						0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.70	754.4	29.77	756.1	84.8	29.3	59	sw.			1		1					blue sky	W. H. Lyne.
Sheffield	29.24	742.7	29.51	749.5	70.4	21.3	69	sw.			1		9			0.46	11.7	overcast	W. F. Cooper.
Silloth Rectory	29.37	746.0	29.40	746.7	65.0	18.3	74	sw.			4		6			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.50	749.3	63.0	17.2	71	ssw.	25	11.2			6					d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.43	747.5	29.64	752.8	67.2	19.6	64	sw.			3		5					d. clouds	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.66	753.4	29.67	753.6	64	17.8	78	w.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.58	751.3	29.61	752.1	59.7	15.4	81	wnw.	20	8.9			10			blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.20	767.1	30.24	768.1	67	19.4	74	calm	0	0		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.21	767.3	30.27	768.8	62	16.7	87	sw.	2	0.9		0	0			0.03	0.8	clear	G. A. Blair.
Father Point, Quebec*	30.16	766.1	30.18	766.6	64	17.8	73	w.	12	5.4		2 c	0	calm		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.89	733.8	29.69	754.1	57	13.9	83	nw.	17	7.6		2 cs	8 k	nw.	nw.	1.470	37.3	cloudy	James Stewart.
Halifax, N. S*	30.12	765.0	30.25	768.3	67	19.4	78	nw.	3	1.3		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.89	759.2	30.22	767.6	65	18.3	73	e.	5	2.2		10 cs	0	sw.		0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	30.05	763.3	30.25	768.3	70	21.1	59	w.	9	4.0		5 c	0	nw.		0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.45	748.0	30.13	765.3	64	17.8	73	s.	12	5.4		2 k	2 ks	w.	w.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.49	749.0	30.17	766.3	66	18.9	95	calm	0	0		3 c	0	n.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.50	749.3	30.13	765.3	67	19.4	90	se.	5	2.2		5 ck	0	e.		0	0	fair	M. Payne.
Quebec, Quebec*	29.94	760.5	30.20	768.0	62	16.7	87	w.			1	0	2 s		w.	0.09	2.3	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.73	755.1	30.18	766.6	54	12.2	93	e.	2	0.9		3 ck	0	sw.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.39	746.5	30.09	764.3	61	16.1	75	se.	6	2.7		0	0			0	0	clear	
St. Andrews, N. B	30.21	767.3	30.26	768.6	65	18.3	81	nnw.	1	0.4		0	0			0	0	clear	
Sydney, C. B*	30.17	766.3	30.23	767.8	66	18.9	68	calm	0	0		0	0			0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.82	757.4	30.19	766.8	63	17.2	81	e.	2	0.9		4 c	0			0	0	fair	Magnetic Observatory.
Yarmouth, N. S*	30.18	766.6	30.24	768.1	60	15.6	84	calm	0	0		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
Sub-series.																			
Mount Forest	28.76	730.5	30.20	767.1	59.0	15.0	82	sw.			4	10 ck	0	wsw.		0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	30.01	762.2	30.26	768.6	57	13.9	69	nw.	0	0		0	0			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.99	761.7	30.02	762.5	65.0	18.3	88	w.	4.7	2.1		2 c	0			0	0	light haze	John Duthie.
Cape Town, C. G. H. Obs'y	30.06	763.5	30.10	764.5	62.4	16.9	80	wnw.	17	7.6		0	6			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.70	754.4	29.72	755.0	81.0	27.2	85	se.	12.8	5.7			0			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.73	755.1	29.78	756.3	66.5	24.7	55	se.	16	7			1						Oversergent Fischer.
Fanöe	29.60	753.3	29.68	753.8	74.5	23.6	67	n.			2		1						Overloerer Lauridsen
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.59	751.6	29.63	752.7	48.9	9.4	67	calm			0		0						A. O. Thorlacius.
Thorshavn	29.20	741.6	29.23	742.5	57.6	14.2	87	s.	9	4			10					foggy	Overloerer Bergh.
Vestervig	29.64	752.8	29.73	755.1	66.6	19.2	91	calm			0		10					raining	Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.41	746.9	30.04	763.0	65.8	18.8	86				1		n		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.24	742.6	29.79	756.6	69.8	21	73	s.			2		kn			0.055	1.4		M. Nicot, Director.
Arras, Engineer School	29.47	748.5	29.72	754.8	67.1	19.5	61	w.			2		k			0.130	3.3		M. Fénéon, Command't.
Avignon, Normal School	29.70	754.3	29.78	756.3	77.0	25	61	nw.			2		2		sw.	0.322	8.2	slightly cl'dy.	M. Girnud, Director.
Bar-sur-Seine	29.24	742.6	29.78	756.4	66.6	19.2	79	s.			1		10		sw.	1.122	28.5	covered	M. Saillard, Director.
Beauvais, Normal School	29.50	749.3	29.76	755.8	72.9	22.7	60	s.			2		8		wsw.	0.382	9.7	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	28.91	734.2	29.76	755.8	69.1	20.6	72	ssw.			1		10 k		ssw.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.01	752.0	29.86	758.5	66.7	19.3	66	w.			1		8		w.	0.322	8.2	very cloudy.	M. Rayet, Director.
Bourges, Normal School	29.28	743.8	29.82	757.5	66.2	19	63	w.			1		k		w.	0.610	15.5		M. Malet, Director.
Brest, Naval Observatory	29.55	750.5	29.79	756.7	67.3	19.6	68	wsw.			2		9		wsw.	0.087	2.2		M. de Kermaree, Dir.
Caen, Normal School	29.72	755.0	29.80	756.9	69.4	20.8	50	w.			1		5		w.	0.114	2.9		M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.30	744.3	29.61	752.1	67.3	19.6	58	ssw.			2		10	w.	w.	0.394	10.0	covered	M. Jadot, Director.
Charleville, Normal School	29.29	744.0	29.79	756.6	71.6	22	67									0.425	10.8		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.51	724.2	29.84	757.9	61.2	16.2	87	n.			1		10			0.402	10.2	covered	M. Allnard, Director.
Cluny, Normal School	28.98	736.2	29.79	756.7	62.6	17	68	s.			2		8		s.	0.346	8.8		M. de Villemontée, Dir.
Commercy, Normal School	28.95	735.2	29.78	756.4	64.9	18.3	82	sw.			1		10 kn	sw.	sw.	0	0	covered	Dr. Coulet, Director.
Gap, Normal School	27.32	693.8	29.74	755.5	71.6	22	42	e.			1	2	7		sw.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.65	727.8	29.71	754.7	82.8	28.2	29	se.			4		5		se	0	0		M. Kinn, Director.
Grenoble, Normal School	29.01	736.8	29.78	756.5	70.2	21.2	52	nw.			1		sn		sw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.28	718.3	29.83	757.6	60.4	15.8	81	nw.			1	5 ck	0	w.		0.79	20.	cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.56	750.8	29.83	757.6	68.0	20.0	81	ssw.			2		8		ssw.	0	0	very cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.24	742.6	29.79	756.7	65.1	18.4	67	w.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.71	754.6	29.81	757.2	65.5	18.6	90	w.			1		5		w.	0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.79	731.3	29.81	757.2	67.5	19.7	54	sse.			1	8 c;ck		ssw.	ssw.	0.193	4.9	very cloudy.	M. André, Director.
Mans, Normal School	29.47	748.4	29.77	756.1	66.6	19.2	72	sw.			1		2		sw.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.50	749.2	29.76	755.8	79.3	26.3	32	sse.			4		2		sse.	0.142	3.6		M. Stephan, Director.
Montlouis	24.75	628.7	29.60	751.7	50.9	10.5	75	sw.	16.8	7.5			10	nw.		0.354	9.0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.65	753.1	29.78	756.3	63.3	17.4	98	nw.			3		8	w.		0.386	9.8	thund'r st'm	M. Galzin, Director.
Nancy, Normal School	29.09	738.9	29.85	758.2	70.5	21.4	62	s.			1		kn			0.031	0.8		M. Hasse, Director
Nantes, Observatory	29.65	753.2	29.82	757.3	69.4	20.8	61	wnw.			2–3		7 k;kn		w.	0.35	9.		M. Latrocque, Director.
Perpignan, Observatory	29.72	755.0	29.83	757.7	64.0	17.8	70	nw.	7.4	3.3			10		wnw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.16	537.4			31.5	−0.3		nw.			1		10		nw.	0.650	16.5	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.76	730.6	29.79	756.6	72.0	22.2	54	s.			1		10			0.12	3.	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.01	635.3			43.7	6.5	100	w.			3		10			0.335	8.5	rain & fog	M. Allnard, Director.
Rochefort, Naval Obs'y	29.82	757.4	29.85	758.2	70.2	21.2	100	wsw.			2		5	w.	w.	0.08	2.	½ covered	Lt. E. Decaute, Director.
Roche-sur-Yon, N. School	29.61	752.0	29.82	757.3	66.6	19.2	81	ssw.			2		5		ese.	0.138	3.5	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.71	703.8	29.82	757.5	57.9	14.4	86	se.			2		10		w.	1.496	38.0	raining	M. Seger, Director.
Rouen, Normal School	29.08	753.8	29.72	755.0	68.7	20.4	58	ssw.			1		5		ssw.	0.075	1.9	cloudy	M. Brotier.
Saint Maur, Observatory	29.60	751.9	29.77	756.1	69.3	20.7	59	wsw.			1		9	wsw.		0.200	6.6		M. Renou, Director.
Toulouse, Observatory	29.24	742.6	29.96	761.0	61.2	16.2	89	w.			3		10			1.303	33.1	covered	M. Baillaud, Director.
Tours	29.60	751.7	29.77	756.2	74.5	23.6	50	wsw.			1		10 k		wsw.	0.028	0.7	stormy	M. de Tastes.
Versailles, Observatory	29.28	743.7	29.77	756.2	69.1	20.6	54	w.			1					0.020	0.5		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.47	748.6	29.75	756.0	68.2	20.1	61	wsw.			1		10		sw.	0.165	4.2		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.29	718.6	29.64	752.8	83.7	28.7	39	s.			2		0			0	0		Prof. Jnedt.
Bamberg	28.87	733.2	29.71	754.6	86.0	30.0	50	calm			0	0	0			0	0		Prof. Dr. Roh.
Berlin	29.67	753.7	29.84	757.9	86.7	30.4	30	se.			2		0			0	0		Prof. Dr. Arndt.
Breslau	29.28	743.0	29.80	757.0	87.1	30.6	40	ese.			2		3			0	0		Royal University Obs'y.
Carlsruhe	29.27	743.5	29.68	753.9	81.7	27.6	56	w.			2		1	sw.		0.268	6.8		Albert Senz.
Cassel	28.98	736.0	29.69	754.1	95.7	35.4	38	sw.			1		2	sw.				thund'r str'm	Dr. H. Möhl.
Frankfort-on-the-Main	29.32	744.0	29.65	753.1	83.7	28.7	53	wsw.			1		1			0	0		Physical Society.
Friedrichshafen	28.30	718.8	29.65	753.2	75.9	24.4	67	ssw.			3		0			0.504	12.8		Wilhelm, Chief Tel.
Hamburg	29.58	751.3	29.67	753.7	86.2	30.1	40	ssw.			4		0			0	0		E. Preller.
Kiel	29.04	752.9	29.66	753.3	81.0	27.2	49	se.			2		1			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.30	744.1	29.69	754.0	87.1	30.6	33	se.			3		0			0	0		H. Leppig, Asst.
Magdeburg	29.50	749.3	29.67	753.6	90.9	32.7	33	sse.			2		0			0	0		Dr. Assmann.
Memel	29.91	759.8	29.96	761.0	84.9	29.4	40	e.			2	0	2 k						Issermann
Munich	27.93	709.3	29.77	756.2	80.1	20.7	49	nw.			1		1	s.		0	0		Dr. C. Lang.
Neufahrwasser	29.90	759.5	29.92	759.9	75.9	24.4	66	ne.			2		2			0	0		A. Lothes.
Neustadt, Palatinate	29.16	740.0	29.68	753.9	77.0	25.0	61	w.			4		6	w.		0.039	1.0		Dickmether.
Stuttgart	28.76	730.6	29.60	751.8	81.5	27.5	44	n.			3		1	n.		0.217	5.5		Prof. Dr. Schoder.
Wustrow	29.73	755.2	29.76	755.8	85.5	29.7	44	se.			4		3 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.48	748.7			82.0	27.8		s.			3.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.44	747.7	29.49	749.0	87.0	30.6	72	w.	20.0	8.9			4			0	0	d. clouds	
Deesa	28.99	736.4	29.45	748.1	85.9	29.9	66	sse.	13.0	5.8			10	ese.		0	0	hazy	
Bombay	29.59	751.6	29.63	752.5	78.3	25.7	92	wsw.	23.0	10.3			10		w.	0.29	7.4	overcast	
Poona, Yarrowda	27.78	705.6	29.64	753.0	72.8	22.7	86	wsw.	24.0	10.7			9	wsw.	wsw.	0.07	1.8	d. clouds	
Trichinopoly	29.50	749.2	29.78	756.3	81.5	27.5	68	wnw.	2.0	0.9			10			0	0	overcast	
Bellary	28.22	716.9	29.67	753.6	84.5	29.2	52	sw.	16.3	7.3			10	sw.		0	0	gloomy	
Belgaum	27.21	691.1	29.78	756.3	68.1	20.1	96	wsw.	20.0	8.9			8	e.	sw.	1.39	35.3	showery	
Lahore	28.64	727.4	29.35	745.4	96.0	35.6	51	w.	1.2	0.5			3			0	0	d. clouds	
Roorkee	28.51	724.2	29.40	746.8	79.8	26.6	92	se.	1.8	0.8			10			0.24	6.1	overcast	
Agra	28.83	732.4	29.38	746.3	87.3	30.7	78	nw.	2.3	1.0			8		n.	0.40	10.2	d. clouds	
Nagpur	28.46	722.8	29.49	749.1	79.5	26.4	83	w.	2.8	1.2			9		w.	0.25	6.4	gloomy	
Jubbulpore	28.12	714.3	29.48	748.7	74.9	23.8	89	w.	7.9	3.5			10			0.91	23.1	overcast	
Lucknow	29.04	737.7	29.41	747.0	90.1	32.3	62	ene.	2.5	1.1			0			0.10	2.5	blue sky	
Allahabad	29.06	738.1	29.36	745.8	86.2	30.1	80	e.	3.3	1.5			9			0.03	0.8	d. clouds	
Patna	29.25	742.8	29.43	747.4	87.6	30.9	69	e.	7.7	3.4			6	e.	e.	0.10	2.5	d. clouds	
Hazaribagh	27.42	696.5	29.39	746.4	82.0	27.8	77	calm	7.7	3.4			9	e.	w.	0	0		
Cuttack	29.38	746.2	29.46	748.3	84.2	29.0	70	wsw.	3.2	1.4			9			0	0	d. clouds	
Calcutta, Alipore	29.41	747.0	29.43	747.5	83.2	28.4	81	ssw.	6.0	2.7			0		sw.	0.15	3.8	d. clouds	
Dhubri	29.34	745.2	29.45	748.1	84.2	29.0	86	calm	2.7	1.2			9	ene		0	0	d. clouds	
Chittagong	29.43	747.4	29.52	749.7	81.2	27.3	88	se.	7.2	3.2			6			0	0	blue sky	
Sibsagar	29.13	739.9	29.46	748.2	86.3	30.2	78	s.	1.2	0.5			10	w.	w.	0.50	12.7	d. clouds	
Jeypore	28.02	711.7	29.44	747.7	81.2	27.3	89	wnw.	4.2	1.9			9	w.		0.28	7.1	d. clouds	
Zanzibar, Africa	30.05	763.3			82.2	27.9	49	s.	9.2	4.1			3		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.41	747.0	29.80	756.9	84.0	28.9	55	calm	0	0			5			0	0		Prof. Giovanni Cloding.
Milan	29.30	744.3	29.80	756.9	85.6	29.8	16	s.	4.3	1.9			1			0	0		Prof. Schiaparelli.
Padua	29.67	753.5	29.77	756.2	84.9	29.4	34	wsw.	4.3	1.9			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.89	733.7	29.75	755.7	82.4	28.0	30	e.	9.4	4.2			5	ese.		0	0		Prof. P. F. Denza.
Genoa	29.67	753.6	29.85	758.3	76.3	24.6	65	se.	6.9	3.1			0			0	0		Prof. G. M. Garibaldi.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Mondovi	27.92	709.1	29.75	755.6	80.1	26.7	36	e.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	29.74	755.5	29.79	756.7	80.1	26.7	61	e.	12.5	5.6			0			0	0		Prof. Luigi Guidi.
Florence	29.59	751.5	29.83	757.7	84.7	29.3	33	se.			2		0			0	0		Prof. Costantino Pitter
Leghorn	29.72	754.9	29.80	757.0	81.0	27.2	44	sse.	1.3	0.6			2			0	0		Prof. P. Monte.
Rome	29.72	754.8	29.89	759.1	85.6	29.8	30	s.	12.5	5.6			0			0	0		Prof. P. S. Ferrari.
Lecce	29.63	752.5	29.87	758.6	85.8	29.9	27	ese.	8.1	3.6			0			0	0		Prof. C. de Giorgi.
Cosenza	29.00	736.6	29.85	758.2	85.3	29.6	72	sw.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari	29.61	752.1	29.80	756.8	82.2	27.9	58	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.66	753.4	29.90	759.5	81.7	27.6	51	ene.	6.9	3.1			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.83	757.6	29.87	758.7	83.1	28.4	48	s.	20.6	9.2			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.38	746.3	29.88	759.0	80.1	26.7	69	w.	1.8	0.8			0			0	0		Prof. T. Brioschi.
Stelvio	22.19	563.5			54.5	12.5	59	w.			2		4			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.24	564.8			53.4	11.9	80	e.			2		10			0.248	6.3	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.88	758.9	29.90	759.4	61.8	16.6	97	ese.	16.8	7.5			10			0	0	covered	
Hiroshima, I. M. Obs'y					76.2	24.6	84	wsw.	2.6	1.2		0	2 ck			0	0	clear	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.70	754.4	29.87	758.7	78.0	25.6	75	s.	7.8	3.5		0	7 s			0	0	cloudy	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.71	754.7	29.91	759.6	76.7	24.8	86	sw.	2.7	1.2			9 s			0	0	cloudy	S. Takehayashi.
Nemuro	30.09	764.3	30.15	765.8	59.5	15.3	93	se.	9.0	4.0		10	0			0	0	cloudy	
Niigata	29.81	757.2	29.84	757.9	75.7	24.3	90	se.	1.4	0.6			10 ck			0.155	3.9	covered	M. Morita.
Nobiru	29.88	758.9	29.89	759.3	68.5	20.3	88	s.	7.0	3.1			10 s			0.065	1.6	covered	H. Midzushina.
Osaka																			
Sapporo					66.0	18.9	85	se.	7.2	3.2			10			0	0	covered	
Tokei Obs'y, Yeddo	29.84	757.9	29.92	759.9	73.2	22.9	94	ssw.	5.8	2.6		2 cs	6 ks		ssw.	0	0	cloudy	The Staff.
Wakayama	29.85	758.2	29.90	759.4	77.2	25.1	75	ssw.	6.0	2.7		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	30.08	764.0	30.27	768.8	69.6	20.9	55	se.	19.5	8.7		0	4 k;ks			0.01	0.3	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.76	603.6	29.98	761.6	59.2	15.1	88	ne.				7 c;ck	0	n.		0.197	5.0	cloudy	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.01	762.2	60.8	16.0	89	ne.			1	3 c	2 k	sw.	s.	0.039	1.0	½ cloudy	Prof. M. Leal.
Mazatlan	29.76	755.9	30.02	762.4	77.0	25.0	93	ene.	0	0		1 cs	1 k			0	0	hazy	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.6	30.21	767.4	54.5	12.5	75	calm	0	0		0	0			0	0	fine	The Staff.
Morelia	24.21	615.0	30.22	767.5	58.6	14.8	50	se.			1	1	2	s.	s.	0	0	clear	M. Tena, M. D
Orizaba	26.15	664.2	30.13	765.3	59.2	15.1	83	calm	0	0		0	0			0	0	foggy	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.03	610.3	30.02	762.5	59.5	15.3	89	w.			1	2 c	0	e.		0.020	0.6	clear	M. Y. de Leon, M. E
Puebla, Catholic Institute	23.46	595.8	30.23	767.7	51.8	11.0	76	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.30	617.2	30.22?	768.9?	60.8	16.0	70	e.					10		e.	0	0	covered	G. Barroeta, M. D.
Zacatecas	22.74	576.2	30.32	770.9	60.0	15.6	72	se.	4.0	1.8		3 s	0			0.182	4.6	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.71	754.6	29.71	754.6	68.7	20.4		n.			2					0.157	4.0		
Groningen	29.63	752.7	29.69	754.1	71.8	22.1		nnw.			1					0	0		
Helder	29.69	754.2	29.69	754.2	64.0	17.8		sw.			1					0.079	2.0		
Hellevoetsluis	29.69	754.2	29.69	754.2	72.3	22.4	74	calm			0					0.012	0.3		
Utrecht	29.68	753.8	29.72	755.0	68.7	20.4	72	ssw.			1		8			1.091	27.7	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.53	750.0	29.59	751.6	66.9	19.4	87	sse.	7	3			10			0.224	5.7	raining	
Brono	29.62	752.3	29.66	753.3	78.1	25.6	41	sse.	9	4			7			0	0		
Christiania	29.58	751.4	29.72	754.9	79.5	26.4	59	wsw.	4	2			5			0.039	1.0		
Gjæsvær	29.89	759.1	29.91	759.7	46.4	8.0		w.			6		4						
Lodingen	29.76	755.8	29.80	757.0	59.9	15.5	58	nne.			4		6			0	0		
PORTUGUESE.																			
Angra, Azores					70.2	21.2	91	wnw.	11.2	5.0			6			0	0		Dr. J. A. Sampaio.
Campo Major	29.04	737.7	30.02	762.4	74.3	23.5	34	nnw.	4.9	2.2			5			0.130	3.3		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.10	764.5	30.19	766.7	73.0	22.8	56	sw.	8.7	3.9			7			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.76	756.0	30.11	764.9	69.4	20.8	47	nnw.	13.6	6.1			5			0	0		The Staff.
Ponta Delgada, Azores	30.19	766.9	30.26	768.7	71.6	22.0	75	nw.	8.7	3.9			3			0	0		
Saint Paul de Loando	29.84	758.0	30.05	763.2	70.7	21.5	82	wsw.	1.3	0.6			0			0	0		
Serra da Estrella	25.30	642.7	30.04	763.0	48.0	8.9	82	nnw.	17.4	7.8			8			0.638	16.2		
RUSSIAN.																			
Akmolinski	28.75	730.3	29.77	756.1	78.8	26.0	40	ene.	4	2		0	5 k			0	0	light clouds	Major K. Lasarew.
Archangel	29.87	758.8	29.89	759.3	63.1	17.3	87	wnw.	18	8			10			0	0		Capt. Sseliwerstow.
Astrakhan	29.98	761.4	29.89	759.3	87.3	30.7	37	se.	11	5		0	0			0	0		Capt. Wisganow.
Barnaul	29.35	745.6	29.83	757.6	72.9	22.7	66	nw.	4	2			5			0.197	5.0		Meteorological Obs'y.
Dorpat	29.78	756.5	30.01	762.3	86.2	30.1	46	se.	7	3		0	4 k			0	0		Observatory.
Ekaterinburg	28.95	735.2	29.85	758.2	82.6	28.1	34	nw.	9	4		0	5 k;ks			0	0		Meteorological Obs'y.
Irkutsk	28.49	723.6	30.08	764.0	67.8	19.9	56	sse.	2	1		ck;cs	7 s			0	0		
Kasan	29.67	753.5	29.91	759.8	88.5	31.4	36	calm	0	0		0	3 k			0.039	1.0		Observatory.
Kertch	29.69	754.2	29.71	754.7	83.7	28.7	76	n.	9	4		0	7 ks			0	0		Lagorio & Sastyres.
Kieff	29.19	741.4	29.80	756.9	69.6	20.9	83	wsw.	9	4		cs	9 ks;n			0.043	1.1	light rain	Observatory.
Lugan	29.61	752.1	29.80	757.0	86.5	30.3	36	e.	22	10			9			0	0	light clouds	Meteorological Obs'y
Moscow	29.47	748.6	29.91	759.6	88.0	31.1	39	calm	0	0			3 ks						Meteorological Obs'y.
Nikolaiev	29.74	755.4	29.81	757.2	86.0	30.0	59	s.	13	6		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.56	750.9	29.71	754.5	79.2	26.2	82	ne.	9	4			10 n			0.106	2.7	raining	Physical Observatory
St. Petersburg	30.04	762.9	30.05	763.3	78.4	25.8	39	n.	4	2		0	1 k			0	0		Central Physical Obs'y
Semipalatinsk	29.19	741.5	29.81	757.1	82.0	27.8	25	n.	13	6			3			0	0		Major Lasarew.
Tashkend, Laboratory	28.19	716.0	29.65	753.0	87.1	30.6	43	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.38	720.8	29.68	753.9	98.8	37.1	24	e.	2	1		0	0			0	0		Physical Observatory
Vladivostock	29.01	752.1	29.68	753.8	63.3	17.4	99	calm	0	0			10 n						
Warsaw	29.37	746.1	29.76	756.0	89.8	32.1	35	sse.	9	4		0	8 k;ks						Astronomical Obs'y
Wilna	29.48	748.9	29.87	758.8	86.2	30.1	52	se.	2	1			4			0.039	1.0		Berg, Assistant.
Yeniseisk	29.70	754.4	29.98	761.6	57.9	14.4	95	w.	4	2			4			0.024	0.6		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.64	752.8	29.74	755.4	78.8	26.	67	s.	3.1	1.4			3						Antonio Rave, Director.
Bilbao, Met. Obs'y	29.92	760.0	29.98	761.5	73.4	23.0	62	nw.	2.5	1.1		2	5	nw.		0.154	3.9	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.03	686.6	29.91	759.7	64.4	18.0	62	sw.	5.4	2.4			7			0.307	7.8	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.77	705.3	29.94	760.5	68.0	20.0	43	nw.	19.9	8.9		0	1			0.028	0.7	light clouds	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director.
Santiago, Met. Obs'y	29.10	739.2	29.98	761.6	64.9	18.3	64	w.	11.9	5.3			8			0.039	1.0	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.																			Benito Vines, S. J.
Manilla, Philippine Islands	29.69	754.2	29.75	755.7	78.2	25.7	89	ssw.	14.3	6.4			10 n		sw.	0.524	13.3	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.6	30.08	764.1	71.4	21.9	66	wnw.	13.6	6.1		0	1		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.00	762.0	30.09	764.3	81.7	27.6	86	calm	0	0		5 cs	0	s.		0.020	0.5	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.50	749.3	29.64	752.8	76.3	24.6	92	sw.	7.2	3.2			10 kn		sw.	0.36	9.1	raining	José L. Yrastorza.
SWEDISH																			
Haparanda	29.92	760.0	29.96	761.0	58.3	14.6	91	se.			2		10			0	0		
Umea	29.91	759.6	29.96	760.9	67.3	19.6	76	sw.			4		6			0	0		
Hernosand	29.84	757.8	29.89	759.1	68.0	20.0	71	s.			4		5			0	0		
Stockholm	29.79	756.7	29.97	761.1	75.6	24.2	47	sse.			2		0			0	0		
Wisby	29.84	757.8	29.89	759.3	77.4	25.2	56	ssw.			2		0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Sub-series.																			
Upsala	29.84	758.0	29.93	760.2	78.4	25.8	46	s.	11.2	5.0			6	w.		0	0		S. G. Fineman.
SWISS.																			
Geneva	28.45	722.6	29.84	757.8	67.5	19.7	60	wnw.			3					0	0	covered	The Observatory
SCOTTISH.																			
Monach Lt			29.26	743.2	58	14.4	94	sw.			4		10			0.1	3.	overcast	J. Youngclause.
North Unst			29.41	747.0				s.			6								
TURKISH.																			
Constantinople			29.82	757.5	85.8	29.9	47	s.	6	2.5			1		n.	0	0		The Observatory.
Valona			30.02	762.4	83.8	28.8		s.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.85	758.1	82.9	28.3	58	w.			1	0	1 k			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.24	768.1	30.32	770.1	70	21.1	66	ne.	2	0.9		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.36	745.7	30.00	762.0	65	18.3	73	s.	12	5.4		5 cs	0	sw.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.08	637.0	29.82	757.4	56	13.3	51	ne.	3	1.3		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.25	692.1	29.98	761.5	53	11.7	80	ne.	6	2.7			10 s		w.	0.07	1.8	cloudy	B. O. Lenoir.
Atlanta, Georgia	29.07	738.4	30.22	767.6	71.0	21.7	76	e.	6	2.7		0	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	30.29	769.4	30.30	769.6	70	21.1	90	ne.	8	3.6		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.07	763.8	30.26	768.6	73.0	22.8	79	ne.	4	1.8		0	1 s			0	0	clear	John Healy.
Baltimore, Maryland	30.26	768.6	30.31	769.9	73	22.8	82	n.	3	1.3		0	0			0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.30	769.6	30.32	770.1	67.2	19.6	89	e.	4	1.8			10 s			0.03	0.8	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.38	720.8	29.92	760.0	56	13.3	86	nw.	6	2.7		0	0			0.32	8.1	clear	A. Pritchard.
Benton, Fort, Montana	27.26	692.4	29.97	761.2	56	13.3	74	ne.	8	3.6		0	9 s		nw.	0	0	cloudy	G. W. Davis.
Behring Island, Behring Sea	29.87	758.7	29.89	759.2	45.6	7.6		sw.	17	7.6			10 s			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.18	715.8	29.90	759.4	55	12.8	86	nw.	12	5.4		0	0			0.31	7.9	clear	Cyrus Cramer.
Block Island, Rhode Island	30.30	769.6	30.33	770.4	67.1	19.5	84	calm	0	0		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.20	690.9	29.92	760.0	65	18.3	65	calm	0	0		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.16	766.1	30.31	769.9	70.0	21.1	70	calm	0	0		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.96	761.0	30.00	762.0	79.1	26.2	91	s.	8	3.6		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.46	748.3	30.19	766.8	67.6	19.8	61	e.	5	2.2		9 cs;k	0	sw;s		0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.09	713.5	30.03	762.7	48	8.9	71	w.	4	1.8		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	30.00	762.0	30.28	769.1	68.5	20.3	65	s.	3	1.3		1 c	0	nw.		0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.76	755.9	30.15	765.8	72.8	22.7	77	calm	0	0		4 ck	0		sw.	0	0	fair	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.24	691.9	29.83	757.7	78	25.6	43	w.			1	2 ck	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.27	768.8	30.29	769.4	73	22.8	90	e.	8	3.6		c	3 k		e.	0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.27	768.8	30.30	769.6	71.0	21.7	82	e.	9	4.0		0	fg.			0	0	clear	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.16	766.1	30.18	766.6	77	25.0	76	ne.	3	1.3		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.16	740.7	29.96	761.0	68.6	20.3	67	s.	16	7.2		6 c	3 s	sw.	s.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.12	765.0	30.17	766.3	74	23.3	82	n.	9	4.0		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.39	746.5	30.22	767.6	71.0	21.7	66	ne.	5	2.2		6 k	4 ks	w.	w.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.43	747.5	30.23	767.8	68.0	20.0	78	calm	0	0		1 cs	sk.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.23	615.4	29.92	760.0	39.5	4.2	76	n.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.21	741.9	29.90	759.4	68.4	20.2	75	s.	10	4.5		8 k	0	sw.		0.26	6.6	cloudy	J. Mitchell.
Chincoteague, Virginia	30.27	768.8	30.29	769.4	74	23.3	84	e.	4	1.8		0	hz.			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.52	749.8	30.16	766.1	68.2	20.1	73	e.	3	1.3		3 c	0			0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.46	748.3	30.18	766.6	65	18.3	73	se.	6	2.7		2 c	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.25	717.5	30.01	762.2	68	20.0	93	se.	2	0.9			10 s		s.	0.85	21.6	cloudy	L. Dorman.
Columbus, Ohio	29.32	744.7	30.16	766.1	66	18.9	73	e.	8	3.6		9 cs	0	e.		0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.10	713.7	29.98	761.5	66	18.9	90	se.	16	7.2			10 s		s.	0.65	16.5	cloudy	W. W. McConlhe.
Custer, Fort, Montana	26.92	683.8	29.94	760.5	51	10.6	86	n.	6	2.7		0	0			0	0	clear	V. Verge.
Davenport, Iowa	29.28	743.7	29.91	759.7	67	19.4	90	se.	14	6.3			10 s		w.	0.35	8.9	cloudy	R. R. Martin.
Davis, Fort, Texas	25.24	641.1	29.88	758.9	69	20.6	55	n.	3	1.3		0	8 ks			1.23	31.2	cloudy	J. Williams.
Dayton, Washington T'y	28.24	717.3	29.95	760.7	57.5	14.2	58	ne.	5	2.2		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.51	647.9	29.93	760.2	48.0	8.9	80	s.	4	1.8		2 c	0	w.		0.35	8.9	clear	G. W. Scott.
Decatur, Texas																			D. J. Carr.
Delaware Breakwater, Del.	30.28	769.1	30.30	769.6	69	20.6	84	ne.	8	3.6		0	hz.			0	0	clear	A. Schneider.
Denison, Texas	29.29	744.0	30.07	763.8	69.3	20.7	100	ne.	8	3.6			10 n			0.40	10.2	light rain	J. McGlone.
Denver, Colorado	24.91	632.7	29.92	760.0	56.0	13.3	67	s.	1	0.4		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.07	738.4	29.95	760.7	62	16.7	87	w.	6	2.7			10 s		w.	1.20	30.5	cloudy	F. W. Conrad.
Detroit, Michigan	29.41	747.0	30.10	764.5	69.4	20.8	76	se.	8	3.6		6 cs	0	w.		0	0	fair	G. F. R. Wappenhans.
Dodge City, Kansas	27.54	699.5	30.04	763.0	64.0	17.8	78	ne.	3	1.3		0	6 ks		n.	0	0	fair	W. M. Mattingly.
Dubuque, Iowa	29.15	740.4	29.84	757.9	67.8	19.9	81	sw.	4	1.8			10 s		w.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	28.90	734.0	29.62	752.3	60	15.6	93	sw.	12	5.4			10 n		sw.	0.29	7.4	light rain	N. B. Conger.
Eagle Pass, Texas	29.19	741.4	29.98	761.5	76.1	24.5	76	se.	4	1.8		0	c			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.34	643.6	29.89	759.2	41	5.0	70	n.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.19	766.8	30.25	768.3	67.0	19.4	63	n.	2	0.9		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.31	693.7	29.95	760.7	63	17.2	63	n.	4	1.8		5 k	0	n.		0	0	fair	W. J. Cundall.
El Paso, Texas	26.26	667.0	29.86	758.4	72	22.2	55	ne.	3	1.3		6 k	0			0	0	fair	J. F. Marshall.
Erie, Pennsylvania	29.47	748.5	30.18	766.6	66	18.9	68	s.	7	3.1		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.16	740.7	29.80	756.9	63	17.2	90	s.	18	8.0			10 s		s.	0	0	threatening	C. Dill.
Fredericksburg, Texas	28.30	718.8	30.00	762.0	74	23.3	87	s.	7	3.1			10 ks		s.	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.03	762.7	30.08	764.0	81	27.2	82	s.	12	5.4		9 cs	1 k		s.	0.45	11.4	threatening	E. O'C. MacInerney.
Grand Haven, Michigan	29.28	743.7	29.93	760.2	63.0	17.2	90	se.	5	2.2			10 s		sw.	0.95	24.1	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.31	642.9	29.88	758.9	75.8	24.3	48	nw.	7	3.1		0	2 s			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.24	768.1	30.26	768.6	70.0	24.4	85	e.	20	8.9		9 k	0	s.		0	0	cloudy	R. M. Crawford.
Helena, Montana	25.88	657.3	29.94	760.5	51	10.6	66	sw.	4	1.8		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.10	739.1	30.08	764.0	73.0	22.8	79	n.	12	5.4			10 s			0.02	0.5	cloudy	J. W. Byram.
Huron, Dakota	28.57	725.7	29.89	759.2	58.2	14.6	90	w.	13	5.8		3 k	0	nw.		inap.	inap.	clear	S. W. Glenn.
Indianapolis, Indiana	29.29	744.0	30.06	763.5	70	21.1	71	se.	6	2.7		7 c;cs	0	w.		0	0	fair	O. Schutze
Indianola, Texas	30.02	762.5	30.06	763.5	81.4	27.4	85	s.	9	4.0		8 ck	0	sw.		0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.86	733.0	29.98	761.5	75	23.9	85	e.	7	3.1		7 cs	0			0	0	fair	J. P. Sherry.
Jacksonville, Florida	30.14	765.5	30.18	766.6	78	25.6	82	calm	0	0		0	0			inap.	inap.	clear	J. W. Smith.
Keogh, Fort, Montana	27.58	700.5	29.99	761.7	50	10.0	80	n.	1	0.4		5 c	0			0	0	fair	W. B. Stockman.
Keokuk, Iowa	29.31	744.5	29.94	760.5	66.5	19.2	86	sw.	12	5.4		9 k	0	sw.		0.64	16.3	cloudy	F. Z. Gosewisch
Key West, Florida	30.10	764.5	30.12	765.0	85.0	29.4	72	ne.	3	1.3		0	0			0.82	20.8	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.25	768.3	30.27	768.8	73.0	22.8	84	e.	9	4.0		hz.	0			0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.22	742.2	30.22	767.0	67.3	19.6	81	ne.	2	0.9		0	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.05	737.9	29.80	756.9	67	19.4	73	sw.	4	1.8		2 c	3 s	s.		0.23	5.8	fair	S. C. Emery.
La Mesilla, New Mexico	26.09	662.7	29.83	757.7	63.5	17.5	57	calm	0	0		0	1 s			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.17	740.9	30.03	762.7	67	19.4	78	nw.	2	0.9			10 s			0.40	10.2	cloudy	A. W. Browne.
Lewiston, Idaho	29.15	740.4	29.96	761.0	63.0	17.2	52	calm	0	0		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.81	757.2	30.12	765.0	72	22.2	97	calm	0	0			10 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.67	753.6	30.06	763.5	60.2	15.7	81	sw.	1	0.4			10 s			0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.57	751.1	30.12	765.0	69	20.6	76	s.	4	1.8		9 c	sk.	w.		0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.62	752.3	30.29	769.4	69.5	20.8	70	calm	0	0		1 ck	0			inap.	inap.	clear	W. R. Bushby.
Macon, Fort, North Carolina	30.21	767.3	30.22	767.6	77	25.0	85	ne.	14	6.3		0	2 k		ne.	0	0	clear	F. P. Chaffee.
Madison, Wisconsin	28.85	732.8	29.83	757.7	65	18.3	90	s.	7	3.1			10 s		sw.	inap.	inap.	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.66	651.8			48	8.9	80	n.	8	3.6		1 k	3 s		n.	inap.	inap.	fair	H. W. Dodge.
McKavett, Fort, Texas	27.85	707.4	30.05	763.3	70	21.1	97	ne.	9	4.0			10 s			inap.	inap.	cloudy	J. E. Thatcher.
Marquette, Michigan	29.06	738.1	29.77	756.1	66	18.9	73	s.	16	7.2			10 s		sw.	0.02	0.5	cloudy	J. Gilligan.
Memphis, Tennessee	29.80	756.9	30.12	765.0	73	22.8	76	se.	5	2.2		3 cs	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.12	739.6	29.85	758.2	65	18.3	93	s.	8	3.6			10 s		sw.	0.05	1.3	threatening	W. Line.

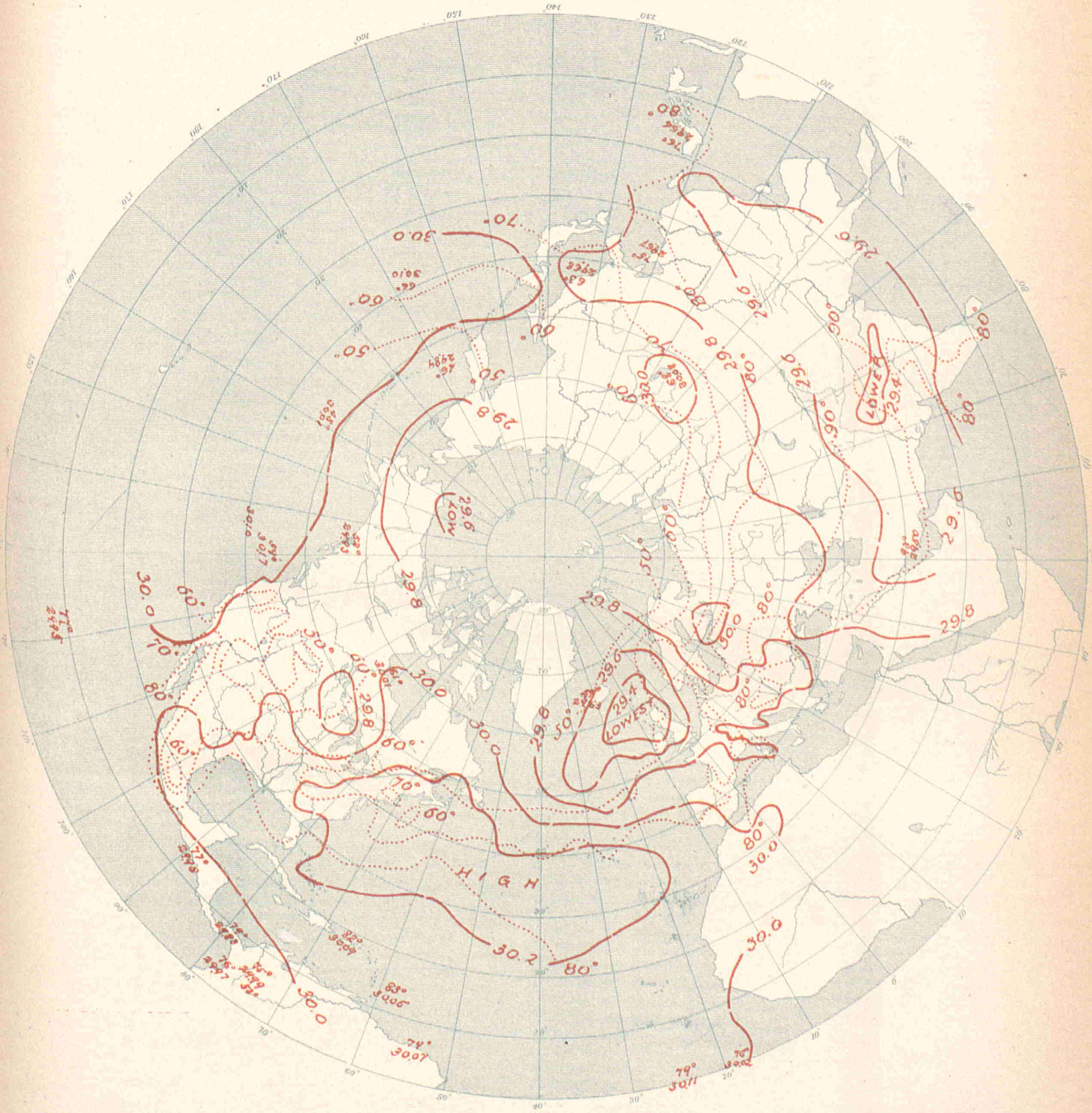
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.79	680.5	29.98	761.5	52	11.1	74	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.13	765.3	30.17	766.3	77	25.0	79	nw.	3	1.3	.....	0	9 s	.....	nw.	0	0	cloudy	C. A. Read.
Montgomery, Alabama	29.96	761.0	30.18	766.6	69.8	21.0	79	ne.	3	1.3	.....	1 c	0	.....	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.79	731.3	29.75	755.6	58	14.4	86	nw.	16	7.2	.....	6 cs	0	nw.	.....	1.71	43.4	fair	H. Bessant.
Morgantown, W. Virginia	29.26	743.2	30.26	768.6	67.0	19.4	90	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.19	614.4	30.26	768.6	46.0	7.8	80	nw.	9	4.0	.....	3 c	0	nw.	.....	0	0	clear	J. G. Linsley
Nashville, Tennessee	29.64	752.8	30.16	766.1	68.5	20.3	76	e.	2	0.9	.....	8 cs	fg.	w.	.....	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.22	767.6	30.33	770.4	65	18.3	100	calm	0	0	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	J. H. Sherman.
New London, Connecticut	30.31	769.9	30.36	771.1	68	20.0	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.09	764.3	30.14	765.5	78.5	25.8	78	e.	1	0.4	.....	2 c	sk.	.....	.....	0.15	3.8	clear	L. Dunne.
Newport, Rhode Island	30.28	769.1	30.33	770.4	69.0	20.6	90	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. McGillivray.
New York, New York	30.16	766.1	30.33	770.4	65	18.3	100	e.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	J. B. Merrill.
Norfolk, Virginia	30.26	768.6	30.29	769.4	75	23.9	90	e.	3	1.3	.....	0	9 s	.....	e.	0	0	cloudy	H. L. Kemp.
North Platte, Nebraska	27.23	691.6	30.03	762.7	53.6	12.0	84	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.90	759.4	29.94	760.5	54.0	12.2	86	calm	0	0	.....	0	sk.	.....	calm	0	0	dense smoke	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.56	750.8	29.58	751.3	32.0	0.0	100	ene.	9	4.0	.....	.....	10s;fg	.....	e.	0	0	cloudy	P. H. Ray.
Omaha, Nebraska	28.86	733.0	29.99	761.7	61.5	16.4	80	nw.	4	1.8	.....	7 c	0	sw.	.....	0.31	7.9	fair	A. Pollak.
Oswego, New York	29.90	759.4	30.22	767.6	68.0	20.0	66	s.	9	4.0	.....	5 c	0	w.	.....	0	0	fair	S. W. Beall.
Palestine, Texas	29.55	750.6	30.09	764.3	76.0	24.4	94	s.	10	4.5	.....	.....	10 n	.....	s.	0.09	2.3	thnd'r storm	L. M. Pindell.
Pensacola, Florida	30.13	765.3	30.16	766.1	77.1	25.1	85	s.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	30.23	767.8	30.33	770.4	72	22.2	82	ne.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.97	456.4	29.75	755.6	26	— 3.3	84	sw.	10	4.5	.....	0	1 k	.....	sw.	inap.	inap.	clear	L. M. Dey.
Ploche, Nevada	24.14	613.1	29.87	758.7	58.7	14.8	30	s.	1	0.4	.....	0	0	.....	.....	c	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.43	747.5	30.22	767.6	63.8	17.7	84	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Poplar River, Montana	27.95	709.9	.....	.....	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.16	766.1	30.16	766.1	78.0	25.6	85	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. Hermann.
Port Huron, Michigan	29.42	747.3	30.08	764.0	70.1	21.2	69	s.	10	4.5	.....	3 c	0	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	30.23	767.8	30.28	769.1	69.5	20.8	68	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.88	758.9	29.95	760.7	60.0	15.6	81	nw.	1	0.4	.....	0	hz.	.....	.....	0	0	dense haze	M. L. Hearne.
Prescott, Arizona	24.88	631.9	29.86	758.4	61	16.1	58	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.27	768.8	30.30	769.6	70.5	21.4	76	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.13	765.3	30.14	765.5	78	25.6	82	e.	6	2.7	.....	4 c	1 k	calm	calm	0	0	fair	W. J. Evans.
Red Bluff, California	29.62	752.3	29.98	761.5	66.0	18.9	52	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.78	756.4	30.01	762.2	79	26.1	74	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.56	750.8	30.21	767.3	65	18.3	73	sw.	10	4.5	.....	5 c	0	.....	.....	0	0	fair	E. W. McGann.
Roseburg, Oregon	29.43	747.5	29.97	761.2	55	12.8	80	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	J. J. Naury.
Sacramento, California	29.90	759.4	29.97	761.2	59.5	15.3	75	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.45	748.0	30.03	762.7	69.0	20.6	90	sw.	9	4.0	.....	1 c	9 s	.....	sw.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	28.91	734.3	29.75	755.6	59	15.0	93	sw.	8	3.6	.....	1 k	0	nw.	.....	0.50	12.7	clear	P. F. Lyons
St. Vincent, Minnesota	28.86	733.0	29.70	754.4	56	13.3	93	w.	17	7.6	.....	1 cs	7 s	.....	w.	1.21	30.7	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.72	653.3	29.90	759.4	61	16.1	34	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.33	745.0	30.01	762.2	77.5	25.3	85	se.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	T. J. Kenan.
San Diego, California	29.97	761.2	30.04	763.0	61.3	16.3	83	n.	3	1.3	.....	.....	fg.	.....	w.	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.47	748.5	30.13	765.3	67.8	19.9	70	s.	10	4.5	.....	2 c	0	.....	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.29	769.4	30.32	770.1	70.0	21.1	94	se.	2	0.9	.....	.....	fg.	.....	calm	0	0	dense fog	B. A. Blundon.
San Francisco, California	29.96	761.0	30.03	762.7	56	13.3	86	w.	7	3.1	.....	0	fg.	.....	sw.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.37	593.6	29.87	758.7	60.5	15.8	51	e.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	30.10	764.5	30.20	767.1	73.5	23.1	86	n.	6	2.7	.....	8 ck	0	.....	.....	inap.	inap.	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.47	672.3	29.98	761.5	49	9.4	86	w.	4	1.8	.....	3 k	0	nw.	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.89	759.2	30.12	765.0	73	22.8	97	se.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	E. N. Meekins.
Sill, Fort, Indian Territory	28.82	732.0	30.02	762.5	65.5	18.6	60	ne.	8	3.6	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	T. Cleary.
Silver City, New Mexico	24.38	619.2	29.84	757.9	64	17.8	52	w	2	0.9	.....	2 ck	3 ks	calm	calm	0	0	fair	J. B. Wallace.
Sitka, Alaska	29.87	758.7	29.93	760.2	51.5	10.8	88	calm	0	0	.....	.....	10 n	.....	.....	0.93	23.6	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.59	751.6	30.05	763.3	74.5	23.6	85	e.	6	2.7	.....	.....	10 s	.....	e.	0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.17	766.3	30.20	767.1	80	26.7	67	e.	9	4.0	.....	1 cs	4 k	.....	e.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.98	710.7	29.96	761.0	53	11.7	74	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.33	745.0	29.99	761.7	69.5	20.8	78	s.	4	1.8	.....	2 c	5 s	w.	sw.	0.03	0.8	fair	T. B. Jennings.
Springfield, Massachusetts	30.21	767.3	30.34	770.6	65.0	18.3	93	ne	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	T. S. Outram.
Springfield, Mo.	28.66	728.0	30.06	763.5	68	20.0	84	calm	0	0	.....	1 c	9 ks	.....	w.	inap.	inap.	cloudy	J. B. Marbury.
Starkville, Miss.	29.69	754.1	30.16	766.1	77	25.0	74	sw.	2	0.9	.....	3 ck	1 k	.....	.....	0	0	fair	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.16	715.3	29.94	760.5	52	11.1	93	nw.	8	3.6	.....	0	0	.....	.....	0.50	12.7	clear	W. Burrows
Stockton, Fort, Texas	27.04	686.8	29.98	761.5	64.5	18.1	100	s.	12	5.4	.....	.....	10 s	.....	e.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	30.25	768.3	30.30	769.6	69.8	21.0	77	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. Liebmann
Toledo, Ohio	29.43	747.5	30.10	764.5	71	21.7	62	s.	7	3.1	.....	7 c	0	w.	.....	0	0	fair	A. Buell.
Tucson, Arizona	27.59	700.8	29.91	759.7	74	23.3	76	e.	2	0.9	.....	1 c	0	.....	.....	0.10	2.5	clear	J. L. Whiteside.
Umatilla, Oregon	29.58	751.3	29.94	760.5	58	14.4	47	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	66.8	19.3	44	n.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.91	759.7	30.15	765.8	71	21.7	90	se.	4	1.8	.....	8 ck	0	se.	.....	0	0	cloudy	H. P. Brisbane.
Visalia, California	29.58	751.3	29.95	760.7	63	17.2	68	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washakie, Fort, Wyoming	24.03	625.6	29.96	761.0	39.8	4.3	67	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.19	766.8	30.30	769.6	72.9	22.7	77	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.24	666.5	30.00	762.0	56.5	13.6	62	calm	0	0	.....	0	5 k	.....	n.	0	0	fair	F. W. Brandenburg.
Williamsport, Pa.	29.70	754.4	30.28	769.1	62	16.7	84	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.16	766.1	30.21	767.3	76	24.4	82	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.65	651.5	29.87	758.7	59	15.0	22	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.09	728.7	29.96	761.0	60	15.6	75	w.	6	2.7	.....	0	0	.....	.....	0.16	4.1	clear	J. H. Attfeld.
Yuma, Arizona	29.73	755.1	29.87	758.7	82.6	28.1	56	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	53.0	11.7	73	calm	0	0	.....	2c;cs	4ks;s	nw.	w.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.04	763.0	30.05	763.3	83	28.3	87	e.	.....	.....	.....	5 ck	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.94	760.5	29.97	761.2	76	24.4	95	s.	4	1.8	.....	.....	10 n	.....	s.	0.50	12.7	raining	J. I. Plume.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	82.8	28.2	66	nnw.	1	0.4	.....	0	0	.....	.....	0	0	fine	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	78	25.6	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa	29.93	760.2	30.01	762.2	82	27.8	70	ne.	5	2.2	.....	3 ck	1 s	ne.	e.	0	0	.....	F. M. Everett.
Paramaribo, S. A.	30.00	763.5	30.07	763.8	79	26.1	82	se.	.....	.....	2	5 k	0	se.	.....	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.43	747.5	29.99	761.7	75	23.9	94	calm	.....	.....	0	3 c	7 ks	calm	calm	0.06	1.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	92	[illegible]	.....	.....	4	2 ck	1 ks	se.	ne.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.04	763.0	30.07	763.8	81	27.2	74	calm	0	0	.....	2 c	0	.....	.....	0.29	7.4	fair	Robert Mason.
York Factory, B. A.	29.95	760.7	30.01	762.2	61.0	16.1	82	n.	10	4.5	.....	2 c	2 s	ne.	n.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S Alert, Saint Helena Island, Africa	30.24	768.1	69.5	20.8	75	ese.			3-5		5							showery.
H. M. S. Amethyst, Montevideo, Uruguay	30.19	766.8	42.5	5.8	87	sw.			6		2	s.				3	sw.	d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.81	757.2	91	32.8		var.			2-3		3	sse.						d. clouds.
H. M. S. Boudicca, Simon's Bay, Cape Colony	30.14	765.5	65	18.3		nw.			1-2		10							showery.
H. M. S. Champion, Yokohama, Japan			70	24.4	100	sse.			1		8							d. clouds.
H. M. S. Comus, N. 48° 30′, E. 171° 20′	30.03	762.7	48	8.9	85	sse.			2-3		10					3	sw.	foggy.
H. M. S. Diamond, S. 9° 25′, E. 157° 04′	29.88	758.9	78.5	25.8	92	sse					10					1	sse.	showery.
H. M. S. Dido, N. 14° 20′, W. 60° 29′	30.07	763.8	80	26.7		ne.			3-4		3	ne.				3	ne	d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.23	767.8	80	26.7	80	calm			0		3	sse.						d. clouds.
H. M. S. Druid, N. 30° 17′, W. 66° 57′	30.26	768.6	82	27.8	83	ese.			1		4	ne.				2	ese.	d. clouds.
H M. S. Eclipse, S 2° 25′, E. 41° 48′	30.00	762.0	78	25.6		se.			4		3					6	ese.	d. clouds.
H. M. S. Emerald, N. 1° 00′, W. 18° 15′	30.12	765.0	76	24.4	95	ese.			3		2	ese.				2	ese.	d. clouds.
H. M. S. Espiegle, S. 15° 59′, E. 167° 12′	29.88	758.9	77	25.0	69	ne.			2		1							squally.
H. M. S. Fantome, Saint Lucia, Jamaica, W. I	30.06	763.5	80	26.7		calm			0		4							d. clouds.
H. M. S. Fawn, S. 34° 48′ E. 19° 46′	29.94	760.5	61.5	16.4	83	w.			6		4	nw.				5	w.	d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.08	764.0	59	15.0	87	se.			1		10							overcast.
H. M. S. Griffon, N. 51° 30′ W. 55° 46′	30.19	766.8	54	12.2	86	calm			0		0							blue sky.
H. M. S. Iris, Port Said, Egypt	29.97	761.2	79	26.1	69	nnw.			1		1					1	wnw.	blue sky.
H. M. S. Iron Duke, N. 46° 13′, E. 140° 30′	29.99	761.7	60	15.6	94	ene.			1-2		10					2	e.	overcast.
H. M. S. Kingfisher, N. 44° 20′, W. 124° 30′	30.00	762.0	55	12.8		nne.			1		9					4	nne.	foggy.
H. M. S. Lark, S. 10° 21′, E. 161° 51′	29.95	760.7	76.3	24.6	93	e.			2		10					2	ne.	raining.
H. M. S. Liffey, Coquimbo, Chili	30.11	764.8	54.5	12.5		calm			0		5	n.						d. clouds.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	29.88	758.9	80.0	26.7	80	calm			0		3							d. clouds.
H. M. S. Minotaur, Alexandria, Egypt	29.89	759.2	77.5	25.3	72	nw.			2		2					2	w.	d. clouds.
H. M. S. Nelson, S. 36° 20′ E. 174° 48′	29.68	753.9	58	14.4	87	sw.			1		1	w.						blue sky.
H. M. S. Northampton, Halifax, Nova Scotia	30.15	765.8	67	19.4	76	nw.			1		0							blue sky.
H. M. S. Orion, N. 36° ′,33 W. 1° 11′	29.97	761.2	72.5	22.5		sw.			5		0					3	wsw.	blue sky.
H. M. S. Orontes, N. 34° 28′, E. 31° 25′	29.88	758.9	77.5	25.3	93	w.			2		3	wsw				1	wsw.	d. clouds.
H. M. S. Pegasus, N. 1° 17′. E. 103° 51′	29.71	754.6	84.5	29 2	75	nw.			1		1							blue sky.
H. M. S. Rambler, James Bay, Saint Helena Is'd	30.18	766.6	69	20.6	95	ese			3		8	ese.						squally.
H. M. S. Rocket, Vancouver Island, B. C.	29.90	759.4	55	12.8	93	calm.			0		1							blue sky.
H. M. S. Sappho, Tahiti, Soc ety Islands, Oceania	29.95	760.7	77.5	25.3		e.			2		3	e.						d. clouds
H. M. S. Swiftsure, S. 33° 45′ W. 52° 25′	30.17	766.3	46.5	8.1	92	sw.			6-7		9	sw.				7	sw.	squally.
H. M. S. Sylvia, Maldonado, Uruguay	30.14	765.5	44.5	6.9	90	wsw.			6		7							showery.
H. M. S. Tamar, N. 33° 13′, E. 31° 38′	29.90	759.4	69.5	20.8	100	wsw.			2		1					1	wnw.	blue sky.
H. M. S. Tenedos, N. 49° 28′ W. 57° 57′	30.20	767.1	54	12.2	79	w.			1		1							blue sky.
H. E. S. Tourmaline, N. 34° 37′, E. 30° 00′	29.89	759.2	76	24.4		calm			0		0							blue sky.
H. M. S. Triumph, S. 42° 00′, W. 75° 07′	30.28	769.1	48	8.9	77	sse.			1		2	ssw.				2	ssw.	d. clouds.
H. M. S. Woodlark, Bushire, Persia	29.40	746.7	92.5	33.6	70	sw.			4-5		0					4	w.	squally.
H. M. S. Zephyr, N. 30° 34′, E. 127° 20′	29.82	757.4	80	26.7	95	se.			2		3					1	se.	d. clouds.
Portuguese Naval.																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.08	764.0	77.0	25.0	96	ne.			1		7					2	ne.	gloomy.
Tamega, Macao, China	29.62	752.3	84.2	29.0	85	e.			3		3		e.	5 h'r	5 h'r			d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.10	764.5	78	25.6	86	ne.	1	0.4			10		ne.	0	0			cloudy.
Navy Yard, Portsmouth, N. H.	30.32	770.1	66	18.9	74	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.81	757.2	74.5	23.6	93	w.			2		8		w.	sll't	sll't			cloudy.
Adams, Mare Island, Cal	30.09	764 3	59	15.0		sw.			2		8			0	0	sm'h		cloudy.
Alaska, Callao, Peru	30.00	762.0	60	15.6	88	calm			0		8			0	0	sm'h		cloudy.
Alert, N. 43° 09′, W 131° 10′*	30.02	762.5	59	15.0	76	nw.			1		0			0	0	sm'h	ne.	clear.
Alliance, Boston, Mass	30.31	769.9	70	21.1	80	n.			1		2			0	0			clear.
Ashuelot, Yokohama, Japan*	29.82	757.4	75	23.9	95	ssw.			1		8		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.09	764.3	72	22.2	95	nw.	5	2.2			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.27	767.8	77	25.0	91	calm	0	0			fg			0	0			dense fog.
Constellation, N. 39° 28′, W. 73° 34′*	30.28	769.1	75	23.9	90	calm			0		5		e.			sm'h		fair.
Enterprise, Provincetown, Mass *	30.29	769.4	69	20.6	90	n.			1		0					sm'h		clear.
Essex, S. 43° 44′, W. 82° 49′	30.14	765.5	49	9.4	85	nne.			1		8		nne.			sm'h	nne.	overcast.
Franklin, Norfolk, Va	30.30	769.6	75	23.9	86	se.	2.1	0.9			8		sse.	0	0			fair.
Galena, N. 35° 06′ E. 18° 54′	29.97	761.2	81	27.2	74	w.			1		0					sm'h		clear.
Independence, Mare Island, Cal	30.01	762.2	57	13.9	87	w.			3		8			0	0			cloudy.
Iroquois, Mare Island, Cal	29.97	761.2	61	16.1	77	wsw.			2		10							cloudy.
Kearsage, Norfolk, Va	30.29	769.4	72	22.2	100	ese.			1		2		ese.					foggy.
Lackawanna, Callao, Peru*	30.02	762.5	61	16.1	82	se.			1		10							cloudy.
Lancaster, Alexandria, Eyypt*	29.89	759.2	83	28.3	71	nw.			2		0			0	0			clear.
Marion, S. 34° 54′, W. 56° 13′	30.17	766.3	43	6.1	100	sw.			6		5		wsw.			r'gh	wsw.	squally.
Michigan, Detroit, Michigan	30.02	762.5	69	20.6	75	s.			1		2		s.					fair.
Minnesota, Newport, R. I.	30.35	770.9	65	18.3	94	calm	0	0			2							foggy.
Monocacy, Chefoo, China	29.67	753.6	75	23.9	90	wnw.			1		8		calm			sm'h		fair.
New Hampshire, Newport, R. I.	30.32	770.1	68	20.0	90	n.			1		2					sm'h		foggy.
Nipsic, Alexandria, Egypt*	29.86	758.4	80	26.7	74	nnw.			3		2					sm'h		clear.
Onward, Callao, Peru†	30.16	766.1	58	14.4	94	sse.			1		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.82	757.4	76	24.4	91	wsw.			2		8		w.					fair.
Passaic, Washington, D. C.	30.33	770.4	70	21.1	90	calm			0		0							clear.
Pensacola, Panama, Panama*	29.83	757.7	79	26.1	86	nw.	3	1.3			5		w.	0.09	2.3	sm'h		fair.
Portsmouth, N. 36° 18′ W. 1° 32′*	29.93	760.2	75	23.9	90	wsw.			4		0					sm'h	w.	clear.
Powhatan, Pensacola, Florida	30.15	765.8	80	26.7	82	calm			0		8							fair.
Quinnebaug, Alexandria, Egypt	29.90	759.4	80	26.7	87	nw.			2		0					sm'h		clear.
Ranger, Mare Island, Cal	30.03	762.7	59	15.0	82	wsw.			2		10		sw.	0	0			cloudy
Richmond, Yokohama, Japan*	29.84	757.9	77	25.0	95	w.			1		10		sw.	0	0			cloudy.
Saratoga, N. 36° 20′, W. 1° 53′	29.94	760.5	72	22.2	71	w.			5		2		w.	0	0	mod.	w.	fair.
St. Louis, League Island, Pa	30.52	775.2	69	20.6	85	ne.			2		2			0	0			clear.
Swatara, Yokohama, Japan*	29.76	755.9	77	25.0	86	ssw.			1		8		calm			sm'h		fair.
Tennessee, Provincetown, Mass	30.37	771.4	75	23.9	81	n.	3	1.3			0			0	0			clear.
Vandalia, Portsmouth, N. H*	30.31	769.9	69	20.6	80	nnw.			2		0							clear.
Wabash, Boston, Mass	30.24	768.1	70	21.1	90	calm	0	0			0			0	0			clear.
Wachusetts, Highfield Harbor, Alaska†	30.20	767.1	55	12.8	93	e.			1		10					sm'h		rainy.
Wyoming, Port Royal, S. C*	30.17	766.3	73	22.8	90	n.	14	6.3			5		ne.	0	0			fair.
Yantic, Provincetown, Mass†	30.42	772.7	69	20.6	80	n.			1		0							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 55° 30′, W. 14° 07′.*	29.45	748.0	54	12.2	79	wnw.			6		10		w.	inap.	inap.	4	nw.	overcast.
S. S. Grecian, N. 55° 23′, W. 7° 51′*.	29.28	743.7	64	17.8		wsw.			5		9		wsw.	2 h'r	2 h'r	sm'h		squally
S. S. Nova Scotian, Halifax, Nova Scotia	30.21	767.3				calm			0		0							clear.
S. S. Waldensian, N. 53° 50′, W. 19° 11′*	29.72	754.9	54	12.2		se.			5		10		wsw.	1 h'r	1 h'r	long	nnw.	rainy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, Liverpool, Eng *†	29.50	749.3				nw.			5		5		ssw.	1 h'r	1 h'r			showery.
S. S. Lord Gough, N. 40° 05′ W. 70° 06′	30.24	768.1	62	16.7		nne.			3		0			0	0	sm'h		fair.
AMSTERDAM LINE.																		
S. S Jason, N. 49° 55′ W. 19° 01′	29.47†	748.5†	58.1	14.5		wnw.			5		5 k					5	wsw.	raining.
ANCHOR LINE.																		
S. S. Alexandria, N. 36° 52′ W. 1° 49′	29.95	760.7	70	21.1		nw.			5		1		nw.	0	0	4	nw.	clear.
S. S. Assyria, N. 40° 42′, W. 50° 49′*†	30.38	771.6	75	23.9		wsw.			4		5		wsw.	0	0	mod.	wsw.	
S. S. Bolivia, N. 40° 23′. W. 67° 22′	30.28	769.1	58	14.4		ene.			2		0			0	0	sm'h		clear.
S. S. Devonia, N. 42° 23′, W. 56° 27′†.	30.37	771.4	65	18.3		calm			0		10		wnw.			mod.	w.	hazy.
S. S. Ethiopa, N. 55° 52′, W. 13° 42′	29.42	747.3	54.5	12.5	93	nw.			6		9		n.	8 h'r	8 h'r	h'vy	nnw.	showery.
S. S. Galatia, Suez Canal, Egypt.†	29.99	761.7	85.3	29.6		nne.			6					0	0			
S. S. India, N. 38° 08′, W. 14° 01′*	30.10	764.5	73	22.8	85	nw.			2		3					h'vy	nw.	fair.
ATLAS LINE.																		
S. S. Ailsa, N. 34° 45′ W. 73° 50′†	30.12	765.0	72	22.2	90	e.			3		8		ne.	0	0	mod.	e.	cloudy.
S. S. Alvo, Savanilla, U. S. C.	29.97	761.2							1		2			0	0			
S. S. Antillas, Jeremie, Hayti, W. I*†	30.20	767.1				calm			0									
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 43° 10′, W. 65° 55′†	30.18	766.6	61	16.1		nw.			1		0			0	0	long	se.	clear.
BRITISH METEOROLOGICAL OFFICE.																		
Aukland, S. 1° 40′, W. 26° 04′	30.08	764.0	77	25.0	90	e.			5		3							blue sky.
S. S. Basil, N. 21° 11°, W. 22° 47′	30.10	764.5	73	22.8	81	ese.			3		6							d. clouds.
S. Baroda, S. 34° 56′, E. 21° 15′	29.86	758.4	60.7	15.9	88	wnw.			8		2							blue sky.
S. S. City of Agra, N. 1° 31′, W. 24° 48′	30.09	764.3	78.2	25.7	95	se.			5		2							blue sky
S. S. Glencairn, N. 41° 10′, W. 32° 16′	30.23	767.8	73	22.8	90	w.			5		8							misty.
S. S. Gordon Castle, N. 39° 18′, W. 18° 33′	30.18	766.6	78.5	25.8	54	w.			3		2							blue sky
S. S. Markland, S. 36° 34′, W. 112° 56′	29.81	757.2	50.8	10.4	96	wsw.			6		7					5	wsw.	misty.
Bkt. May Hulse, N. 3° 55′, W. 23° 48′	30.07	763.8	78	25.6	69	se.			4		4							d. clouds.
S. S. Oamarn, S. 35° 26′, E. 20° 46′	29.94	760.5	60.5	15.8	85	wnw.			7		4							squally.
S. S. Pole Star, N. 28° 30′ W. 40° 26′.	30.26	768.6	80	26 7	91	ese.			2		2							blue sky.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, Guaymas, Mexico †*	29.95	760.7	83	28.3	74	e.			2		2		e.					clear.
CUNARD LINE.																		
S. S. Marathon, N. 42° 20′, W. 65° 50′	30.24	768.1	57	13.9		nne.			1		1			0	0	sm'h	w.	fine.
S. S. Scythia, Off Mine Head, Ireland	29.55	750.6	63	17.2	83	wsw.			4		9		w.	0	0	mod.	wsw.	overcast.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. Ville de Marseilles, Marseilles, France*†	29.80	756.9	81	27.2		se.			6		6		se.	1 h'r	1 h'r			
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, Gluckstadt, Germany†	29.77	756.1				ssw.			2		3		sw.	0	0			
S. S. Cimbria, N. 40° 15′, W. 69° 38′	30.33	770.4	62	16.7		ene.			2					0	0	sm'h	ene.	clear.
S. S. Herder, N. 41° 52′, W. 54° 23′	30.17	766.3	78	25.6		ne.			2		5?		ne.	4 h'r	4 h'r	mod.	e.	cloudy?
S. S. Silesia, N 40° 33′, W. 70° 20′†	30.41	772.4				nw.			1		fg			0	0	1		foggy.
S. S Wieland, N. 49° 35′, W. 10° 55′	29.82	757.4	63.5	17.5		w.			6		2		w.	3 h'r	3 h'r	5	w.	stormy.
INMAN LINE.																		
S. S. City of Berlin, N. 40° 30′ W. 72° —′	30.29	769.4				calm			0		8		w.	0	0	sm'h		hazy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 0° 04′, W. 28° 00′*†	30.25	768.3	78	25.6		sse.			5		1		s.	1 h'r	1 h'r	sm'h		clear.
MALLORY LINE.																		
S. S. Colorado, N. 29° 34′, W. 79° 56′†.	30.15	765.8	81	27.2		n.			4		3		n.	0	0	mod.	n.	fair.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 36° 19′, W. 59° 46′*†	30.33	770.4	81	27.2	82	ssw.			2		1		sw.	0	0	long	w.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 49° 10′, W. 20° 16′†	29.74	755.4	61	16.1	100	se.; sw.			4		5			4 h'r	4 h'r	mod.	ne.	
S. S. Hermod, N. 49° 40′, W. 1° 00′*†	29.48	748.8	68.0	20.0		wsw.			3		6		sw.	0	0	mod.	w.	threatening.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 1° 10′, W 40° 50′	29.61	752.1				se.			4		4		se.	0	0	mod.	se.	clear.
NATIONAL LINE.																		
S. S. Denmark, N. 47° 26′, W. 30° 05′	29.82	757.4	59	15.0		wsw.			5		0			1 h'r	1 h'r	h'vy	wsw.	clear.
S. S. England, N. 40° 45′, W. 65° 41′	30.23	767.8				nnw.			3		0			0	0	sm'h		clear
S. S. Erin, N. 49° 47′ W. 26° 45′	29.63	752.6	54	12.2		wsw.			5		5		wsw.	2 h'r	2 h'r	r'gh	wnw.	squally.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Saratoga, Sagua la Grande, Cuba, W. I. †	30.34	770.6	86	30.0	80	calm			0		0			2 h'r	2 h'r			clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. Alexandria, N. 25° 09′, W. 80° 02′†	30.29	769.4	82	27.8	87	ne.			2		5		s.	1 h'r	1 h'r	mod.	ne.	showery.
NEW YORK HERALD WEATHER SERVICE.																		
S.S. State of Nebraska. N. 44° 05′, W. 50° 04′†	30.22	767.6	54	12.2		wsw.			2							sm'h		fine.
NORTH GERMAN LLOYD.																		
S. S. America, N. 49° 51′, W. 17° 13′*	29.95	760 7	62.6	17.0		sw.			5		9		nw.	3 h'r	3 h'r	long	wnw.	covered.
S. S. Gen. Werder, N. 49° 43′, W. 17° 10′	29.74	755 4				sw.			6		10			0	0	mod.	sw.	covered.
S. S. Habsburg, N. 40° 12′, W. 62° 54′	30.23	767.8	69.8	21.0		ene.			3		8		ene.	6 h'r	6 h'r	sm'h		cloudy.
S. S. Hohenzollern, N. 47° 11′, W. 19° 50′*	29.73	755.1	58.1	14 5		wnw.			3		9		w.	0	0	mod.	wnw.	cloudy.
S S. Ohio, Bremerhaven, Germany	29.68	753.9				wsw.			1		3		sw.	0	0			fair.
S. S. Salier, N. 42° 05′ W. 41° 05′	30.19	766.8	65.3	18.5		wsw.			6		8		wsw.	0	0	long	w.	cloudy.
S. S. Strassburg, N. 41° 55′, W. 47° 20′	30.17	766.3	86.0	30.0	75	calm			0		10		w.	1 h'r	1 h'r	mod.	wsw.	covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 41° 32′, E. 151° 52′.*†	30.04	763.0	58	14.4	93	ese.			4		10		se.	sh'rs	sh'rs	mod.	s.	misty.
S. S. Belgic, San Francisco, California†	30.08	764.0	60	15.6	76	w.			3		2		w.					clear.
S. S. Gaelic, N. 38° 32′, W. 126° 32′†	30.14	765.5	56	13.3	87	nw.			3		10		n.			mod.	w.	hazy.
S. S. Oceanic, N. 24° 47′, E. 119° 17′*	29.57	751.1	83	28.3	87	n.			5		8		se.			sm'h		fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 37° 45′, W. 74° 37′†	30.25	768.3				e.			3		4		sse.	0	0		e.	clear.
S. S. City of Columbus, Savannah, Ga †	30.12	765.0				nne.			3		4		ne.	0	0			
S. S. Seminole, N. 38° 10′, W. 73° 53′†	30.37	771.4	74	23.3	90	se.			1		1		sw.	0	0	sm'h	se.	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, Columbia River, Oregon†	29.95	760.7	60	15.6	88	nw.			2		10							threatening.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 35° 39′, W. 121° 16′ †	30.00	762.0	58	14.4	87	se.			2		10		se.			sm'h		cloudy.
S. S. Dakota, New Tacoma, Wash. Ter.*†	30.01	762.2	75	23.9	81	calm			0		0							clear.
S. S. Idaho, Sitka, Alaska†	29.98	761.5	52	11.1	86	calm			0		10							foggy.
S. S. State of California, N. 45° 13′, W. 124° 10′†	30.02	762.5	56	13.3	93	nnw.			3		8		nw.			mod.	nw.	overcast.
S. S. Victoria, N. 42° 07′, W. 124° 43′ †	30.01	762.2	49	9.4	100	w.			1		8			0	0	sm'h		foggy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	30.32	770.1	53	11.7	93	sw.			1		0			0	0			clear.
S. S. City of New York, S. 9° 58′, W. 168° 27′†.	29.88	758.9	82	27.8	75	e.			5		5		e.	0	0	sm'h		squally
S. S. City of Pekin, N. 47° 52′ W. 163° 12′†	29.91	759.7	48	8.9	100	sw.			1		10			0	0	sm'h		misty.
S. S. City of Rio de Janeiro, N. 15° 14′, W. 95° 14′*†	30.20	767.1	82	27.8	87	n.			5		6		n.	1 h'r	1 h'r	mod.	n.	clearing.
S. S. City of Sydney, S. 34° 15′, E. 171° 05′†	29.97	761.2	57	13.9	69	ssw.			4		5?		sw.	0	0	long	sw.	cloudy?
S. S. City of Tokio, N. 38° 40′, E. 165° 39′†	30.10	764 5	66	18.9	89	ssw.			3		10		s.	5 h'r	5 h'r			foggy.
S. S Colon, Aspinwall, Panama†	29.95	760.7	80	26.7		ne.			1		9		ne.	3 h'r	3 h'r	mod.		cloudy
S. S. Colima, N. 13° 30′, W. 89° 18′†	29.99	761.0	77	25.0	86	ne.			3		10		calm	0	0	mod.	sse.	fair.
S. S Grenada, N. 37° 03′, W. 122° 02′†	30.01	762.2	57	13.9	?	sw.			1		0			0	0	light	wnw.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, Off St. Martins, W. I.	29.92	760.0	83	28.3		ene.			3		10			0	0	sm'h		overcast.
S. S. Bermuda, Basse Terre, W. I†	30.15	765.8	84	28.9		ese.			1		5?		e.	light	light	g'tl	se.	cloudy.?
RED STAR LINE.																		
S. S. Belgenland, N. 48° 15′, W. 21° 23′†	29.84	757.9	60	15.6	88	wsw.			5		2?		w.	0	0	mod	w.	overcast.?
S. S. Nederland, N. 45° 50′, W. 29° 54′†	29.96	761.0	63	17.2	94	wsw.			5		10		w.	2 h'r	2 h'r	mod.	w.	covered.
S. S. Rhynland, Jersey City, N. J.	30.29	769.4	71	21.7	85	se.			2				se.	0	0			foggy.
S. S. Vaderland, N. 50° 30′, W. 1° 00′†	29.61	752.1	61	16.1	82	wsw.			3		10		wsw.	0	0	sm'h	wsw.	fair.
ROTTERDAM LINE.																		
S. S. P. Caland, N. 45° —′ W. 35° —′			62.2	16.8	81	wsw.			3		7 k n		sw.			mod.	w.	rainy.
S. S. W. A. Scholten, New York, N. Y.	29.86	758.4	74.5	23.6	71	se.			6		6		e.	0	0	sm'h	w.	fair.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.19	741.4	67	19.4		sse.			3		2			0	0			clear.
S. S. State of Georgia, N. 54° 28′, W. 14° 39′†	29.52	749.8	56	13.3		nnw.			5		8		nw.	0	0	mod.	n.	cloudy.
S. S. State of Indiana, N. 41° 20′, W. 58° 13′†	30.40	772.1	66	18.9		ene.			3		8		ne.	16 h'r	16 h'r	sm'h		light rain.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.08	764.0	84.2	29.0		sw.			1		2		sw.	0	0			clear.
WARREN LINE.																		
S. S. Iowa, Off Salter's Light, Ireland*†	29.60	751.8	59	15.0		wsw.			6		9		wsw.	1 h'r	1 h'r	mod	wsw.	cloudy.
WHITE STAR LINE.																		
S. S. Baltic, N. 51° 17′ W. 10° 46′†	29.70	754.4	58	14.4	88	nw.			4		8		nw.	2 h'r	2 h'r	3	w.	showery.
S. S. Britannic, N. 40° 30′, W. 70° 15′†	30.34	770.6	63	17.2	94	calm			0		0					sm'h		blue sky.
S. S. Celtic, Liverpool, Eng†	29.55	750.6	62	16.7	83	s.			4		10		s.	0	0			cloudy.
S. S. Germanic, N. 49° 38′, W 23° 27′†	29.74	755.4	57	13.9		w.			5		10		w.			long	w.	misty.
S. S. Republic, Liverpool, Eng†	29.57	751.1	66	18.9	79	sw.			5		5		sw.	12 h'r	12 h'r			d clouds.
WINSOR LINE.																		
S. S. Catherine Whiting, Fire Island, N. Y†	30.24	768.1	70	21.1		calm								0	0	long	se.	foggy.
MISCELLANEOUS.																		
Schr. Ajax, N. 28° 28′ W. 94° 22′†	30.24	768.1				calm			0		4		se.	0	0	mod.	se.	fair.
Bk. Alpha, New York, N. Y†	30.23	767.8	70	21.1		calm			0		10			0	0			foggy.
Schr. Annie Lewis, Aransas Pass, Texas†	30.16	766.1	83	28.3		sse.			3		5?		sse.	0	0	short	sse.	cloudy.?
Bk. Anna Thorman, S. 39° 55′, E. 17° 07′	29.71	754.7	57.6	14.2	85	wsw.			8		10 n		w.	sh'rs	sh'rs	high	w.	rainy.
S. S. Antonio Lopez, N. 26° 03′, W. 30° 41′	30.21	767.3	76	24.4	81	ne.			4		1			0	0	mod.		clear.
Bk. Argonaut, N. 53° 27′, W. 26° 05′*†	29.54	750.3	56.1	13.4		ssw.			4		10		sw.	5 h'r	5 h'r	cross	var.	cloudy.
Schr. Asa Eldridge, Off Punta Rassa, Fla†	30.20	767.1				e.			3		2		se.	0	0			fair.
S. S. Burswell, N. 40° 48′, W. 46° 00′*†	30.29	769.4	83	28.3		sw.			3		2			0	0	sli't	wnw.	very fine.
Bk. Cato, N. 60° 40′, W. 4° 35′*†	29.65	753.1				se.			2		2		ese.	0	0	sm'h	ese.	clear.
Bk. Celestina, S. 32° 22′ W. 36° 07′*†	30.20	767.1				nne.			4		4		n.	0	0	mod	nne.	fair.
Schr. C. R. Flint, Cedar Keys, Florida†	30.26	768.6	82	27.8		w.			1		8		sw.	2 h'r	2 h'r			fair.
S. Cornelius, N. 39° 16′, W. 51° 00′*†	30.50	774.7	77	25.0		wsw.			2		3		wsw.	0	0	sm'h	wsw.	clear.
S. S. D. J. Foley, N. 32° 32′, W. 74° 29′†	30.13	765.3				ene.			3		10		ese.	2 h'r	2 h'r	mod.	s.	raining.
Schr. Edith R. Seward, Ponce, Porto Rico, W. I*†	30.12	765.0	89	31.7		ne.			1		1		e.	0	0			clear.
S. E. J. Spicer, New York. N. Y*	29.92	760.0	72	22.2		e.			3		fg		e.	0	0			foggy.
Bk. E. L. Pettingill, N. 40° 36′, W. 135° 15′†	30.30	769.6				ssw.			1		0			0	0	sm'h		clear.
S. Enoch Train, N. 39° 34′, W. 51° 02′*†	30.32	770.1				sw.			2		0			0	0	light	nw.	clear.
Bk. Essex, S. 38° 25′, E. 9° 01′*†	29.98	761.5	55	12.8		w.			5		5?		wsw.	2 h'r	2 h'r	h'vy	wnw.	clear.?
Bk. Freya, N. 39° 44′, W. 70° 41′						nne.			3		0			0	0	sm'h		fine.
S. Grecian, Hong Kong, China*†	29.60	751.8	84	28.9		e.			6		7		ene.	1 h'r	1 h'r			fair.
Bk Hattie G. McFarland, N. 39° 15′, W. 74° 20′*†	30.15	765.8	70	21.1		ne.			3		5		ne.	0	0	long	s.	hazy.
S. Hedwig, N. 39° 39′, E. 19° 08′	29.90	759.5	78.4	25.8	78	ne.			1		0			0	0	sm'h		
Bk. Horace Scudder, N. 27° 29′, W. 57° 48′†	30.26	768.6	82	27.8		sse.			2		5		e.	5 h'r	5 h'r	mod.	e.	blue sky.
S. Ivy, N. 8° 45′ W. 123° 57′†	30.15	765.8	77	25.0		nw.			1		10		se.	5 h'r	5 h'r	mod.	sse.	cloudy.
S. Ismir, S. 42° 40′ E. 67° 50′†	29.82	757.4				wsw.			6		10			3 h'r	3 h'r	h'vy	w.	dull.
Schr. Jennie N. Huddell, Boston, Mass†	30.45	773.4	74	23.3	95	calm			0		0			0	0			hazy.
Bk. Johanne, N. 51° 50′, W. 29° 55′*†	29.46	748.3	55	12.8		sw.			6		5?		sw.	0	0	h'vy	ssw.	clear.?
Schr. John L. Thomas, N. 20° 20′, W. 84° 00′*†	30.14	765.5				ene.			3		1		ne.	0	0	mod.	ese.	clear.
Bg. John Wesley, N. 25° 41′ W. 72° 28′†	30.04	763.0				ese.			2		1		ese.	1 h'r	1 h'r	long	se.	clear.
Bk. Joseph A. Ropes, N. 0° 30′, W. 26° 35′*†	30.11	764.8	79	26.1	86	se.			5		1		se.	0	0	mod.	se.	fair.
Bkt. Josephine, N. 34° 52′ W. 73° 17′†	30.26	768.6	80	26.7	66	e.			4		10		e.	0	0	sm'h		cloudy.
Bkt. Kryolith, N. 46° 10′, W. 50° 43′*†	30.09	764.3				w.			2		2					light	sw.	hazy.
S. S. Lamperts, N. 41° 17′, E. 9° 26′*	29.79	756.7	74.5	23.6	81	ese.			5		0							blue sky.
Light House Tender, Laurel, Off Cape San Blas, Fla†	30.20	767.1	83	28.3		ne.			1		6		ne.	0	0			fair.
Bk. Liberia, N. 11° 25′, W. 24° 25′.*..	29.96	761.0	80	26.7	86	nw.			2		5		w.	0	0		sw.	
S. S. Madrid, N. 38° 45′, W. 68° 17′*†	30.40	772.1	72	22.2		n.			4		0			0	0	sm'h		clear.
S. S. Malabar, N. 41° 22′, W. 128° 14′*†	30.02	762.5				n.			3					0	0	mod.	n.	
S. Orealla, N. 36° 09′, W. 56° 04′*	30.21	767.3	81	27.2		calm			0		1			0	0	sm'h		clear.
S. Paramita, S. 8° 30′, W. 109° 30′†	29.87	758.7	80	26.7		se.			5		1		ese.	0	0	long	ese.	clear.
S. S. Ponca, N. 30° 55′, W. 70° 12′†	30.25	768.3	89	31.7		sse.			1		1		se.	0	0	mod	se.	clear.
S. S. Sunbeam, Odessa, Russia	29.78	756.4	78	25.6	69	ssw.			3		1		sw.					blue sky.
S. Sovereign of the Sea, N. 1° 30′, W. 27° 43′*†	29.98	761.5	81	27.2	74	se.			4		4		se.	0	0	sm'h	se.	clear.
Bg. Teneriffe, Cardenas, Cuba. W. I	30.07	763.8				se.			1									
Bk. Truro, N. 42° 06′, W. 37° 12′*†	30.16	766.1				sw.			3		2			0	0	mod.	nw.	hazy.
U. S. F. C. S. S. FishHawk, Washington, D. C†	30.46	773.7	76	24.4	90	nnw.			2		9		calm	0	0			cloudy.
S. S. Victoria J Peed, N. 11° 12′, W. 75° 16′						se.			2		5							
Schr. Viola Reppard, Baltimore, Md†	30.11	764.8	80	26.7		ssw.			2		8			0	0			
Bk Wm. Wilcox, S. 35° 10′, W. 53° 20′*†	30.16	766.1	51	10.6		sw.			5		5		sw.	2 h'r	2 h'r	short	w.	squally.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 17, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.01	762.3	79.9	26.6	71	s.			4		1			0	0	very fair	Bouvier.
Algiers			29.57	761.2	78.1	25.6	67	ne.			1		0			0	0	clear	Nicolas.
La Calle			29.90	759.5	82.4	28.0	61	nnw.			1		2			0	0	fair	Fonfrède.
Tunis			29.90	759.4															Jacques.
Saida			30.05	763.3	89.2	31.8	28	sw.			2		0			0	0	clear	Perès.
Tebessa			29.97	761.2	86.7	30.4	27	nw.			1		0			0	0	clear	Derché.
Gerlville					95.4	35.2	5	nnw.			1		0			0	0	clear	Louchamp.
Laghouat			30.08	763.9	98.6	37.0	36	ne.			2		0			0	0	clear	Abraham.
Biskra			29.98	761.6	99.3	37.4	19	nw.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.37	771.4	30.46	773.7	49.4	9.7	76	se.	2	0.9			10			0.01	0.3	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.18	741.2	29.70	754.3	82.4	28.0	43	sw.			5		4			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.95	735.4	29.67	753.7	81.0	27.2	57	ene.	8.7	3.9			2			0.520	13.2	lightning	Dr. Wierzbiski.
Eperies	28.85	732.7	29.67	753.5	84.2	29.0	55	se.			2		9 k			0.181	4.6		Julius Mikolik.
Gratz	28.50	723.8	29.67	753.7	78.4	25.8	83	nw.			6		7			0	0	thunder	Andreas Rospini.
Hermannstadt	28.36	720.4	29.70	754.4	79.0	26.1	61	se.			2		8			0.008	0.2		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.58	725.9	29.89	759.3	59.5	15.3	93	w.			1		10			0.252	6.4	thnd'er st'rm	The Staff.
Lemberg	28.80	731.4	29.73	755.1	78.6	25.9	59	e.			2		4			0	0		Dr. T. Stanecki.
Pola	29.61	752.2	29.72	754.9	76.1	24.5	96	e.			3		7			0	0		I. R. Hydrographic Office.
Szathmar	29.23	742.5	29.67	753.7	81.0	27.2	56	se.			2		3			1.260	32.0		Joseph Midlinszay, S. J.
Szegedin	29.40	746.8	29.66	753.4	83.8	28.8	41	s.			1		4			0	0		Karl Stancel.
Trieste	29.74	755.4	29.84	758.0	78.4	25.8	56	sw.			1		4			0	0		Royal Academy.
Vienna	29.07	738.3	29.76	755.8	69.8	21.0	68	w.			5		8			0.051	1.3		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.53	750.0	29.62	752.3	63.5	17.5	50	ssw.	19	8.5			3			0	0	blue sky	W. Boswell
Armagh, Observatory	29.36	745.7	29.59	751.6	55.8	13.2	90	sse.	15	6.7			10					raining	S. Call.
Bidston, Liverpool Obs'y					65.2	18.4	58	ssw.	16	7.2			3					d. clouds	John Hartnup.
Bolton, Sharples	29.20	741.7	29.72	754.9	63.8	17.7	61	s.	18	8.0			6					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.34	745.2	29.73	755.1	65.8	18.8	49	sw.			2		4			0.07	1.8	d. clouds	[ton. McLandsborough & Pres-
Bridgetown, Barbadoes	30.00	762.0	30.02	762.5	83.0	28.3	67	ne.			1		2					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.81	757.2	71.0	21.7	67	sw.			2.0		7					d. clouds	John McLaren.
Chatham, School M. E.	29.75	755.6	29.88	758.9	65.0	18.3	70	sw.			2		4					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.55	750.6	29.77	756.1	56.7	13.7	95	s.			5		10					rain & fog	The Staff.
Fort Napier, Natal	27.80	706.1	30.02	762.5	68.3	20.2	40	ne.			3		3					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.67	753.6	29.89	759.2	81.0	27.2	86	n.			1		6					raining	Sergt. John Robinson.
Gibraltar, Mediterranean	29.96	761.0	30.02	762.5	80.0	26.7	74	e.			1		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.44	747.8	29.65	753.1	61.4	16.3	61	s.			5		7					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.69	754.1	29.86	758.4	66.1	18.9	62	sw.			2		6					d. clouds	The Staff.
Guernsey	29.60	751.8	29.90	759.4	60.5	15.8	80	sw.			2		10					showery	A. Collenette, F. M. S.
Kew, Observatory	29.83	757.7	29.86	758.4	66.2	19.0	50	sw.	21	9.4			5					d. clouds	The Staff.
Leicester, Museum	29.54	750.3	29.79	756.7	65.0	18.3	62	sw.			2		8					d. clouds	J. O. Smith.
Malta, Mediterranean	29.88	758.9	29.95	760.7	83.8	28.8	63	w.			2		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.15	765.8	30.20	767.1	86.0	30.0	68	ne.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.27	743.4	29.78	756.4	65.3	18.5	58	s.			6		4					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.62	752.3	29.85	758.2	64.9	18.3	65	ssw.			5		6					squally	The Staff.
Plymouth	29.74	755.4	29.81	757.2	58.1	14.5	91	s.			2		10					raining	John Merrifield.
Sandwick Manse, Orkneys			29.57	751.1	60.2	15.7	72												Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.73	755.1	29.79	756.7	88.4	31.3	49	ssw.			1		1					blue sky	W. H. Lyne.
Sheffield	29.48	748.8	29.75	755.6	70.1	21.2	67	sw.			2		1			0.08	2.0	blue sky	W. F. Cooper.
Silloth Rectory	29.66	753.4	29.09	754.2	63.0	17.2	70	sw.			4		7			0.315	8.0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.75	755.6	61.0	16.1	66	ssw.	9	4.0			8					d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.65	753.1	29.86	758.4	67.4	19.7	48	sw.			3		3					squally	Rev. C. H. Grimms, F. M. S
Truro, Royal Institution	29.74	755.4	29.75	755.6	63	17.2	83	sw.			7		10					raining	W. Newcombe.
Valencia, Observatory	29.48	748.8	29.50	749.3	58.7	14.8	90	s.	26	11.6			8			blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.19	766.8	30.23	767.8	67	19.4	69	sw.	9	4.0		4 c;ck	0	nw.		0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.14	765.5	30.20	767.1	67	19.4	81	s.	4	1.8		3 c	0	s.		0	0	fair	G. A. Blair.
Father Point, Quebec*	30.01	762.2	30.03	762.7	70	21.1	66	sw.	18	8.0		2 c	5 s	calm	calm	0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.04	737.6	29.85	758.2	54	12.2	93	nw.	7	3.1		0	5 ks		nw.	0.340	8.6	fair	James Stewart.
Halifax, N. S*	30.18	766.6	30.30	769.6	66	18.9	81	w.	2	0.9		0	hz.			0	0	hazy	A. Allison.
Kingston, Ontario*	29.72	754.9	30.04	763.0	71	21.7	71	s	16	7.2		0	2 k		s.	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.87	758.7	30.07	763.8	70	21.1	78	s.	12	5.4		3 k	0	w.		0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.27	743.4	29.94	760.5	67	19.4	93	s.	15	6.7		2 k	8 ks	sw.	sw.	0.40	10.2	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.37	746.0	30.04	763.0	67	19.4	95	sw.	7	3.1		4 ck	0			0	0	fair	H. Morgan.
Port Stanley, Ontario	29.40	746.7	30.02	762.5	69	20.6	90	sw.	1	0.4			10 n			0	0	cloudy	M. Payne.
Quebec, Quebec*	29.79	756.7	30.10	764.5	67	19.4	84	calm			0		hz			0	0	hazy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.46	748.3	29.89	759.2	67	19.4	84	calm	0	0			10 s		sw.	inap.	inap.	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.28	743.7	29.97	761.2	67	19.4	90	sw.	20	8.9			10 ks			0.03	0.8	cloudy	
St. Andrews, N. B	30.19	766.8	30.24	768.1	61	16.1	82	calm	0	0		0	0			0	0	clear	
Sydney, C. B*	30.19	766.8	30.25	768.3	68	20.0	70	s.	15	6.7		0	0			0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.66	753.4	30.02	762.5	71	21.7	71	sw.	7	3.1		5 cs	2 s	w.	w.	0	0	fair	Magnetic Observatory.
Yarmouth, N. S*	30.23	767.8	30.30	769.6	62	16.7	93	calm	0	0		3 cs	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N.
Sub-series.																			
Mount Forest	28.65	727.7	30.06	763.5	66.0	18.9	89	w.			3	10kn	0	wnw.		0.237	6.0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	30.11?	764.8?	30 35?	770.9?	67	19.4	64	s.	3	1.3		0	0			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.22	767.6	30.25	768.3	63.0	17.2	82	w.	18.1	8.1		0	1 k			0	0	hazy	John Duthie.
Cape Town, U. G. H. Obs'y	30.28	769.1	30.32	770.1	60.0	15.6	88	nw.	8	3.6		4	2			0.370	9.4		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (Sub-series).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.73	755.2	29.76	755.8	80.1	26.7	88	se.	13.9	6.2			2			0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.67	753.7	29.72	754.9	76.1	24.5	73	e.	12.3	5.5			5						Oversergent Fischer.
Fanöe	29.79	756.6	29.81	757.1	65.7	18.7	81	w.			4		4						Overloerer Lauridsen
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.36	745.7	29.40	746.8	43.2	6.2	78	e.			4		8						A. O. Thorlacius.
Thorshavn	29.42	747.3	29.46	748.2	58.1	14.5	09	w.	9	4			7						Overloerer Bergh.
Vestervig	29.70	754.3	29 79	756.6	63.3	17.4	84	wsw.			4		9						Loerer Oesterbol.
French.																			
Agen, Normal School	29.49	749.0	30.13	765.2	71.2	21.8	62	calm			0		k;kn			0	0		M. Labroue, Director.
Alençon, Normal School	29.48	748.9	30.04	762.9	66.9	19.4	57	sw.			1		kn		n.	0.630	16.0		M. Nicot, Director.
Arras, Engineer School	29.66	753.4	29.91	759.7	63.5	17.5	74	?			1		kn		w.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.90	759.5	29.98	761.5	75.6	24.2	53	nnw.			2		o			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.50	749.2	30.04	763.0	67.1	19.5	51	sw.			1		6		sw.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.72	754.9	29.98	761.4	71.1	21.7	55	sw.			2		8		wsw.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.14	740.1	30.01	762.3	66.9	19.4	77	ssw.			1	0	8 k		sw.	0.488	12.4	very cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.82	757.3	30.07	763.8	68.5	20.3	54	sw.			1		8		w.	0.028	0.7	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.54	750.3	30.08	764.0	68.0	20	47	sw.			1		k		sw.	0.382	9.7		M. Malet, Director.
Brest, Naval Observatory	29.66	753.4	29.91	759.6	63.0	17.2	78	sw.			4		10		sw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.03	762.7	30.10	764.5	67.8	19.9	50	se.			1		5		se.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.65	753.2	29.96	761.0	69.8	21.0	57	calm			0		5			0.197	5.0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.49	749.0	29.98	761.6	71.6	22	50	nnw.			1					0.08	2.		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.72	729.5	30.04	763.0	68.0	20.0	45	w.			1		8			0.571	14.5	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.23	742.4	30.05	763.2	66.9	19.4	54	w.			2		4		w.	0.67	17.		M. de Villemontée, Dir.
Commercy, Normal School	29.18	741.1	30.02	762.5	66.4	19.1	63	wnw.			1		8 kn		wnw.	wnw.	0.295	7.5	very cloudy. Dr. Coulet, Director.
Gap, Normal School	27.43	696.7	29.87	758.6	71.6	22	29	ne.			3	1	3		nw.	0	0		M. Jeanghrard, Director.
Gréasque, du Rhone	28.84	732.4	29.93	760.1	70.2	21.2	45	nw.			4		2		nw.	0.110	2.8		M. Kinn, Director.
Grenoble, Normal School	29.26	743.1	30.01	762.3	63.3	17.4	70	nw.			3		k		ne.	0.205	5.2		M. Ablard, Director.
Guéret, Normal School	28.52	724.4	30.08	763.9	61.9	16.6	53	wsw.			1	0	5 k		wsw.	0	0	cloudy	M. Rivoire, Director.
Lamballe, Normal School	29.52	749.8	29.79	756.6	63.3	17.4	67	ssw.			2		8		ssw.	0.12	3.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.53	750.0	30.08	764.1	68.4	20.2	54	w.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.89	759.2	29.99	761.8	65.8	18.8	66	ssw.			1		1●		s.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.02	737.2	30.06	763.5	66.6	19.2	51	nw.			1	c	5 n	nnw.	nw.	0.378	9.6	fair	M. André, Director.
Mans, Normal School	29.56	750.9	29.86	758.5	68.0	20	49	sw.			1		2		sw.	0.094	2.4	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.08	753.9	29.95	760.6	74.7	23.7	45	nw.			4		3		nw.	0	0		M. Stephan, Director.
Montlouis	24.89	632.1	29.73	755.1	59.4	15.2	57	e.	13.0	5.8			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.87	758.6	29.99	761.7	77.0	25	53	nw.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.24	742.8	30.02	762.4	65.5	18.6	69	w.			1		kn		w.	0.130	3.3		M. Hasse, Director
Nantes, Observatory	29.89	759.3	30.06	763.4	64.0	17.8	66	wsw.			1–3		8 n; kn		wsw.	0.150	3.8		M. Lacroque, Director.
Perpignan, Observatory	29.95	760.8	30.06	763.5	75.9	24.4	42	nw.	9.4	4.2			0			0.366	9.3		Dr. Fines, Director.
Pic-du-Midi, Summit	21.31	541.3			39.4	4.1		w.			1		1		w.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.96	735.6	30.00	761.9	69.8	21	62	s.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.23	640.8			44.6	7.0	80	w.			2		8		w.	0.618	15.7	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.01	762.2	30.04	763.0	73.0	22.8	100	wsw.			1		5		s.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.83	757.6	30.04	762.9	67.6	19.8	65	ssw.			1		8		sw.	0	0	very cloudy	M. Mouillot, Director.
Rodez, Normal School	27.91	708.9	30.01	762.3	63.1	17.3	61	se.			2		10		w.	0.248	6.3	raining	M. Seger, Director.
Rouen, Normal School	29.93	760.1	29.97	761.3	64.0	17.8	58	ssw.			1		5	ssw.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.84	758.0	30.01	762.2	66.7	19.3	47	sw.			1		9		sw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.43	747.4	30.15	765.8	71.2	21.8	50	wsw.			1		5		nw.	0.071	1.8	cloudy	M. Baillaud, Director.
Tours	29.86	758.4	30.04	762.9	69.1	20.6	66	sw.			1		5	sw.	sw.	0.181	4.6	cloudy	M. de Tastes.
Versailles, Observatory	29.52	749.8	30.01	762.3	67.6	19.8	49	w.			1					0	0		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.72	755.0	30.02	762.4	69.6	20.9	52	sw.			1		6		ssw.	0	0		M. Marié Davy, Director
German.																			
Ansbach	28.52	724.4	29.93	760.3	64.0	17.8	79	nw.			2		10	nw.		0.142	3.6		Prof. Jnedt.
Bamberg	29.06	738.2	29.91	759.8	65.7	18.7	80	nw.			1	0	9 k;s		w.	0.315	8.0		Prof. Dr. Roh.
Berlin	29.72	755.0	29.90	759.4	73.4	23.0	66	w.			5		9			0.028	0.7		Prof. Dr. Arndt.
Breslau	29.21	741.9	29.73	755.2	86.2	30.1	39	e.			1		7			0.008	0.2		Royal University Obs'y.
Carlsruhe	29.56	750.8	29.99	761.7	66.9	19.4	75	sw.			4		10	sw.		0	0		Albert Senz.
Cassel	29.17	740.9	29.88	759.0	70.2	21.2	59	nw.			2		8	nw.		0.077	17.2		Dr. H. Möll.
Frankfort-on-the-Main	29.58	751.4	29.94	700.4	70.2	21.2	75	sw.			1		9			0.114	2.9		Physical Society.
Friedrichshafen	28.59	726.1	30.00	761.9	62.2	16.8	80	w.			2		10	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.77	756.1	29.86	758.5	69.8	21.0	70	w.			4		8			0	0		E. Preller.
Kiel	29.80	757.0	29.82	757.4	69.6	20.9	65	w.			4		9			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.45	747.9	29.85	758.3	66.9	19.4	82	nw.			3		10					raining	H. Leppig, Asst.
Magdeburg	29.67	753.5	29.85	758.1	68.5	20.3	74	wnw.			4		10 ks		sw.	0	0		Dr. Assmann.
Memel	29.83	757.6	29.87	758.8	88.9	31.0	37	se.			3	0	2 k						Issermann.
Munich	28.17	715.5	30.03	762.8	64.9	18.3	68	nw.			1		10	w.		0.843	21.4		Dr. C. Lang.
Neufahrwasser	29.78	756.3	29.79	756.7	78.4	25.8	66	ese.			2		8			0	0		A. Lothes.
Neustadt, Palatinate	29.45	747.9	29.97	761.2	66.9	19.4	70	w.			4		6	w.		0.059	1.5		Dicknether.
Stuttgart	29.04	737.6	29.91	759.6	68.0	20.0	68	w.			3		9	nw.		0	0		Prof. Dr. Schoder.
Wustrow	29.79	756.6	29.81	757.2	69.3	20.7	80	wnw.			5		10 s			0.110	2.8		Profs. Brandes & Reimer
Greek.																			
Athens	29.48	748.9			85.8	29 9		sw.			1.5		1			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.42	747.1	29.46	748.4	83.8	28.8	83	wsw.	34.0	15.2			9			0	0	gloomy	
Deesa	28.93	734 9	29.39	746.6	88.3	31.3	62	sse.	10.9	4.9			9	se.	s.	0	0	d. clouds	
Bombay	29.56	750.9	29.60	751.9	76.1	24.5	98	wsw.	26.0	11.6			10		wsw.	4.36	110.7	raining	
Poona, Yarrowda	27.75	704.9	29.61	752.1	74.6	23.7	79	wsw.	21.0	9.4			10		w.	0.08	2.0	overcast	
Trichinopoly	29.47	748.6	29.75	755.5	89.4	31.9	42	wnw.	4.0	1.8			10			0	0	overcast	
Bellary	28.20	716.2	29.64	752.8	86.2	30.1	47	nw.	16.7	7.5			6	wnw.		0	0	d. clouds	
Belgaum	27.17	690.0	29.72	754.6	70.1	21.2	91	wsw.	13.0	5.8			7	ne.	sw.	0.73	18.5	showery	
Lahore	28.59	726.1	29.29	744.0	98.2	36.8	50	calm	0.8	0.4			6			0	0	d. clouds	
Roorkee	28.47	723.1	29.34	745.2	89.2	31.8	74	sw.	1.0	0.4			4			0.80	20.3		
Agra	28.81	731.8	29.36	745.7	91.3	32.9	67	se.	1.8	0.8			3		se.	0.50	12.7	d. clouds	
Nagpur	28.41	721.7	29.44	747.7	83.0	28.3	73	w.	4.4	2.0			9		w.	0	0	gloomy	
Jubbulpore	28.14	714.8	29.48	748.9	78.0	25.6	91	calm	7.3	3.3			10			0.10	2.5	overcast	
Lucknow	29.05	737.9	29.42	747.1	91.1	32.8	62	calm	0.8	0.4			0			0	c	blue sky	
Allahabad	29.05	737.8	29.35	745.6	85.7	29.8	79	ne.	0.9	0.4			10			0.01	0.3	overcast	
Patna	29.23	742.3	29.41	746.9	87.0	30.6	72	e.	5.3	2.4			10	e.	e.	0.02	0.5	overcast	
Hazaribagh	27.41	696.2	29.35	745.6	87.8	31.0	57	ese.	5.1	2.3			10		e.	0	0		
Cuttack	29.33	745.0	29.41	747.0	81.0	27.2	86	wsw.	2.0	0.9			10			0.43	10.9	raining	
Calcutta, Alipore	29.36	745.7	29.38	746.2	83.3	28.5	91	se.	5.0	2.2			9		se.	0.29	7.4	d. clouds	
Dhubri	29.32	744.8	29.44	747.7	83.4	28.6	85	calm	1.0	0.4			10			0.06	1.5	d. clouds	
Chittagong	29.38	746.2	29.47	748.4	81.2	27.3	86	sse.	4.7	2.1			9			0	0	d. clouds	
Sibsagar	29.12	739.5	29.44	747.9	85.3	29.6	81	ne.	1.9	0.8			5	w.	w.	0.51	13.0	d. clouds	
Jeypore	27.99	710.9	29.40	746.7	85.4	29.7	80	ne.	1.9	0.8			9		ne.	0.19	4.8	d. clouds	
Zanzibar, Africa	30.07	763.8			82.1	27.8	51	ese.	7.4	3.3			5		sse.	0	0	d. clouds	
Italian.																			
Udine	29.43	747.4	29.82	757.3	80.2	26.8	54	s.	4.3	1.9			10			0	0		Prof. Giovanni Clodig.
Milan	29.30	744.3	29.80	756.9	80.4	26.9	48	nne.	4.3	1.9			8	nnw.		0.075	1.9		Prof. Schiaparelli.
Padua	29.69	754.2	29.80	756.9	80.2	26.8	50	sse.	8.1	3.6			10	se.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.95	735.2	29.81	757.2	76.3	24.6	34	se.	0	0			3			0	0		Prof. P. F. Denza.
Genoa	29.66	753.4	29.85	758 1	73.4	23.0	67	sw.	5.6	2.5			8	sw.		1.350	34.3		Prof. G. M. Garibaldi.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Mondovi	27.98	710.8	29.82	757.3	71.4	21.9	52	w.			2		1	wnw.		0	0		Prof. D. C. Bruno.
Pesaro	29.78	756.3	29.82	757.5	75.9	24.4	68	sw.	4.9	2.2			10	sw.		0.307	7.8		Prof. Luigi Guidi.
Florence	29.60	751.9	29.85	758.1	77.7	25.4	55	sw.			2		7			0.091	2.3		Prof. Costantino Pitter
Leghorn	29.72	755.0	29.81	757.1	73.0	22.8	69	w.	8.7	3.9			5	w.		0	0		Prof. P. Monte.
Rome	29.70	754.3	29.87	758.6	81.5	27.5	52	sw.	13.6	6.1			4			0.612	0.3		Prof. P. S. Ferrari.
Lecce	29.63	752.5	29.87	758.6	84.2	29.0	38	ssw.	10.5	4.7			4	nw.		0	0		Prof. C. de Giorgi.
Cosenza	29.03	737.4	29.88	759.0	86.4	30.2	73	w.	3.1	1.4			7	w.		0.016	0.4		Prof. D. Conti.
Cagliari	29.75	755.6	29.89	759.3	79.0	26.1	31	nw.			6		1			0	0		Prof. A. Pacinotti.
Palermo	29.70	754.4	29.94	760.5	84.2	29.0	34	ne.	6.3	2.8			1			0	0		Prof. G. Ciacciatore.
Syracuse	29.81	757.2	29.85	758.3	86.5	30.3	47	s.	22.4	10.0			1	s.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.35	745.5	29.85	758.3	76.5	24.7	66	se.	4.9	2.1			10	e.		0	0		Prof. T. Brioschi.
Stelvio	22.19	563.6			46.4	8.0	70	e.			4		10			0.142	3.6	misty	Prof. P. F. Denza.
Valdobbia	22.24	564.8			48.7	9.3	73	n.			2		6			0.016	0.4	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.55	750.6	29.57	751.1	66.8	19.3	95	ssw.	18.0	8.0			10			0.810	20.6	covered	
Hiroshima, I. M. Obs'y					78.2	25.7	78	s.	5.3	2.4		0	0			0	0	clear	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.62	752.3	29.78	756.4	78.2	25.7	78	ssw.	4.9	2.1		0	5 s;ck			0	0	fair	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.68	753.7	29.87	758.7	75.9	24.4	90	sw.	2.4	1.1		0	1 s			0	0	clear	S. Takehayashi.
Nemuro	29.83	757.7	29.89	759.2	61.0	16.1	96	se.	12.0	5.4		10	0					raining	
Niigata	29.69	754.1	29.73	755.1	71.3	21.8	95	wsw.	17.1	7.6			10 n			1.270	32.3	raining	M. Morita.
Nohiru	29.66	753.3	29.67	753.7	70.9	21.6	94	sw.	13.0	5.8			10 n			0.530	13.5	rainy	H. Midzushina.
Osaka																			
Supporo					66.0	18.9	98	s.	6.0	2.7			10			0.020	0.5	covered	
Tokei Obs'y, Yeddo	29.64	752.8	29.71	754.6	74.2	23.4	93	s.	9.7	4.3			10 n					light rain	The Staff.
Wakayama	29.75	755.6	29.80	756.9	77.0	25.0	76	sw.	5.5	2.5		10	0		sw.	0	0	cloudy	Y. Kuwamura.
MAURITIUS																			
Mauritius Observatory	30.05	763.3	30.25	768.3	68.9	20.5	77	ese.	20.0	8.9		0	6 k;ks;n		ese.	0.06	1.5	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.77	603.8	29.99	761.8	58.3	14.6	91	nne.				1 c;ck	0	e.		0.493	12.5	clear	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.01	762.2	61.2	16.2	83	nw.			1	2 ck	0			inap.	inap.	fair	Prof. M. Leal.
Mazatlan	29.75	755.6	30.01	762.2	77.0	25.0	91	ene.	1.6	0.8		5 ck	0	e.		0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.20	589.3	30.26	768.7	52.9	11.6	84	calm	0	0		1 c	9 k			0.276	7.0	covered	The Staff.
Morelia	24.34	618.2	30.50	774.7	59.4	15.2	63	se.			2	3	1	s.	s.	0	0	½ cloudy	M. Tena, M. D
Orizaba	26.17	664.7	30.16	766.1	58.8	14.9	81	e.	0.9	0.4		1	2	n.	e.	0	0	foggy	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.03	610.4	29.96	761.0	63.3	17.4	81	w.			1	5 ck	0	e.		0.040	1.1	½ cloudy	M. Y. de Leon, M. E
Puebla, Catholic Institute	24.47	596.2	30.28	769.0	50.0	10.0	86	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.32	617.5	30.27	768.9	62.4	16.9	64	ese.				3	5	w.	e.	0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.66	575.7	30.29?	770.0?	59.3	15.2	76	e.	3.9	1.7		5 c	5 k		e.	0	0	covered	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.95	760.6	29.95	760.6	67.5	19.7		wsw.			3					0	0		
Groningen	29.82	757.5	29.88	758.9	68.9	20.5		wsw.			2					0.138	3.5		
Helder	29.87	758.8	29.87	758.8	63.7	17.6		sw.			4					0	0		
Hellevoetsluis	29.92	760.0	29.92	760.0	67.8	19.9	72	w.			3					0.028	0.7		
Utrecht	29.88	758.9	29.93	760.1	71.6	22.0	60	sw.			3		5			0.004	0.1	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.65	753.1	29.71	754.7	57.9	14.4	90	sse.	7	3			10			1.087	27.6	raining	
Brono	29.05	753.2	29.69	754.2			31	s.	9	4			2			0	0		
Christiania	29.60	751.7	29.74	755.3	71.2	21.8	78	ese.	0	0			9			0.201	5.1		
Gjæsvær	29.85	758.1	29.87	758.7	64.0	17.8		w.			2		10						
Lodingen	29.75	755.6	29.80	756.8	66.4	19.1	77	calm			0		7			0.087	2.2		
PORTUGUESE.																			
Angra, Azores					72.0	22.2	88	wnw.	7.4	3.3			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.11	739.5	30.09	764.3	79.2	26.2	28	se.	3.1	1.4			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.10	764.4	30.18	766.6	72.0	22.2	59	sw.	4.9	2.2			5			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.78	756.3	30.13	765.3	70.7	21.5	43	n.	14.3	6.4			0			0	0		The Staff.
Ponta Delgada, Azores	30.17	766.3	30.24	768.0	77.7	25.4	67	wnw.	8.7	3.9			4			0	0		
Saint Paul de Loando	29.87	758.8	30.08	764.0	71.2	21.8	82	nw.	0.7	0.3			7	s.		0	0		
Serra da Estrella	25.39	644.8	30.00	762.1	60.8	16.0	47	n.	1.8	0.8			1			0	0	foggy	
RUSSIAN.																			
Akmolinski	28.61	726.6	29.61	752.0	83.8	28.8	30	sw.	7	3		0	3 k			0	0		Major K. Lasarew.
Archangel	30.04	763.0	30.06	763.5	77.2	25.1	41	calm	0	0		5 cs	0			0	0		Capt. Sseliwerstow.
Astrakhan	29.91	759.6	29.82	757.5	93.4	34.1	20	ese.	2	1		0	0			0	0		Capt. Wisganow.
Barnaul	29.23	742.4	29.70	754.4	74.8	23.8	50	n.	9	4			6			0	0	light clouds	Meteorological Obs'y.
Dorpat	29.74	755.5	29.97	761.2	87.1	30.6	54	ene.	9	4		0	2 k			0	0		Observatory.
Ekaterinburg	28.79	731.2	29.71	754.5	72.1	22.3	57	wsw.	9	4			10 n			0.469	11.9		Meteorological Obs'y.
Irkutsk	28.37	720.5	29.97	761.1	63.7	17.6	59	sse.	2	1			10 n			0	0		
Kasan	29.65	753.0	29.90	759.4	82.0	27.9	42	nw	7	3		0	8 kn			0	0		Observatory.
Kertch	29.71	754.6	29.73	755.1	85.5	29.7	59	nw.	9	4		0	3 ks			0	0		Lagorio & Sastyrez.
Kieff	29.16	740.6	29.70	755.9	73.6	23.1	83	nw.	9	4		c;ck	sk;ks;n			0.012	0.3		Observatory.
Lugan	29.58	751.4	29.78	756.3	90.5	32.5	25	ese.	9	4			9			0	0		Meteorological Obs'y
Moscow	29.50	749.2	29.93	760.3	84.9	29.4	49	nw.	7.8	3.5			5 ks						Meteorological Obs'y.
Nikolaiev	29.73	755.1	29.80	756.9	88.9	31.6	49	s.	9	4		0	3 k			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.03	752.6	29.77	756.2	78.3	25.7	85	calm	0	0		0	6 k			1.071	27.2		Physical Observatory
St. Petersburg	30.05	763.3	30.07	763.7	80.2	26.8	34	ne.	7	3		0	0			0	0		Central Physical Obs'y
Semipalatinsk	29.04	737.7	29.65	753.1	83.8	28.8	30	nne.	9	4			5			0	0		Major Lasarew.
Tashkend, Laboratory	28.12	714.3	29.57	751.1	90.0	32.2	37	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.35	720.0	29.65	753.0	99.0	37.2	21	s.	2	1		0	1 s			0	0		Physical Observatory
Vladivostock	29.65	753.1	29.72	754.8	62.8	17.1	98	e.	7	3			10 n						
Warsaw	29.32	744.8	29.72	754.8	82.2	27.9	58	ene.	4	2		0	7 ks						Astronomical Obs'y
Wilna	29.44	747.8	29.83	757.6	87.8	31.0	49	ese.	2	1			3			0	0		Berg, Assistant.
Yeniseisk	29.61	752.0	29.88	759.0	67.8	19.9	93	ese.	4	2			3			blank	blank		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.91	759.8	30.02	762.4	75.5	24.2	69	se.	4.5	2.0			2 k						Antonio Rave, Director.
Bilbao, Met. Obs'y	30.00	762.0	30.06	763.5	78.4	25.8	44	s.	1.8	0.8		2	2	w.		0	0	cloudy	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.19	690.5	30.07	763.8	66.2	19.0	60	sw.	4.9	2.2			1			0.340	8.8	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.87	707.9	30.02	762.4	75.9	24.4	38	w.	4.0	1.8		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director.
Santiago, Met. Obs'y	29.17	740.8	30.05	763.2	64.9	18.3	67	s.	15.0	6.7			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.																			Benito Vines, S. J.
Manilla, Philippine Islands	29.78	756.5	29.84	758.0	77.9	25.5	88	ssw.	4.8	2.1			9 n		sw.	1.327	33.7	misty	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.93	760.1	30.02	762.6	79.8	24.9	55	w.	8.9	4.0		3	3	w.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.98	761.6	30.08	763.9	79.5	26.4	89	calm	0	0		4 k	2 kn	se.	se.	0.020	0.5	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.64	752.8	29.77	756.1	78.5	25.8	88	sw.	0.5	0.2		4 cs	6 ks		sw.	0.02	0.5	dull	José L. Yrastorza.
SWEDISH																			
Haparanda	29.94	760.4	29.98	761.4	63.3	17.4	72	s.			2		0			0	0		
Umea	29.89	760.8	30.00	762.1	72.3	22.4	72	s.			4		0			0	0		
Hernosand	29.89	759.1	29.94	760.4	69.4	20.8	60	ssw.			2		0			0	0		
Stockholm	29.73	755.2	29.91	759.7	77.9	25.5	60	se.			2		0			0	0		
Wisby	29.80	756.8	29.85	758.3	83.1	28.4	53	sse.			2		0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Sub-series.																			
Upsala	29.78	756.3	29.86	758.5	78.4	25.8	46	se.	11.2	5.0			4		s.	0	0		S. G. Fineman.
SWISS.																			
Geneva	28.63	727.3	30.02	762.4	69.4	20.8	58	ene.			2					0.480	12.2	covered	The Observatory
SCOTTISH.																			
Monach Lt			29.48	748.8	61	16.1	94	sse.			3	5	3	s.		0.5	13.	d. clouds	J. Youngclause.
North Unst			29.70	754.4				s.			8								
TURKISH.																			
Constantinople			29.84	758.0	84.4	29.1	51	s.	8	3.5			1		n.	0	0		The Observatory.
Valona			30.04	762.9	88.7	31.5		s.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.82	757.5	84.6	29.2	53	w.			2	0	3 k		w.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.14	765.5	30.22	767.6	74	23.3	69	s.	8	3.6		3 ck	4 k		s.	0	0	fair	J. O. Barnes.
Alpena, Michigan	29.30	744.2	29.94	760.5	66	18.9	78	sw.	6	2.7		6 cs	1 s	sw.		inap.	inap.	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.19	639.8	29.93	760.2	59	15.0	93	e.	5	2.2		0	0			0.02	0.5	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	27.32	693.9	30.05	763.3	49	9.4	86	sw.	2	0.9		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.02	737.1	30.17	766.3	73.0	22.8	71	e.	5	2.2		5 k	0			0	0	fair	H. Hall.
Atlantic City, New Jersey	30.23	767.8	30.24	768.1	73	22.8	83	e.	6	2.7		3 k	0	calm		0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.00	762.0	30.19	766.8	76.0	24.4	82	calm	0	0		0	0			0	0	clear	John Healy.
Baltimore, Maryland	30.21	767.3	30.26	768.6	73	22.8	82	s.	2	0.9		2 k	3 ks;hz	s.	s.	0	0	fair	Robert Seyboth.
Barnegat, New Jersey	30.24	768.1	30.26	768.6	72.5	22.5	83	se.	6	2.7		3 cs	3 k	sw.	sw.	0	0	fair	G. A. Hill.
Bennett, Fort, Dakota	28.38	720.8	29.92	760.0	59	15.0	93	n.	4	1.8			10 s		calm	inap.	inap.	cloudy	A. Pritchard.
Benton, Fort, Montana	27.34	694.4	30.05	763.3	49	9.4	80	calm	0	0		0	0			0.01	0.3	clear	G. W. Davis.
Behring Island, Behring Sea	29.68	753.9	29.70	754.4	43.5	6.4		s.	1	0.4		0	1 s			0	0	clear	Dr. L. Steineger.
Bismarck, Dakota	28.21	716.5	29.93	760.2	58	14.4	86	sw.	6	2.7		1 k	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.28	769.1	30.31	769.9	63.2	17.3	93	calm	0	0		0	fg.			0	0	clear	J. T. Elker.
Boise City, Idaho	27.23	691.6	29.95	760.7	68	20.0	53	n.	1	0.4		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.14	765.5	30.29	769.4	68.0	20.0	51	sw.	3	1.3		2 c	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	30.00	762.0	30.04	763.0	78.9	26.1	91	s.	4	1.8		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.32	744.7	30.05	763.3	71	21.7	66	s.	8	3.6		4 k	0	sw.		0	0	fair	Wm. Finn.
Buford, Fort, Dakota	28.09	713.5	30.03	762.7	54	12.2	74	w.	2	0.9		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.86	758.4	30.14	765.5	70.7	21.5	74	s.	19	8.5		1 ck	0	w.		0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.73	755.1	30.12	765.0	72.8	22.7	85	calm	0	0			10 s		n.	0.17	4.3	cloudy	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.30	693.4	29.89	759.2	70	21.1	62	calm			0	2 ck	3 ks	w.	w.	0	0	fair	J. T. Fitzgerald.
Cape Henry, Virginia	30.19	766.8	30.21	767.3	74	23.3	90	ne.	14	6.3			10 s			0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.22	767.6	30.26	768.6	72.0	22.2	90	se.	3	1.3		0	5 k;hz		se.	0	0	fair	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.15	765.8	30.17	766.3	79	26.1	77	e.	4	1.8		0	hz.			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.27	743.4	30.06	763.5	66.0	18.9	84	w.	4	1.8		0	0			0.07	1.8	clear	L. A. Welsh.
Charleston, S. Carolina	30.10	764.5	30.15	765.8	75.8	24.3	82	n.	7	3.1		3 cs	0	n.		0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.33	745.0	30.16	766.1	76.0	24.4	69	e.	4	1.8		0	hz.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.35	745.5	30.15	765.8	69.5	20.8	86	e.	3	1.3		4 cs	sk.	n.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.21	614.9	29.90	759.4	48.2	9.0	68	nw.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.35	745.5	30.04	763.0	65.8	18.8	79	w.	5	2.2		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.20	767.1	30.22	767.6	74	23.3	84	e	8	3.6		0	5 s		e.	0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.46	748.3	30.10	764.5	70	21.1	84	e.	2	0.9			10 n		e.	0.06	1.5	light rain	J. F. Harrold.
Cleveland, Ohio	29.37	746.0	30.09	764.3	72.4	22.4	64	sw.	11	4.9		7 k	0	sw.		0	0	fair	J. B. Newlin.
Coleman City, Texas																0.02	0.5		L. Dorman.
Columbus, Ohio	29.26	743.2	30.09	764.3	68	20.0	73	s.	4	1.8		6 cs	0	w.		0	0	fair	D. Cuthbertson.
Concho, Texas	28.18	715.8	30.06	763.5	66	18.9	78	e.	4	1.8		0	0			0	0	clear	W. W. McConihe.
Custer, Fort, Montana	26.99	685.5	30.01	762.2	50	10.0	93	ne.	6	2.7		2 k	0	calm		0.04	1.0	clear	V. Verge.
Davenport, Iowa	29.44	747.8	30.07	763.8	65	18.3	84	w.	2	0.9		0	hz.		calm	0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.28	642.1	29.92	760.0	69	20.6	55	n.	3	1.3		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.32	719.3	30.03	762.7	60.0	15.6	75	sw.	1	0.4		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.51	647.9	29.93	760.2	52.0	11.1	93	n.	3	1.3			10 s		nw.	0.48	12.2	cloudy	G. W. Scott.
Decatur, Texas																			D. J. Carr.
Delaware Breakwater, Del.	30.24	768.1	30.26	768.6	68	20.0	93	e.	8	3.6		3 c	2 k		e.	0	0	fair	A. Schneider.
Denison, Texas	29.31	744.5	30.09	764.3	70.4	21.3	94	calm	0	0		4 k	fg	sw.		0.96	24.4	fair	J. McGlone.
Denver, Colorado	24.90	632.4	29.91	759.7	55.0	13.1	63	n.	11	4.9		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.18	741.2	30.06	763.5	59	15.0	87	calm	0	0		0	fg			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.35	745.5	30.04	763.0	69.6	20.9	84	sw.	6	2.7			10 s		w.	0.53	13.5	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.48	698.0	29.98	761.5	64.0	17.8	73	sw.	14	6.3		0	5 s		n.	0.08	2.0	fair	W. M. Mattingly.
Dubuque, Iowa	29.36	745.7	30.05	763.3	62.7	17.1	78	w.	1	0.4		0	fg.			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.19	741.4	29.91	759.7	64	17.8	63	w.	16	7.2		0	hz			0.09	2.3	clear	N. B. Conger.
Eagle Pass, Texas	29.27	743.4	30.06	763.5	77.0	25.0	76	se.	9	4.0			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.37	644.4	29.92	760.0	40	7.8	54	n.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.18	766.6	30.24	768.1	65.0	18.3	68	s.	5	2.2		3 c	0	w.		0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	29.38	746.2	30.02	762.5	64	17.8	78	se.	4	1.8			10 s		se.	0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.39	670.3	29.99	761.7	70	21.1	59	ne.	4	1.8		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.35	745.5	30.06	763.5	73	22.8	64	s.	6	2.7		8 k	0	sw.		0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.27	743.4	29.91	759.7	65	18.3	63	w.	6	2.7		0	0			inap.	inap.	clear	C. Dill.
Fredericksburg, Texas	28.36	720.3	30.06	763.5	70	21.1	84	s.	4	1.8		0	9 ks			0.41	10.4	cloudy	H. S. Miles.
Galveston, Texas	30.06	763.5	30.11	764.8	81.5	27.5	82	sw.	6	2.7		3 ck	2 s	se.		0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.37	746.0	30.02	762.5	68.5	20.3	76	w.	7	3.1		0	0			0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.36	644.1	29.93	760.2	66.9	19.4	55	se.	4	1.8			10 s			0.01	0.3	cloudy	Robert O. Lord.
Hatteras, North Carolina	30.14	765.5	30.16	766.1	71.0	21.7	100	ne.	4	1.8			10 n		e.	2.54	64.5	heavy rain	R. M. Crawford.
Helena, Montana	25.90	659.4	30.02	762.5	54	12.2	69	w.	2	0.9		4 k	0	w.		0.02	0.5	fair	S. Wheaton.
Henrietta, Texas	29.17	740.9	30.15	765.8	74.0	23.3	84	e.	4	1.8			fg.			0	0	dense fog	J. W. Byram.
Huron, Dakota	28.65	727.7	29.97	761.2	58.1	14.5	93	s.	8	3.6			10 n			0.11	2.8	light rain	S. W. Glenn.
Indianapolis, Indiana	29.27	743.4	30.04	763.0	69	20.6	90	se.	4	1.8		4 cs	4 s		s;se	0.63	16.0	cloudy	O. Schutze
Indianola, Texas	30.06	763.5	30.09	764.3	79.9	26.6	91	s.	4	1.8		6 cs	1 ks	nw.		0	0	fair	I. A. Reed.
Jacksboro, Texas	28.96	735.6	30.08	764.0	73	22.8	90	e.	5	2.2			10 s		e.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.13	765.3	30.17	766.3	78	25.6	77	calm	0	0		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.62	701.5	30.03	762.7	52	11.1	86	sw.	3	1.3		0	0			0.13	3.3	clear	W. B. Stockman.
Keokuk, Iowa	29.42	747.3	30.05	763.3	68.5	20.3	75	calm	0	0		0	0			0	0	clear	F. Z. Gosewisch
Key West, Florida	30.08	764.0	30.10	764.5	86.0	30.0	72	e.	2	0.9		0	0			0.48	12.2	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.17	766.3	30.19	766.8	72.0	22.2	98	e.	12	5.4			10 n			0.85	21.6	light rain	E. A. Beals.
Knoxville, Tennessee	29.15	740.4	30.15	765.8	70.3	21.3	82	ne.	1	0.4		4 ck	0			0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.25	742.9	30.00	762.0	62	16.7	78	sw.	4	1.8		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.23	666.2	29.97	761.2	62.5	16.9	71	calm	0	0		0	2 s			inap.	inap.	clear	N. D. Lane.
Leavenworth, Kansas	29.21	741.9	30.07	763.8	63	17.2	90	calm	0	0		3 cs	fg.	w.		0	0	fair	A. W. Browne.
Lewiston, Idaho	29.22	742.2	30.03	762.7	66.0	18.9	40	e.	1	0.4		7 cs	0			0	0	fair	W. Bell.
Little Rock, Arkansas	29.78	756.4	30.10	764.5	72	22.2	97	w.	1	0.4			10 n			0.25	6.3	light rain	W. U. Simons.
Los Angeles, California	29.69	754.1	30.08	764.0	57.2	14.0	77	s.	1	0.4			fg.			0	0	dense fog	E. F. Kubel.
Louisville, Kentucky	29.51	749.5	30.06	763.5	71	21.7	90	s.	5	2.2			10 s;fg			0.10	2.5	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.54	750.3	30.20	767.1	69.5	20.8	77	calm	0	0		0	8 ks			0	0	cloudy	W. R. Bushby.
Macon, Fort, North Carolina	30.14	765.5	30.15	765.8	72	22.2	97	ne.	10	4.5			10 n		ne.	0.19	4.8	light rain	F. P. Chaffee.
Madison, Wisconsin	29.04	737.6	30.02	762.5	61	16.1	83	w.	6	2.7		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.63	651.0			55	12.8	74	w.	5	2.2		0	0			0.02	0.5	clear	H. W. Dodge.
McKavett, Fort, Texas	27.86	707.6	30.06	763.5	71	21.7	76	calm	0	0		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.17	740.9	29.88	758.9	66	18.9	63	w.	15	6.7		6 c	0	w.		0.07	1.8	fair	J. Gilligan.
Memphis, Tennessee	29.75	755.6	30.08	764.0	73	22.8	90	se.	5	2.2			10 n			0.54	13.7	light rain	D. T. Flannery.
Milwaukee, Wisconsin	29.30	744.2	30.03	762.7	62	16.7	78	w.	9	4.0		0	0			0	0	clear	W. Line.

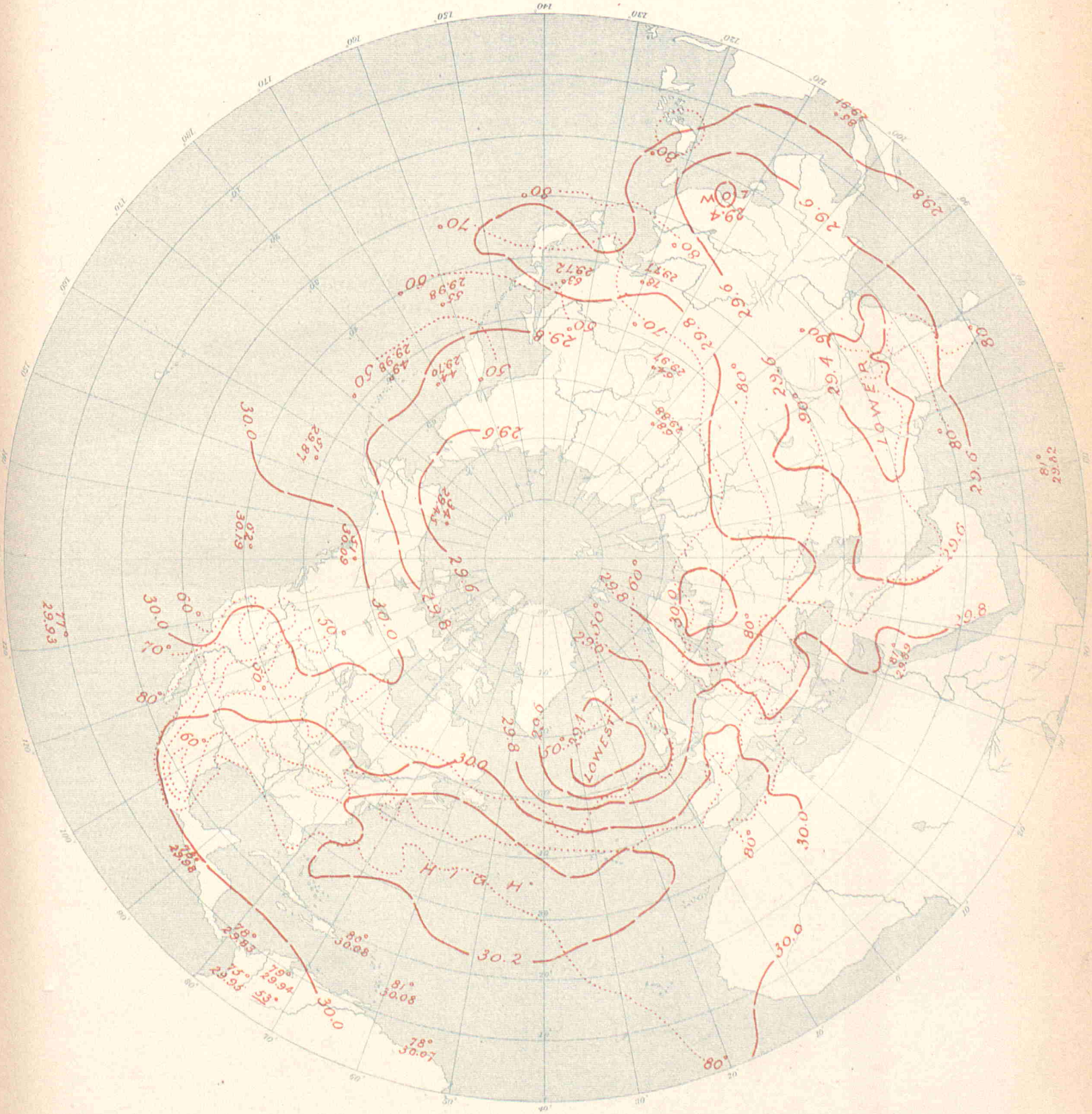
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.88	682.7	30.07	763.8	58	14.4	56	sw.	2	0.9		0	0			0	0	clear	J. H. Jones.
Mobile, Alabama	30.12	765.0	30.16	766.1	77.5	25.3	89	n.	2	0.9		4 ck	1 ks	w.		inap.	inap.	fair	C. A. Read.
Montgomery, Alabama	29.92	760.0	30.14	765.5	76.4	24.7	81	calm	0	0			10 s		sw.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.97	735.8	29.93	760.2	57	13.9	86	sw.	8	3.6		5 cs	0	w.		0.08	2.0	fair	H. Bessant.
Morgantown, W. Virginia	29.15	740.4	30.15	765.8	73.5	23.1	75	sw.	1	0.4		0	0			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.11	612.4	30.18	766.6	48.0	8.9	93	w.	29	13.0			fg.		w.	0	0	dense fog	J. G. Lipsley
Nashville, Tennessee	29.57	751.1	30.09	764.3	73.0	22.8	84	s.	1	0.4			10 n		s.	0.59	15.0	light rain	L. N. Jesunofsky.
New Haven, Connecticut	30.17	766.3	30.28	769.1	65	18.3	93	se.	4	1.8			fg.			0	0	light fog	J. H. Sherman.
New London, Connecticut	30.26	768.6	30.31	769.9	63	17.2	93	calm	0	0			fg.			0	0	dense fog	J. G. Lynch.
New Orleans, Louisiana	30.08	764.0	30.13	765.3	78.5	25.8	87	s.	1	0.4		0	sk.			1.30	33.0	clear	L. Dunne.
Newport, Rhode Island	30.26	768.6	30.31	769.9	67.6	19.8	82	se.	4	1.8		1 c	fg.			0	0	clear	W. McGillivray.
New York, New York	30.11	764.8	30.28	769.1	70.3	21.3	84	se.	2	0.9		3 cs	4 k		se.	0	0	fair	J. B. Merrill.
Norfolk, Virginia	30.17	766.3	30.20	767.1	73	22.8	97	ne.	4	1.8			10 ks			0	0	cloudy	H. L. Kemp.
North Platte, Nebraska	27.13	689.1	29.93	760.2	65.6	18.7	78	n.	5	2.2			10 s		sw.	0.05	1.3	cloudy	E. F. Brady.
Olympia, Washington T'y	30.06	763.5	30.10	764.5	53.0	11.7	83	calm	0	0			sk.		calm	0	0	dense smoke	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.43	747.5	29.45	748.0	33.7	0.9	100	ene.	16	7.2			10 n			0.20	5.1	light rain	P. H. Ray.
Omaha, Nebraska	28.89	733.8	30.02	762.5	65.8	18.8	81	se.	2	0.9		8 c	0	se.		0	0	cloudy	A. Pollak.
Oswego, New York	29.75	755.6	30.07	763.8	74.0	23.3	64	s.	13	5.8		2 k	0	sw.		0	0	clear	S. W. Beall.
Palestine, Texas	29.57	751.1	30.11	764.8	71.5	21.9	100	s.	3	1.3			10 n		s.	1.33	33.8	thund'r st'm	L. M. Pindell.
Pensacola, Florida	30.11	764.8	30.14	765.5	75.7	24.3	91	calm	0	0			10 s			0	0	cloudy	M. McGauran.
Philadelphia, Pa.	30.19	766.8	30.29	769.4	71.5	21.9	83	se.	2	0.9		1 c	3 s; hz	w.	s.	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	18.02	457.7	29.80	756.9	32	0.0	50	nw.	23	10.3		0	0			inap.	inap.	clear	L. M. Dey.
Pioche, Nevada	24.18	614.2	29.91	759.7	61.0	16.1	24	s.	2	0.9		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.32	744.7	30.11	764.8	71.6	22.0	66	s.	4	1.8		1 ck	0	sw.		0	0	clear	J. H. Bryce.
Poplar River, Montana	27.97	710.4						sw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.15	765.8	30.16	766.1	80.0	26.7	82	se.	2	0.9		0	0			0	0	clear	M. Hermann.
Port Huron, Michigan	29.36	745.7	30.02	762.5	66.3	19.1	97	sw.	4	1.8			10 s		sw.	0.85	21.6	cloudy	W. O. Bailey.
Portland, Maine	30.20	767.1	30.24	768.1	68.5	20.3	61	sw.	5	2.2		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.04	763.0	30.11	764.8	58.0	14.4	80	calm	0	0		0	hz.			0	0	dense haze	M. L. Hearne.
Prescott, Arizona	25.05	733.3	30.04	763.0	60	15.6	54	s.	3	1.3		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.27	768.8	30.30	769.6	72.0	22.2	66	s.	5	2.2		0	0			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.11	764.8	30.12	765.0	79	26.1	82	e.	6	2.7		0	1 k		calm	0	0	clear	W. J. Evans.
Red Bluff, California	29.66	753.4	30.02	762.5	67.0	19.4	59	calm	0	0		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.83	757.7	30.06	763.5	80.8	27.1	65	se.	6	2.7		2 cs	0	calm		0	0	clear	P. M. Wilson.
Rochester, New York	29.41	747.0	30.06	763.5	72	22.2	66	sw.	14	6.3		5 k	sk.	w.		0	0	fair	E. W McGann.
Roseburg, Oregon	29.54	750.3	30.08	764.0	54.5	12.5	83	calm	0	0		0	0			0	0	clear	J. J. Naury.
Sacramento, California	29.94	760.5	30.01	762.2	60.9	16.1	72	se.	6	2.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.52	749.8	30.10	764.5	65.5	18.6	97	sw.	3	1.3		hz.	hz.			0.03	0.8	dense haze	J. H. Webber.
St. Paul, Minnesota	29.13	739.9	29.97	761.2	58	14.4	86	sw.	6	2.7		0	0			0	0	clear	P. F. Lyons
St. Vincent, Minnesota	29.03	737.3	29.87	758.7	55	12.8	86	w.	5	2.2		2 ck	0	w.		0.11	2.8	clear	G. Kingsbury.
Salt Lake City, Utah	28.73	653.5	29.91	759.7	66	18.9	35	calm	0	0		3 k	0	w.		0	0	clear	J. Craig.
San Antonio, Texas	29.41	747.0	30.09	764.3	70.5	21.4	94	e.	3	1.3			10 n			2.00	50.8	heavy rain	T. J. Kenan.
San Diego, California	29.97	761.2	30.04	763.0	62.7	17.1	88	n.	4	1.8			fg.		w.	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.40	746.7	30.06	763.5	72.0	22.2	66	sw.	7	3.1			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.24	768.1	30.27	768.8	72.5	22.5	84	s.	5	2.2		3 k	0	s.		0	0	clear	B. A. Blundon.
San Francisco, California	30.02	762.5	30.09	764.3	56	13.3	86	w.	13	5.8		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.41	594.6	29.91	759.7	60	15.6	52	e.	6	2.7		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	30.09	764.3	30.18	766.6	75.5	24.2	85	nw.	6	2.7		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.53	673.8	30.04	763.0	48	8.9	86	w.	4	1.8		0	0			0.01	0.3	clear	A. L. Mathews.
Shreveport, Louisiana	29.91	759.7	30.14	765.5	72	22.2	100	sw.	2	0.9			10 s		sw.	1.27	32.3	threatening	E. N. Meekins.
Sill, Fort, Indian Territory	28.90	734.0	30.10	764.5	68	20.0	90	n.	5	2.2		0	0			0	0	clear	T. Cleary.
Silver City, New Mexico	24.46	621.3	29.92	760.0	57	13.9	45	n.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	30.03	762.7	30.09	764.3	50.5	10.3	84	s.	8	3.6			10 n		se.	0.24	6.1	heavy rain	J. J. McLean.
Smith, Fort, Arkansas	29.63	752.6	30.09	764.3	68.5	20.3	84	calm	0	0		0	3 s		e.	0.06	1.5	clear	J. B. Campbell.
Smithville, North Carolina	30.09	764.3	30.12	765.0	72	22.2	87	ne.	7	3.1			10 n			1.82	46.2	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.04	712.2	30.02	762.5	59	15.0	72	calm	0	0		2 c	0			0	0	clear	D. Moore.
Springfield, Illinois	29.42	747.3	30.08	764.0	68	20.0	84	n.	1	0.4		0	1 ks		w.	0.01	0.3	clear	T. B. Jennings.
Springfield, Massachusetts	30.15	765.8	30.28	769.1	66.4	19.1	90	sw.	3	1.3			fg.			0	0	dense fog	T. S. Outram.
Springfield, Mo.	28.70	729.0	30.09	764.3	63	17.2	93	ne.	2	0.9		0	fg.			0.10	2.5	clear	J. B. Marbury.
Starkville, Miss.	29.05	753.1	30.12	765.0	77	25.0	82	se.	3	1.3		1 c	7 s			0.02	0.5	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.18	715.8	29.96	761.0	55	12.8	86	nw.	6	2.7		0	0			0.04	1.0	clear	W. Burrows.
Stockton, Fort, Texas	27.10	688.3	30.04	763.0	63.2	17.3	93	s.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.24	768.1	30.30	769.6	67.5	19.7	81	sw.	5	2.2		0	0			0	0	clear	G. Liebmann.
Toledo, Ohio	29.37	746.0	30.04	763.0	70	21.1	84	sw.	6	2.7			10 s		sw.	1.19	30.2	threatening	A. Buell.
Tucson, Arizona	27.61	701.3	29.93	760.2	74	23.3	74	se.	3	1.3		0	2 ks			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.67	753.6	30.03	762.7	65	18.3	48	e.	4	1.8		0	hz			0	0	clear	J. Daly.
Uvalde, Texas																			E. C. Imlay.
Verde, Fort, Arizona					70	21.1	55	s.			1	0	2 s		s.	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.91	759.7	30.15	765.8	73	22.8	90	sw.	12	5.4			10 n		sw.	0.95	24.1	light rain	H. P. Brisbane.
Visalia, California	29.62	752.3	30.00	762.0	66	18.9	63	nw.	1	0.4		0	0			0	0	clear	W. L. Seward.
Washakie, Fort, Wyoming	24.63	625.6	29.96	761.0	45.0	7.2	68	ne.	5	2.2		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	30.13	765.3	30.24	768.1	73.6	23.1	80	s.	3	1.3		1 c	0	sw.		0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.11	663.2	29.87	758.7	60.9	16.1	78	calm	0	0		5 k	0	nw.		0.02	0.5	fair	F. W. Brandenburg.
Williamsport, Pa.	29.60	751.8	30.18	766.6	71	21.7	79	se.	6	2.7		0	7 ks		s.	0	0	fair	B. F. Hough.
Wilmington, N. Carolina	30.08	764.0	30.13	765.3	72	22.2	90	ne.	1	0.4			10 s			1.70	43.2	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.71	653.0	29.93	760.2	52	11.1	55	sw.	3	1.3		2 c	0	w.		0	0	clear	J. Grover.
Yankton, Dakota	28.70	729.0	29.97	761.2	58	14.4	86	nw.	1	0.4			10 n			0.02	0.5	light rain	J. H. Atfield.
Yuma, Arizona	29.74	755.4	29.88	758.9	78.7	25.9	66	calm	0	0		2 ck; cs	0	w.; ne.		0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1			53.0	11.7	71	e.	1	0.4		2 ck	4 ks; s	nw.	nw.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I.	30.07	763.8	30.08	764.0	81	27.2	87	se.				5 k	5 ks	e.		0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.92	760.0	29.95	760.7	75	23.9	95	s.	6	2.7			10 n		s.	0.70	17.8	raining	J. I. Plume.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	81.2	27.3	79	calm	0	0		0	0			0	0		Robert Johnston.
Magua, San Domingo, W. I.					71	21.7						5 ks	0	e.		0.95	24.1		S. M. Pike.
Navassa	29.91	759.7	29.99	761.7	81	27.2	76	e.	9	4.0		0 ck	3 s	ne.	e.	0	0	cloudy	F. M. Everett.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	78	25.6	86	se.			2	0	5 p		se.	0.750	19.0		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.38	746.2	29.94	760.5	79	26.1	89	calm			0	0	8 ks		s.	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							96	ne.			1	1 cs	1 ks	se.	ne.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.05	763.3	30.08	764.0	80	26.7	78	calm	0	0		3 c	0			0	0	fair	Robert Mason.
York Factory, B. A.	29.98	761.5	30.03	762.7	60.0	15.6	88	ne.	11	4.9		0	0			0	0	clear	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, Saint Helena Island, Africa	30.22	767.6	67	19.4	75	se.			3–4		10							showery.
H. M. S. Amethyst, Montevideo, Uruguay	30.32	770.1	43.5	6.4	87	sw.			3–4		2					3	sw.	d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.83	757.7	91	32.8		sse.			3		2	sse.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.31	769.9	61	16.1		nw.			1		3	w.						squally.
H. M. S. Champion, Yokohama, Japan			77	25.0	100	s.			3		7					2	ssw.	d. clouds.
H. M. S. Comus, N. 49° 03′, E. 175° 00′	29.98	761.5	49	9.4	85	w.			2		10					2	sw.	misty.
H. M. S. Diamond, S 10° 09′, E. 159° 33′	29.89	759.2	81	27.2	87	se.			1		9	n.				1	se.	misty.
H. M. S. Dido, N. 14° 50′, W. 61° 30′	30.06	763.5	80	26.7		s.			0–1		1	ne.						blue sky.
H. M. Dock-Yard, Bermuda, W. I.	30.21	767.3	80	26.7	82	ene.			1		2	ene.						d. clouds.
H. M. S. Druid, N. 32° 02′, W. 65° 00′	30.26	768.6	81	27.2	87	ne.			1		2					1	ese.	d. clouds.
H. M. S. Eclipse, S. 0° 02′, E. 44° 20′	30.07	763.8	78	25.6		se.			3		3					5	ese.	d. clouds.
H. M. S. Emerald, N. 2° 45′, W. 18° 30′	30.09	764.3	74	23.3	100	se.			3		3	se.				1	ese.	d. clouds.
H. M. S. Euryalus, N. 5° 20′ E 57° 50′	29.82	757.4	81	27.2	82	sw.			5		5	sw.				4	wsw.	squally.
H. M. S. Espiegle, S. 15° 59′ E. 167° 12′	29.94	760 5	75	23.9	85	ne.			1		5							squally.
H. M. S. Fantome, Saint Lucia, Jamaica, W. I.	30.01	762.2	79	26.1		calm			0		4							d. clouds.
H. M. S. Fawn, S. 34° 24′, E. 18° 41′	30.21	767.3	60.0	15.6	7	nw.					10	nw.				4	nw.	d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.03	762.7	58	14.4	93	calm			0		10							drizzling.
H. M. S. Garnet, N. 5° 00′, W. 21° 20′	30.11	764.8	77	25.0	77	sse.			5		4					2	sse.	d. clouds.
H. M. S. Griffon, N. 51° 30′, W. 55° 46′	30.17	766.3	51	10.6	93	se.			1									d. clouds.
H. M. S. Iron Duke, N. 47° 16′ E. 140° 10′	29.84	757.9	58	14.4	87	ne.			4		8	e.				3	e.	squally.
H. M. S. Kingfisher, N. 46° 10′ W. 124° 10′	30.14	765.5	56	13.3		n.			2		3					2	n.	d. clouds.
H. M. S. Lark, S. 10° 21′, E. 161° 51′	29.93	760.2	78.3	25.7	88	e.			1		4					1	e.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.11	764.8	55.5	13.1		calm			0		5	n.						d. clouds.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	29.86	758.4	79.6	26.4	85	s.			1		0							blue sky.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.89	759 2	79.5	26.4	71	nw.			2		2					1	nw.	d. clouds.
H. M. S. Nelson, S. 36° 20′, E. 174° 48′	29.09	738.9	55	12.8	93	s.			5–6									raining.
H. M. S. Northampton, Halifax, Nova Scotia	30.21	767.3	65	18.3	81	calm			0		3							d. clouds.
H. M. S. Orion, N. 37° 19′, E. 3° 45′	30.10	764.5	78.5	25.8		ene.			1		1	wsw.						blue sky.
H. M. S. Orontes, N. 33° 25′ E. 32° 00′	29.66	753.4	77.5	25.3	98	wsw.			3		0					2	wsw.	blue sky.
H. M. S. Pegasus, N. 1° 24′, E. 102° 55′	29.91	759.7	84.5	29.2	75	wnw.			1		0							blue sky.
H. M. S. Rambler, James Bay, Saint Helena Is'd	30.18	766.6	67	19.4	94	ese.			2		10	ese.						d. clouds.
H. M. S. Rocket, Vancouver Island, B. A.	29.94	760.5	55	12.8	93	calm			0		8							d. clouds.
H. M. S. Sappho, S. 16° 10′ W. 149° 00′	29.92	760.0	77.5	25.3		ese.			2–4		8	e.				3	e.	raining.
H. M. S. Swiftsure, S. 34° 30′ W. 52° 25′	30.34	770.6	44.5	6.9	100	ssw.			3–7		9	sw.				6	sw.	showery.
H. M. S. Sylvia, Maldonado, Uruguay	30.32	770.1	44.5	6.9	76	sw.			5–6		6	s.						squally.
H. M. S. Tenedos, N. 50° 36′ W. 57° 18′	30.10	764.5	58.5	14.7	73	wsw.			1		2							d. clouds.
H. M. S. Triumph, S. 45° 21′ W. 75° 45′	30.02	762.5	45	7.2	84	nne.			6-8		9	ene.				8	nne.	raining.
H. M. S. Woodlark, Bushire, Persia	29.37	746.0	92.5	33.6	81	w.			3–4		3	w.				4	w.	squally.
H. M. S. Zephyr, N. 31° 10′, E. 128° 50′	29.85	758.2	80	26.7	95	calm			0		0							blue sky.
Portuguese Naval.																		
Rio Lima, Santiago, Cape Verd Islands	30.08	763.9	77.9	25.5	92	ne.			2		3					2	ne.	d. clouds.
Tamega, Macao, China	29.39	746.4	84.2	29.0	85	nnw.			8		10		nnw.	8 h'r	8 h'r			raining.
United States Naval.																		
Navy Yard, Pensacola, Fla.	30.15	765.8	77	25.0	91	nw.	2	0.9			8		ne.	0	0			fair.
N. Yard, Portsmouth, N. H.	30.32	770.1	67	19.4	79	e.	2	0.9			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.63	752.6	75.5	24.2	88	sw.			3		10		w.	sll't	sll't			cloudy.
Adams, Mare Island, Cal.	30.19	766.8	58	14.4		sw.			2					0	0	sm'h		
Alaska, Callao, Peru	29.97	761.2	59	15.0	88	calm			0		10			0	0	sm'h		cloudy.
Alert, N. 41° 02′, W. 127° 40′*	30.04	763.0	59	15.0	100	nne.			4		5			0	0	sm'h	nne.	fair.
Alliance, Boston, Mass	30.31	769.9	65	18.3	89	w.			2		2			0	0			clear.
Ashuelot, Yokohama, Japan*	29.61	752.1	76	24.4	91	ssw.			2		10		sw.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.25	768.3	68	20.0	100	ese.	5	2.2			10		calm	0.76	19.3	sm'h		cloudy.
Colorado, New York, N. Y.	30.32	770.1	71	21.7	80	sw.	2	0.9			5		sse.	0	0			fair.
Constellation, Sandy Hook, N. J*	30.24	768.1	70	21.1	95	ese.			2		5		se.					fair.
Enterprise, Provincetown, Mass*	30.31	769.9	67	19.4	79	sw.			2		0					sm'h		clear.
Essex, S. 42° 40′, W. 82° 26′	29.80	756.9	54	12.2	93	nw.			6–7		5		nw.			r'gh	nw.	overcast.
Franklin, Norfolk, Va.	30.22	767.6	73	22.8	90	ene.	8	3.6			10		e.	0	0			cloudy.
Galena, N. 35° 44′, E. 14° 30′	30.01	762.2	78	25.6	95	w.			3		0					sm'h		clear.
Independence, Mare Island, Cal.	30.09	764.3	69	20.6	70	sw.			3		0			0	0			clear.
Iroquois, Mare Island, Cal.	30.02	762.5	59	15.0	76	w.			3		0			0	0			clear.
Kearsarge, Norfolk, Va.	30.25	768.3	74	23.3	100	ene.			2		10		ene.					cloudy.
Lackawana, Callao, Peru*	30.00	762.0	61	16.1	82	calm			0		10							misty.
Lancaster, Alexandria, Egypt*	29.89	759.2	80	26.7	91	nw.			2		0							clear.
Marion, S. 34° 54′, W. 56° 13′	30.30	769.6	44	6.7	92	ssw.			4		5		sw.	0	0	mod.	sw.	fair.
Michigan, Detroit, Mich.	30.03	762.7	68	20.0	95	sw.			2		10		sw.					cloudy.
Minnesota, Newport, R. I.	30.34	770.6	69	20.6	75	calm	0	0			2							foggy.
Monocacy, Chefoo, China	29.76	755.9	74	23.3	95	sse			1		10		calm			sm'h		heavy rain.
New Hampshire, Newport, R. I.	30.35	770.9	66	18.9	94	calm			0		5					sm'h		foggy.
Nipsic, Alexandria, Egypt*	29.86	758.4	81	27.2	66	nnw.			3		2		nnw.			sm'h		clear.
Onward, Callao, Peru	30.14	765.5	59	15.0	94	calm			0		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.73	755.1	78	25.6	82	w.			1		5		w.					fair
Passaic, Washington, D. C.	30.26	768.6	74	23.3	86	se.			1		8		se.					cloudy.
Pensacola, Panama, Panama*	29.83	757.7	78	25.6	95	nw.	3	1.3			5		calm	0.06	1.5	sm'h		fair.
Portsmouth, N. 37° 19′ E. 0° 39′*	30.03	762.7	76	24.4	91	wsw.			1		5					sm'h		clear.
Powhatan, Pensacola, Florida	30.15	765.8	82	27.8	83	calm			0		5							fair.
Quinnebaug, Alexandria, Egypt	29.89	759.2	81	27.2	91	nw.			1		0					sm'h		clear.
Ranger, Mare Island, Cal.	30.06	763.5	59	15.0	82	sw.			2		0			0	0			clear.
Richmond, Yokohama, Japan*	29.64	752.8	77	25.0	91	ssw.			3		10		ssw.	0	0			cloudy.
Saratoga, N. 37° 18′ E. 0° 40′	30.02	762.5	77	25.0	86	wsw.			2		5		sw.	0	0	sm'h		fair.
St. Louis, League Island, Pa.	30.49	774.4	71	21.7	95	e.			1		2			0	0			clear.
Swatara, Yokohama, Japan*	29.57	751.1	76	24.4	91	ssw.			3		8		w.			mod.	ssw.	fair.
Tennessee, Provincetown, Mass.	30.36	771.1	70	21.1	75	ssw.	2	0.9			2							clear.
Vandalia, Portsmouth, N. H*	30.26	768.6	68	20.0	79	calm			0		2		calm					clear.
Wabash, Boston, Mass.	30.31	769.9	66	18.9	59	wsw.	3	1.3			10		w.					fair.
Wachusetts, Fort Wrangle, Alaska†	30.32?	770.1?	49	9.4	93	calm			0		10		calm			sm'h		cloudy.
Wyoming, Port Royal, S. C*.	30.16	766.1	74	23.3	81	n.	8	3.6			2		n.	0	0			clear.
Yantic, Provincetown, Mass†	30.46	773.7	67	19.4	74	wsw.			1		0							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 54° 54′, W. 5° 38′*	29.60	751.8	55	12.8	87	sse			4		6		s.	inap.	inap.	3	s.	d. clouds.
S. S. Grecian, Glasgow, Scotland*	29.64	752.8	77	25.0		ssw.			3		9		ssw.	4 h'r	4 h'r			squally.
S. S. Nova Scotian, Halifax, N. S.	30.07?	763.8?	80	26.7		w.			1		0							clear.
S. S. Waldensian, N. 52° 11′ W. 25° 03′*	29.33	745.0	54	12.2		wsw.			6		10		wsw.	sh'rs	sh'rs	hv'y	wsw.	rainy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, Liverpool, Eng*†	29.70	754.4				sw.			4		5		wsw.	1 h'r	1 h'r			fine.
S. S. Lord Gough, Off Cape Henlopen, Del	30.21	767.3	79	26.1		nnw.			2		5		nw.	0	0	sm'h		fair.
AMSTERDAM LINE.																		
S. S. Jason, N. 49° 55′, W. 22° 06′	29.72?	754.9?	57.2	14.0		w.			5		5 ks					6	w.	gloomy.
ANCHOR LINE.																		
S. S. Alexandria, N. 39° 53′ E. 1° 20′	30.10	764.5	71	21.7		e.			2		2		ne.	0	0	2	var.	clear.
S. S. Assyria, N. 40° 44′, W. 55° 49′*†	30.40	772.1	73	22.8		ene.			5		1		ene.	4 h'r	4 h'r	sm'h		clear.
S. S. Bolivia, N. 40° 39′ W. 62° 34′*†	30.32	770.1	68	20.0		ene.			2		0			0	0	sm'h		clear.
S. S. Devonia, N. 41° 54′, W. 62° 10′†	30.46	773.7	69	20.6		wnw.			1		0					sm'h		clear.
S. S. Ethiopia, N. 53° 45′, W. 21° 15′	29.23	742.4	58.5	14.7	85	wsw.			4		6?		w.	6 h'r	6 h'r	h'vy	w.	clear?
S. S. Galatia, N. 28° 36′, E. 32° 54′†	29.99	761.7	81	27.2		n.			3					0	0			
S. S. India, N. 39° 05′, W. 18° 00′*	30.08	764.0	74	23.3	90	w.			1		6					h'vy	nw.	cloudy.
ATLAS LINE.																		
S. S. Ailsa, N. 31° 05′, W. 74° 04′†	30.12	765.0	81	27.2	78	sse.			3		2		s.	4 h'r	4 h'r	mod.	s.	clear.
S. S. Alvo, Savantilla, U. S. C.	29.91	759.7							4		0			0	0			
S. S. Antillas, Jeremie, Hayti, W. I. *†	30.20	767.1				calm			0									
BOSTON AND HALIFAX.																		
S. S. Carroll, Picton, N. S.†	29.83	757.7	64	17.8		wsw.			2		0			light	light			clear.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 5° 10′ W. 26° 34′	30.08	764.0	79	26.1	90	ese.			5		2							blue sky.
S. S. Basil, N. 18° 11′, W. 24° 43′	30.09	764.3	75.5	24.2	85	calm			0		6							d. clouds.
S. Baroda, S. 35° 35′, E. 20° 51′	30.15	765.8	59.7	15.4	94	nw.			6		5							showery.
S. S. Cipero, N. 40° 19′ W. 32° 42′	30.13	765.3	72.8	22.7	90	wsw.			5		10							overcast.
S. S. City of Agra, S. 1° 25′, W. 26° 38′	30.13	765.3	79	26.1	95	ese.			4		1							blue sky.
S. S. Glencairn, N. 43° 28′, W. 29° 30′	30.06	763.5	65	18.3	90	wnw.			4–5		9							d. clouds.
S. S Gordon Castle, N. 39° 57′, W. 22° 26′	30.15	765.8	79.5	26.4	73	w.			3		7							d. clouds.
S. S. Markland, S. 36° 33′, W. 109° 05′	30.08	764.0	57	13.9	97	w.			6		10					5	wsw.	misty.
May Hulse, N. 5° 44′, W. 23° 54′	30.06	763.5	79.9	26.6	70	sse.			2		2							blue sky.
S. Oamaru, S. 34° 53′, E. 20° 50′	30.21	767.3	60.5	15.8	82	wsw.			6		9							d. clouds.
S. S. Pole Star, N. 29° 09′, W. 40° 25′	30.25	768.3	80.7	27.1	91	ese.			2		3							blue sky.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, Guaymas, Mexico*†	29.92	760.0	86	30.0	75	calm			0		8							fair.
CUNARD LINE.																		
S. S. Marathon, N. 42° 10′. W. 59° 40′	30.30	769.6	69	20.6		nne.			1		1			0	0	sm'h	w.	fine.
S. S. Scythia, N. 51° 16′, W. 14° 18′	29.45	748.0	62	16.7	83	sw.			5		6		w.	3 h'r	3 h'r	mod.	sw.	
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Ville de Marseilles, Marseilles, France*†	29.85	758.2	77	25.0		nnw.			4–5		0			0	0			clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 52° 16′, E. 3° 00′†	29.92	760.0				sw.			5		3		wsw.	0	0	mod.	sw.	
S. S. Cimbria, N. 40° 22′, W. 63° 22′	30.35	770.9	74	23.3		ene.			3		1		ene.	0	0	sm'h	ene.	clear.
S. S. Herder, N. 42° 22′, W. 48° 00′	30.44	768.0	79	26.1		ne.			3		9		nne.	14 h'r	14 h'r	mod.	ne.	covered.
S. S. Silesia, New York, N. Y†	30.34	770.6				sw.			4		5		sw.	0	0			fair.
S. S. Wieland, N. 49° 16′, W. 18° 10′	29.65	753.1	63	17.2		wsw.			6		5		wsw.	4 h'r	4 h'r	6	wsw.	stormy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 4° 27′ W. 30° 00′.*†	30.26	768.6	80	26.7		sse.			4		2		sse.	1 h'r	1 h'r	sm'h		clear.
MALLORY LINE.																		
S. S. Colorado, N. 33° 35′, W. 77° 23′†	30.12	765.0	75	23.9		e.			3		8		e.	1 h'r	1 h'r	mod.	e.	cloudy.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 37° 23′ W. 65° 23′*†	30.33	770.4	81	27.2	91	ne.			2		1		n.	0	0	mod.	n.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 49° 32′, W. 14° 31′.†.	29.61	752.1	62	16.7	94	ssw.			4		5			2 h'r	2 h'r	mod.	sw.	showery.
S. S. Hermod, N. 49° 45′ W 5° 10′ *†	29.45	748.0	59.0	15.0		sw.			7		10		sw.	6 h'r	6 h'r	cross	ssw.	threatening.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, S. 0° 55′, W. 45° 07′	29.62	752.3				ese.			3				se.	0	0	mod.	ese.	fine.
NATIONAL LINE.																		
S. S. Denmark, N. 46° 20′ W. 34° 08′	29.97	761.2	55	12.8		wnw.			6		10		wnw.	1 h'r	1 h'r	h'vy	wnw	cloudy.
S. S. England, N. 40° 27′, W. 72° 22′	30.29	769.4				s.			3		0			0	0	sm'h		clear.
S. S. Erin, N. 48° 02′, W. 31° 33′	29.75	755.6	53	11.7		w.			7		4		wnw.	2 h'r	2 h'r	h'vy	wnw.	squally.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Saratoga, Sagua la Grande†	30.32	770.1	84	28.9	87	calm			0		0			2 h'r	2 h'r			clear.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 30° 35′, W 79° 01′†	30.28	769.1	82	27.8	91	nw.			2		5		s.	1 h'r	1 h'r	hv'y	se.	showery.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. State of Nebraska, N. 43° 05′, W. 57° 10′†	30.36	771.1	62	16.7												sm'h		clear.
NORTH GERMAN LLOYD.																		
S. S. America, N. 49°40′ ,W. 23° 10′*	29.54	750.3	57.2	14.0		w.			7		5		wnw.	3 h'r	3 h'r	long	w.	showery.
S. S. Gen. Werder, N. 49° 20′, W. 23° 05′	29.57	751.1				w.			6		6		w.	0	0	r'gh	w.	cloudy.
S. S. Habsburg, N. 40° 47′, W. 56° 46′.	30.33	770.4	68.0	20.0		ne.			4		8		ne.	0	0	sm'h	ne.	fair.
S. S. Hohenzollern, 48° 32′, W. 12° 56′*	29.08	753.9	59.9	15.5		w.			3–4		9?		w.	0	0	mod.	w.	clear?
S. S. Ohio, Bremerhaven, Germany	29.88	758.9				nw.			3		5		nw.	4 h'r	4 h'r			fair.
S. S. Salier, N. 44° 20′, W. 35° 39′	30.07	763.8	54.5	12.5		nw.			6		8		nw.	1 h'r	1 h'r	r'gh	nw.	cloudy.
S. S. Strassburg, N. 41° 47′, 52° 44′	30.27	768.8	80.0	26.7	74	e.			4		0			2 h'r	2 h'r	sm'h	ene.	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 43° 41′, E. 157° 18′*†	29.98	761.5	55	12.8	100	ene.			4		10		e.	fog	fog	sm'h		foggy.
S. S. Belgic, San Francisco, Cal.†	30.08	764.0	58	14.4	81	sw.			2		2		wsw.					clear.
S. S. Gaelic, N. 39° 23′, W. 131° 52′†	30.19	766.8	62	16.7	83	n.			4		9		nw.			sm'h		cloudy.
S. S. Oceanic, N. 26° 38′, E. 123° 13′*	29.74	755.4	84	28.9	91	ese.			4		10		se.			3	sw.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 34′, W. 77° 40′†	30.19	766.8				e.			1		10?		e.	0	0	sm'h		clear.?
S. S. City of Columbus, Savannah, Ga.†	30.04	763.0				nw.			3		0			0	0			clear.
S. S. Seminole, N. 40° 50′ W. 72° 05′†	30.32	770.1	69	20.6	84	se.			1		1		sw.	0	0	sm'h	s	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N 43° 09′ W. 124° 33′†	30.14	765.5	54	12.2	86	ene.			1		10					sm'h		gloomy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, Santa Barbara, Cal.†	30.04	763.0	59	15.0	?	ese.			2		5		e.			sm'h		fair.
S. S. Idaho, N. 57° 35′, W. 134° 48′†	30.14	765.5	50	10.0	86	ne.			2		10		ne.					overcast.
S. S. State of California, Portland, Oregon†	30.11	764.8	55	12.8	87	calm			0		0							clear.
S. S. Victoria, N. 46° 06′, W. 124° 40′†	30.17	766.2	56	13.3	100	nw.			2		8			0	0	sm'h		foggy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	30.23	767.8	55	12.8	74	sw.			4		5?			0	0			clear?
S. S. City of New York, S. 14° 33′, W. 170° 09′†	29.93	760.2	80	26.7	74	e.			5		10		e.	1 h'r	1 h'r	mod.	se.	squally.
S. S. City of Pekin, N. 47° 23′, W. 156° 41′†	29.77	756.1	51	10.6	93	ne.			2		10		ne.	0	0	sm'h		misty.
S. S. City of Rio de Janeiro, N. 13° 53′, W. 91° 14′*†	30.18	766.6	78	25.6	82	ne.			2		7		ne.	2 h'r	2 h'r	long	s.	fair.
S. S. City of Sydney, S. 35° 47′, E. 174° 55′†	29.23	742.4	56	13.3	87	ese.			8		10		se.	0.25	6.3	hv'y	se.	heavy rain.
S. S. City of Tokio, N. 37° 16′, W. 151° 49′†	29.88	758.9	69	20.6	90	s.			6		8		sw.	2 h'r	2 h'r	small	sw.	fine.
S. S. Colon, N. 10° 54′, W. 78° 32′†	29.91	759.7	82	27.8		ne.			4		10		ne.	0	0	mod.	ne.	overcast.
S. S. Colima, N. 14° 20′, W. 92° 56′†	29.95	760.7	80	26.7	87	nw.			3		8		w.	2.20	55.9	small	se.	cloudy.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, N. 21° 15′, W. 64° 25′	29.95	760.7	82	27.8		ene.			3		10			0	0	mod.	e.	overcast.
S. S. Bermuda, Basse-Terre, W. I†	30.09	764.3	80	26.7		e.			2		9		ne.	hv'y	h'vy	sm'h		cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Belgenland, N. 46° 50′ W. 27° 19′†	29.89	759.2	65	18.3	78	nw.			8		4		w.	1 h'r	1 h'r	hv'y	wnw.	fair.
S. S. Nederland, N. 47° 10′, W. 24° 18′†	29.91	759.7	63	17.2	97	w.			6		5?		w.	0	0	cross		clear ?
S. S. Rhynland, Jersey City, N. J	30.27	768.8	71	21.7	80	ssw.			2		2		ssw	0	0			clear.
S. S. Vaderland, N. 49° 41′, W. 7° 25′	29.60	751.8	61	16.1	88	sw.			4		10		sw.	2 h'r	2 h'r	mod.	wsw.	overcast
ROTTERDAM LINE.																		
S. S. P. Caland, N. 42° 45′ W. 40° 30′	30.12	765.0	65.5	18.6	80	wnw.			3		9 n		w.			mod.		rainy.
S. S. W A Scholten, New York, N. Y	29.98	761.5	76.5	24.7	88	ese.			4		5		ese.	0	0			fair.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.54	750.3	62	16.7		ssw.			4		6		ssw.	1 h'r	1 h'r			fair.
S. S. State of Georgia, N. 55° 17′ W. 6° 30′†	29.55	750.6	60	15.6		sse.			6		10		sw.	0	0	sm'h		cloudy.
S. S. Indiana, N. 42° 30′, W. 52° 54′†	30.59	777.0	61	16.1		e.			2		0			0	0	sm'h		clear.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	29.99	761.7	83.3	28.5		sw.			1		3		sw.	0	0			clear.
WARREN LINE																		
S. S. Iowa, N. 51° 01′, W. 13° 29′*†	29.60	751.8	56	13.3		sw.			6		10		sw.	7 h'r	7 h'r	mod.	sw.	cloudy.
WHITE STAR LINE.																		
S. S. Baltic, N. 50° 34′, W. 18° 56′†	29.53	750.0	58	14.4	94	wsw.			6		8		w.	2 h'r	2 h'r	5	wnw.	showery.
S. S. Britannic, N. 40° 52′, W. 62° 21′†	30.38	771.6	70	21.1	61	ene.			3		0					sm'h		blue sky
S. S. Celtic, Liverpool, Eng†	29.79	756.7	65	18.3	84	ssw.			3		10		ssw.	8 h'r	8 h'r			cloudy.
S. S. Germanic, N. 48° 01′, W. 30° 20′†	29.86	758.4	58	14.4		wnw.			7		4		wnw.			r'gh	wnw.	d. clouds.
S. S. Republic, Liverpool, England†	29.87	758.7	65	18.3	94	sw.			4		5		sw.	sh'rs	sh'rs			d. clouds.
WINSOR LINE.																		
S. S. Catherine Whiting, Delaware River†	30.28	769.1	70	21.1		se.								0	0			
MISCELLANEOUS.																		
Schr. Ajax, N. 28° 23′, W. 92° 37′†	30.27	768.8				sse.			1		4		se.	0	0	sm'h	se.	fair.
Bk. Alpha, New York, N. Y†	30.21	767.3	74	23.3		se.			1		5?		se.	0	0			cloudy?
Schr Annie Lewis, Aransas Pass, Texas†	30.21	767.3	83	28.3		sse.			2		5?		sse.	0	0	long	sse.	cloudy?
Bk. Anna Thormann, S. 39° 27′ E. 21° 55′	29.89	759.3	60.3	15.7	79	w.			7		10 n		w.	shr's	shr's	high	wsw.	misty.
S. S. Antonio Lopez, N. 25° 22′, W. 36° 21′	30.21	767.3	78.5	25.8	73	ene.			3		3			0	0	mod.		fair.
Bk. Argonaut, N 53° 23′ W. 26° 44′*†	29.30	744.2	55.4	13.0		calm			0		10			1 h'r	1 h'r	high	w.	cloudy.
Schr. Asa Eldridge, Punta Rassa, Fla†	30.17	766.3				se.			2		2		sse.	0	0			fair.
S. S. Burswell, N 41° 36′, W. 41° 13′*†	30.18	766.6	71	21.7		ene.			2		10		ne.	3 h'r	3 h'r	mod.	nw.	rainy.
Bk. Cato, N. 61° 31′, E. 0° 02′*†	29.95	760.7				sse.			4		5		sse.	0	0	mod.	se.	foggy.
Bk. Celestina, S. 32° 12′, W. 35° 05′*†	30.25	768.3				sw.			1		10			2 h'r	2 h'r	hv'y	n	
Schr. C. R. Flint, Cedar Keys, Florida†	30.30	769.6	82	27.8		sw.			2		8		sw.	0	0			cloudy.
S. Cornelius, N. 39° 19′, W. 49° 00′*†	30.40	772.1	73	22.8		ne.			3		10		e.	2 h'r	2 h'r	mod	ne.	cloudy.
S. S. D. S. Foley, N. 30° 22′, W. 74° 15′†	30.13	765.3				sse.			4		2		se.	14 h'r	14 h'r	mod	ssw.	clear.
Schr. Edith R. Seward, Ponce, Porto Rico, W. I*†	30.13	765.3	88	31.1		ene.			1		2		e.	0	0			clear.
S. E. J. Spicer, New York, N. Y.*	29.92	760.0	73	22.8		wsw.			3		5		w.	0	0			
Bk. E. L. Pettingill, N. 39° 35′, W. 136° 21′†	30.30	769.6				ne.			2		fg.			0	0	sm'h		foggy.
S. Enoch Train, N. 39° 00′, W. 49° 07′*†	30.28	769.1				ne.			4		10		ne.	5 h'r	5 h'r	light	ne.	rainy.
Bk. Essex, S. 38° 35′ E. 12° 30′*†	30.24	768.1	56	13.3		w.			5		8		wsw.	0	0	h'vy	wsw.	cloudy.
Bk Freya, N. 38° 28′ W. 72° 52′						se.			2		0			0	0	sm'h		fair
S. Grecian, Hong Kong, China*†	29.30	744.2	84	28.9		ene.			9		10		se.	2 h'r	2 h'r			
Bk. Hattie G. McFarland, Delaware Bay*†	30.28	769.1	71	21.7		se.			1		3		se.	0	0			fair.
S. Hedwig, N. 40° 53′, E. 18° 14′	29.89	759.2	80.1	26.7	79	sse.			4		3		sse.	0	0	sm'h	se.	
Bk. Horace Scudder, N. 26° 09′, W. 57° 41′†	30.21	767.3	82	27.8		se.			2		2		se.	5 h'r	5 h'r	mod.	ne.	blue sky.
S. Ivy, N. 8° 15′, W. 124° 30′†	30.13	765.3	77	25.0		sse.			5		2		sse.	0	0	r'gh	se.	clear.
S. Isinir, S. 41° 00′, E. 71° 58′†	29.72	754.9				sw.			10		6		sw.	2 h'r	2 h'r	10	sw.	hy storm.
Schr. James Slater, Para, Brazil*†	30.23	767.8	83	28.3		calm			0		0			0	0			clear.
Schr. Jennie N. Huddell, Boston, Mass†	30.42	772.7	68	20.0	94	ssw.			3		0			0	0			clear.
Bk. Johanne, N. 52° 20′, W. 31° 00′*†	29.36	745.7	53	11.7		wnw.			7		8		nw.	h'vy	h'vy	h'vy	sw.	threatening
Schr. John L. Thomas, N. 21° 35′, W. 84° 55′*†	30.12	765.0				nne.			2		2		e.	0	0	mod	ene.	clear.
Bg. John Wesley, N. 24° 41′ W. 72° 12′†	29.97	761.2				ene.			3		1		ene.	0	0	mod	ese.	clear.
Bk. Joseph A. Ropes, S. 2° 41′, W. 27° 46′*†	30.11	764.8	79	26.1	86	ese.			5		4		ese.	0	0	mod.	se.	fair.
Bkt. Josephine, N. 33° 10′ W. 74° 02′†	30.19	766.8	81	27.2	74	sse.			3		10		sw.	5 h'r	5 h'r	mod	s.	light rain.
Bkt. Kryolith, N 45° 47′ W. 52° 11′*†	30.30	769.6				sse.			3		fg.					long	e.	foggy
S. S. Lamperts, N. 42° 45′, E. 6° 09′*	29.89	759.2	66.5	19.2	78	wnw.			7		0							blue sky.
Light House Tender, Laurel, Appalachicola Bay, Fla†	30.18	766.6	83	28.3		ne.			1		5		ne.	0	0			fair.
Bk. Liberia, N. 11° 39′, W. 26° 00′*	30.01	762.2	80	26.7	82	nnw.			3		5		nnw.	0	0		sw.	
S. S. Madrid, N. 39° 18′, W. 64° 45′*†	30.46	773.7	74	23.3		ene.			4		1		e.	0	0		e.	
S. S. Malabar, N. 39° 27′, W. 124° 00′*†	30.07	763.8				se.			2		fg			0	0			dense fog.
S. S. Nebo, Off Land's End, Eng*†	29.75	755.6				wsw.			4		8?		wsw.	0	0	cross	var.	clear.?
S. Orealla, N. 35° 58′, W. 53° 30′*	30.16	766.1	82	27.8		w.			3		2		wsw.	0	0	sm'h	sw.	clear.
S. Paramita, S. 6° 04′ W. 112° 00′†	29.86	758.4	79	26.1		se.			5		0			0	0	cross		clear.
S. S. Ponca, N. 34° 33, W. 71° 45′†	30.23	767.8	84	28.9		se.			1		5		s.	2 h'r	2 h'r	light	cross	fair.
S. S. Sunbeam, Odessa, Russia	29.80	756.9	80	26.7	58	sse.			3		6		s.					d. clouds.
S. Sovereign of the Sea, S. 1° 19′, W. 29° 13′*†	29.99	761.7	80	26.7	86	e.			4		3		e.	0	0	long	se.	clear.
Bg. Teneriffe, Cardenas, Cuba, W. I	30.05	763.3				se.			1									
Bk. Truro, N. 41° 40′, W. 38° 40′*†	30.10	764.5				wnw.			1		10		nw.	3 h'r	3 h'r	sm'h		misty.
U.S.F.C.S.S. Fish Hawk, Washington, D. C†	30.47	773.9	84	28.9	91	se.			1		3		calm	0	0			clear.
Schr Viola Reppard, Baltimore, Md†	29.99	761.7	80	26.7		ssw.			2		3			0	0			
Bk. Wm. Wilcox, S. 34° 45′ W 52° 50′*†	30.33	770.4	56	13.3		sw.			3		5		sw.	4 h'r	4 h'r	mod.	w.	clearing.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 18, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.03	762.8	77.0	25.0	76	s.			3		4			0	0	cloudy	Bouvier.
Algiers			30.07	763.8	79.9	26.6	61	ne.			2		0			0	0	clear	Nicolas.
La Galle			30.06	763.6	80.6	27.0	61	ene.			2		2			0	0	fair	Fonfrède.
Tunis			30.06	763.4															Jacques.
Saida			30.08	764.0	97.7	36.5	42	sw.			2		9			0	0	covered	Perès.
Tebessa			30.08	764.0	86.7	30.4	17	wnw.			1		0			0	0	clear	Derché.
Geriville					98.2	36.8	0	ssw.			4		1			0	0	very fair	Louchamp.
Laghouat			30.10	764.6	101.8	38.8	33	ne.			2		0			0	0	clear	Abraham.
Biskra			30.10	764.4	94.6	34.8	33	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.42	772.6	30.51	774.9	44.0	6.7	94	s.	3	1.3			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.47	748.4	29.99	761.7	79.2	26.2	52	n.			2		7			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.18	741.1	29.92	760.0	70.5	21.4	87	w.	12.5	5.6			10			1.004	25.5		Dr. Wierzbiski.
Eperies	29.01	736.8	29.85	758.3	69.8	21.0	87	calm			0		10 s			0.177	4.5		Julius Mikolik.
Gratz	28.78	730.9	29.97	761.3	75.0	23.9	75	nw.			4		2			0.520	13.2		Andreas Rospini.
Hermannstadt	28.44	722.4	29.79	756.6	78.4	25.8	55	nw.			3		10			0.024	0.6		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.78	731.1	30.09	764.3	69.1	20.6	69	nw.			1	0	7 k			0	0	cloudy	The Staff.
Lemberg	28.87	733.4	29.82	757.3	73.8	23.2	75	ne.			1		9			0.126	3.2		Dr. T. Stanecki.
Pola	29.92	760.0	30.03	762.7	80.2	26.8	64	wnw.			3		0			0	0		I. R. Hydrographic Office.
Szathmar	29.35	745.6	29.80	756.8	79.3	26.3	59	w.			2		8			0.228	5.8	thnd'rstorm.	Joseph Midlinszky, S. J.
Szegedin	29.61	752.0	29.87	758.8	77.0	25.0	61	s.			1		7			0	0		Karl Stancel.
Trieste	29.93	760.2	30.03	762.8	83.5	28.6	51	sw.			1		3			0	0		Royal Academy.
Vienna	29.36	745.7	30.05	763.2	73.2	22.9	52	nw.			3		2			0.102	2.6		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.50	749.3	29.60	751.8	62.2	16.8	66	s.	19	8.5			5			0	0	blue sky	W. Boswell
Armagh, Observatory	29.32	744.7	29.55	750.6	58.0	14.4	79	s.	19	8.5			10					squally	S. Call.
Bidston, Liverpool Obs'y					65.0	18.3	73	ssw.	21	9.4			9					overcast	John Hartnup.
Bolton, Sharples	29.21	741.9	29.74	755.4	59.9	15.5	77	ssw.	24	10.7			8					d. clouds	Thomas Mackereth, [ton.
Bradford, Yorkshire	29.35	745.5	29.74	755.4	64.0	17.8	57	sw.			2		7			0.08	2.0	d. clouds	McLandsborough & Pres-
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	83.0	28.3	74	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.86	758.4	72.0	22.2	65	sw.			3.0		7					d. clouds	John McLaren.
Chatham, School M. E.	29.84	757.9	29.97	761.2	66.2	19.0	64	sw.			2		6			blank	blank	d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.66	753.4	29.89	759.2	63.6	17.6	78	s.			5		8					foggy	The Staff.
Fort Napier, Natal	27.88	708.1	30.10	764.5	67.8	19.9	32	e.			1		0					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.66	753.4	29.89	759.2	84.0	28.9	71	w.			6		3					raining	Sergt. John Robinson.
Gibraltar, Mediterranean	29.99	761.7	30.05	763.3	82.0	27.8	74	e.			3		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.40	746.7	29.60	751.8	59.5	15.3	94	s.			5		10n; k					threatening	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.75	755.6	29.92	760.0	63.9	17.7	67	sw.			4		8					d. clouds	The Staff.
Guernsey	29.71	754.6	30.00	762.0	65.0	18.3	78	sw.			1		6			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.89	759.2	29.93	760.2	66.2	19.0	60	ssw.	26	11.6			7					d clouds	The Staff.
Leicester, Museum	29.57	751.1	29.81	757.2	67.8	19.9	54	sw.			2		5					blue sky	J. C. Smith.
Malta, Mediterranean	29.89	759.2	29.97	761.2	82.0	27.8	57	nw.			2		0					d. clouds	H. Keene, A. H. C.
Nassau, Bahamas	30.13	765.3	30.17	766.3	85.0	29.4	70	e.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.31	744.5	29.81	757.2	66.6	19.2	58	ssw.			6		6					threatening	Warren Middleton.
Oxford, Radcliffe Obs'y	29.65	753.1	29.88	758.9	64.4	18.0	73	s.			6		6					overcast	The Staff.
Plymouth	29.82	757.4	29.89	759.2	65.0	18.3	76	ssw.			3		10						John Merrifield.
Sandwick Manse, Orkneys																			Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.66	753.4	29.73	754.9	95.2	35.1	34	ne.			1		1					blue sky	W. H. Lyne.
Sheffield	29.41	747.0	29.68	753.9	68.4	20.2	77	sw.			3		9			0.03	0.8	overcast	W. F. Cooper.
Silloth Rectory	29.64	752.8	29.67	753.6	63.0	17.2	73	wsw.			5		8			0.140	3.6	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.77	756.1	60.3	15.7	68	sw.	19	8.5			10					overcast	Rev. S. J. Perry.
Stratfield Turgiss	29.71	754.6	29.92	760.0	64.2	17.9	69	sw.			3		9					showery	Rev. C. H. Griffiths, F. M. S
Truro, Royal Institution	29.86	758.4	29.87	758.7	65	18.3	68	sw.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.54	750.3	29.57	751.1	59.5	15.3	79	s.	45	20.1			5			blank	blank	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.03	762.7	30.07	763.8	65	18.3	75	sw.	15	6.7		c	0	w.		0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.95	760.7	30.00	762.0	63	17.2	81	sw.	10	4.5		2 cs	2 k	sw.	sw.	0	0	fair	G. A. Blair.
Father Point, Quebec*	29.88	758.9	29.91	759.7	59	15.0	81	w.	25	11.2		0	2 ks		calm	inap.	inap.	clear	J. McWilliams.
Fort Garry, Manitoba*	29.20	741.7	30.02	762.5	51	10.6	86	nw.	9	4.0		2 cs	5 k	nw.	nw.	0.010	0.3	fair	James Stewart.
Halifax, N. S*	30.06	763.5	30.19	766.8	63	17.2	93	sw.	5	2.2			10 n		w.	0	0	cloudy	A. Allison.
Kingston, Ontario*	29.67	753.0	29.99	761.7	67	19.4	97	sw.	3	1.3			10 ks		sw.	0.12	3.0	light rain	A. P. Knight, M. A.
Montreal, Quebec*	29.81	757.2	30.00	762.0	70	21.1	84	w.	6	2.7		8 ck	2 ks	sw.		0.03	0.8	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.27	743.4	29.94	760.5	64	17.8	73	se.	6	2.7		2 k	2 ks	w.	w.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.30	744.2	29.99	761.0	67	19.4	95	calm	0	0			10 n		sw.	0.05	1.3	threatening	H. Morgan.
Port Stanley, Ontario	29.33	745.0	29.95	760.7	69	20.6	93	e.	6	2.7		5 ck?	0	sw.		0	0	cloudy?	M. Payne.
Quebec, Quebec*	29.72	754.9	30.03	762.7	67	19.4	84	w.			1	0	2 s		w.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.55	750.6	30.00	762.0	56	13.3	83	e.	2	0.9		2 c	0	sw.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.21	741.9	29.90	759.4	63	17.2	97	s.	20	8.9		0	0			0	0	clear	
St. Andrews, N. B	30.05	763.3	30.10	764.5	58	14.4	94	s.	3	1.3			fg.			0	0	foggy	
Sydney, C. B*	30.05	763.3	30.11	764.8	64	17.8	78	sw	31	13.9		3 c	1 k	w.	sw.	0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.61	752.1	29.98	761.5	66	18.9	65	calm	0	0			10 n		sw.	inap.	inap.	light rain	Magnetic Observatory.
Yarmouth, N. S*	30.12	765.0	30.19	766.8	57	13.9	100	sw.	8	3.6			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
Mount Forest	28.58	725.9	30.00	762.0	63.0	17.2	94	sw.			3		fg.		wsw.	0	0	dense fog	Wm. Wylie.
St. Johns, Newfoundland	30.03	762.7	30.27	768.8	71	21.7	71	sw.	4	1.8		0	0			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.33	770.4	30.36	771.1	63.0	17.2	82	w.	19.0	8.5		4 c	0			0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.30	769.6	30.34	770.6	63.8	17.7	80	sse.	19	8.5		0	0			0.065	1.6		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (Sub-series).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.65	753.2	29.68	753.9	82.4	28.0	87	se.	6.0	2.7			2			0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.90	759.5	29.95	760.7	69.4	20.8	59	nw.	13	6			7						Oversergent Fischer.
Fanöe	29.91	759.7	29.93	760.2	68.0	20.0	71	ssw.			4		3						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.43	747.4	29.47	748.5	44.2	6.8	87	e.			6		10					raining	A. O. Thorlacius.
Thorshavn	29.41	746.9	29.44	747.8	55.2	12.9	93	ese.	16	7			10					raining	Overloerer Bergh.
Vestervig	29.82	757.3	29.91	759.6	66.6	19.2	74	sw.			4		3						Loearer Oesterbol.
French.																			
Agen, Normal School	29.53	750.0	30.19	766.8	73.4	23	58	calm			0		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.56	750.8	30.11	764.8	68.0	20	72	ssw.			2		kn		ne.	0.063	1.6		M. Nicot, Director.
Arras, Engineer School	29.66	753.4	29.91	759.7	68.7	20.4	55	?			3		k			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.98	761.5	30.06	763.5	80.6	27	43	nnw.			2		0			0	0	clear	M. Girand, Director.
Bar-sur-Seine	29.60	751.8	30.13	765.4	71.2	21.8	57	sw.			1		8		w.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.81	757.2	30.07	763.7	72.9	22.7	47	sw.			2		8	w.	sw.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.24	742.8	30.11	764.9	74.1	23.4	44	ssw.			1	2 ck	0	se.		0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.87	758.7	30.12	765.1	76.6	24.8	44	ssw.			1		1			0	0	Al. clear	M. Rayet, Director.
Bourges, Normal School	29.62	752.3	30.15	765.9	73.0	22.8	53	sw.			2		k		sw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.79	756.6	30.03	762.8	64.8	18.2	80	sw.			3		9		sw.	0.079	2.0	misty	M. de Kermaree, Dir.
Caen, Normal School	30.01	762.3	30.08	764.1	67.5	19.7	69	sw.			3		5		sw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.70	754.4	30.01	762.2	71.2	21.8	67	ssw.			2		8	w.	w.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.58	751.4	30.08	764.1	66.2	19	72	w.			3					0	0		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.82	731.9	30.11	764.8	77.4	25.2	58	ne.			1		5			0	0	⅗ covered	M. Allnard, Director.
Cluny, Normal School	29.34	745.1	30.16	766.0	72.3	22.4	43	nw.			1		4		w.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.30	744.3	30.15	765.8	67.5	19.7	65	w.			1		5 kn	w.	w.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.60	701.0	30.02	762.4	78.4	25.8	31	n.					0			0	0		M. Jeanglirard, Director.
Gréasque, du Rhone	28.97	735.8	30.03	762.8	83.3	28.5	27	nw.			2	0	0			0	0	clear	M. Kina, Director.
Grenoble, Normal School	29.36	745.7	30.10	764.5	74.5	23.6	56	nnw.			1		2 k			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.61	726.8	30.15	765.9	66.9	19.4	60	w			1	0	2 k		wsw.	0	0	slightly cld'y	M. Rivoire, Director.
Lamballe, Normal School	29.79	756.6	30.06	763.4	69.1	20.6	53	s.			4		5		s.	0.016	0.4	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.57	751.0	30.11	764.9	72.7	22.6	63	e.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.98	761.6	30.09	764.2	67.6	19.8	77	s.			2		10		sw.	0.079	2.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.13	739.9	30.16	766.0	72.5	22.5	42	n.			1		0			0	0	clear	M. André, Director.
Mans, Normal School	29.78	756.3	30.08	763.9	69.4	20.8	52	sw.			1		2		wsw.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.60	751.7	29.86	758.4	79.2	26.2	35	wsw.			2		0			0	0		M. Stephan, Director.
Montlouis	25.02	635.6	29.87	758.6	66.2	19.0	48	e.	9.4	4.2			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.95	760.6	30.07	763.8	84.2	29	38	nw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.37	746.1	30.14	765.5	68.4	20.2	72	s.			1		k		w.	0	0		M. Hasse, Director
Nantes, Observatory	29.97	761.1	30.13	765.2	72.9	22.7	63	sw.			2–3	0	9 k; kn		ssw.	0.043	1.1		M. Larocque, Director.
Perpignan, Observatory	30.01	762.3	30.12	765.0	80.6	27.0	35	ne.	5.6	2.5			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.49	545.9			50.7	10.4		sw.			1		0			0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.11	739.3	30.13	765.4	75.9	24.4	37	s.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.37	644.3			52.9	11.6	86	sw.			1	0	8 k			0	0	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.07	763.8	30.10	764.6	77.0	25.0	100	wsw.			1		2		s.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.90	759.5	30.11	764.9	72.3	22.4	66	ssw.			3		8		ssw.	0	0	¾ covered	M. Mouillot, Director.
Rodez, Normal School	27.95	709.8	30.03	762.8	70.2	21.2	57	se.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.01	762.3	30.06	763.5	67.6	19.8	72	ssw.			1		5	ssw.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.92	759.9	30.08	764.1	72.5	22.5	50	s.			1		7		sw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.48	748.8	30.21	767.3	78.8	26.0	56	ese.			1		0			0	0	clear	M. Baillaud, Director.
Tours	30.08	764.1	30.26	768.6	75.6	24.2	50	sw.			2		8	sw.	sw.	0	0	very cloudy	M. de Tastes.
Versailles, Observatory	29.60	751.7	30.09	764.2	71.6	22.0	49	sw.			2					0	0		Dr. A. Berigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.80	756.8	30.09	764.2	74.7	23.7	50	sw.			1		7		sw.	0	0		M. Marié Davy, Director
German.																			
Ansbach	28.71	729.2	30.12	765.0	70.5	21.4	49	w.			4		4	w.		0.079	2.0		Prof. Jnedt.
Bamberg	29.27	743.4	30.12	765.1	72.0	22.2	50	wsw.			1	0	5 k		sw.	0	0		Prof. Dr. Roh.
Berlin	29.99	761.7	30.16	766.1	77.0	25.0	42	sw.			2		8			0	0		Prof. Dr. Arndt.
Breslau	29.54	750.4	30.08	763.9	67.3	19.6	58	nnw.			2		10			0.067	1.7		Royal University Obs'y.
Carlsruhe	29.70	754.4	30.13	765.3	73.0	22.8	53	sw.			4		1	sw.		0	0		Albert Senz.
Cassel	29.32	744.8	30.04	762.9	75.7	24.3	50	s.			4		8	s.		0.008	0.2		Dr. H. Möhl.
Frankfort-on-the-Main	29.74	755.4	30.09	764.2	73.4	23.0	53	sw.			1		8			0.004	0.1		Physical Society.
Friedrichshafen	28.73	729.7	30.13	765.3	67.3	19.6	71	sw.			1		1	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.94	760.4	30.03	762.8	72.7	22.6	50	sw.			4		5			0	0		E. Preller.
Kiel	29.96	760.9	29.97	761.3	71.1	21.7	55	ssw.			3		6			0	0		Prof. Dr. G. Karsten.
Leipsic, Astrom'l Obs'y	29.66	753.3	30.06	763.5	77.7	25.4	38	w.			2		7	w.		0.106	2.7		H. Leppig, Asst.
Magdeburg	29.85	758.2	30.08	762.8	75.4	24.1	43	w.			3	0	5 k; ks		sw.	0	0		Dr. Assmann.
Memel	29.86	758.5	29.91	759.7	78.1	25.6	67	wnw.			2	0	1 k						Isserinann.
Munich	28.35	720.1	30.22	767.7	70.3	21.3	52	calm			0		4	w.		0.067	1.7		Dr. C. Lang.
Neufahrwasser	29.95	760.8	29.97	761.2	65.1	18.4	88	nw.			1		7			0.339	8.6		A. Lothes.
Neustadt, Palatinate	29.78	756.4	30.32	770.0	71.6	22.0	57	w.			2		1	w.		0	0		Dicknether.
Stuttgart	29.18	741.2	30.04	763.1	71.6	22.0	59	n.			3		2	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.04	762.9	30.06	763.5	69.8	21.0	64	w.			2	0	8 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.39	746.4			88.7	31.5		sw.			3.0		2			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.41	747.1	29.46	748.4	84.9	29.4	76	wsw.	30.0	13.4			6		w.	0	0	d. clouds	
Deesa	28.95	735.4	29.42	747.1	84.6	29.2	76	wsw.	10.5	4.7			9	sw.		2.04	51.8	d. clouds	
Bombay	29.56	750.8	29.60	751.8	78.9	26.1	91	wsw.	30.0	13.4			10		w.	0.95	24.1	overcast	
Poona, Yarrowda	27.74	704.5	29.60	751.6	72.4	22.4	90	wsw.	23.0	10.3			10		wsw.	0.17	4.3	overcast	
Trichinopoly	29.45	748.0	29.73	755.1	87.6	30.9	44	w	7.0	3.1			10			0	0	overcast	
Bellary	28.19	716.0	29.64	752.8	83.0	28.3	51	w.	16.3	7.3			10	s.		0	0	gloomy	
Belgaum	27.14	689.4	29.70	754.2	69.6	20.9	91	wsw.	14.0	6.3			9	e.	sw.	1.10	27.9	showery	
Lahore	28.55	725.2	29.25	743.0	99.2	37.3	48	e.	1.9	0.8			5			0	0	d. clouds	
Roorkee	28.52	724.3	29.40	746.8	80.6	27.0	90	se.	3.7	1.6			8			1.26	32.0	gloomy	
Agra	28.82	732.0	29.38	746.1	81.3	27.4	87	e.	2.2	1.0			10		e.	0.11	2.8	overcast	
Nagpur	28.42	721.8	29.45	748.0	77.7	25.4	90	w.	4.4	2.0			10			2.01	51.0	overcast	
Jubbulpore	28.08	713.1	29.42	747.2	77.8	25.4	90	nw.	4.6	2.1			10			1.45	36.8	overcast	
Lucknow	29.00	736.5	29.36	745.7	90.1	32.3	62	calm	1.7	0.8			0			0	0	blue sky	
Allahabad	29.04	737.6	29.35	745.4	84.7	29.3	82	calm	2.2	1.0			10			0	0	overcast	
Patna	29.24	742.6	29.42	747.1	89.2	31.8	64	e.	6.7	3.0			6	e.	e.	0	0	d. clouds	
Hazaribagh	27.42	696.4	29.38	746.3	81.8	27.7	73	e.	8.0	3.6			10		e.	0	0		
Cuttack	29.30	744.2	29.38	746.2	78.0	25.6	95	wsw.	0.5	0.2			10			5.20	132.1	raining	
Calcutta, Alipore	29.33	744.8	29.35	745.4	82.2	27.9	87	ese.	10.0	4.5			8		se.	0.06	1.5	d. clouds	
Dhubri	29.37	746.1	29.49	749.1	77.6	25.3	89	n.	4.7	2.1			10			0.72	18.3	thund'r st'm	
Chittagong	29.33	745.0	29.42	747.2	85.9	29.9	76	se.	5.5	2.5			6			0	0	d. clouds	
Sibsagar	29.17	741.0	29.50	749.3	85.0	29.4	78	ne.	2.2	1.0			7	w.	w.	0.05	1.3	d. clouds	
Jeypore	28.03	711.9	29.46	748.2	78.5	25.8	95	se.	2.1	0.9			10		se.	0.12	3.0	overcast	
Zanzibar, Africa	30.08	764.0			80.7	27.1	62	s.	6.0	2.7			7		se.	0	0	d. clouds	
Italian.																			
Udine	29.64	752.8	30.03	762.7	82.6	28.1	41	s.	1.3	0.6			1			0	0		Prof. Giovanni Clodig.
Milan	29.55	750.5	30.04	763.1	82.0	27.8	45	wsw.	3.1	1.4			0			0	0		Prof. Schiaparelli.
Padua	29.92	760.0	30.03	762.7	82.8	28.2	37	ssw.	3.1	1.4			1	n.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.16	740.6	30.02	762.6	80.2	26.8	38	e.	3.8	1.7			0			0	0		Prof. P. F. Denza.
Genoa	29.90	759.4	30.08	764.1	74.1	23.4	68	sw.	4.3	1.9			0			0	0		Prof. G. M. Garibaldi.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Mondovi	28.18	715.8	30.01	762.3	76.8	24.9	48	n.			2		1	s.		0	0		Prof. D. C. Bruno.
Pesaro	29.99	761.7	30.04	762.9	74.1	23.4	75	n.	9.4	4.2			0			0	0		Prof. Luigi Guidi.
Florence	29.80	756.9	30.04	763.1	79.2	26.2	52	nw.			2		0			0	0		Prof. Costantino Pitter
Leghorn	29.92	760.0	30.00	762.1	73.6	23.1	67	w.	7.4	3.3			0			0	0		Prof. P. Monte.
Rome	29.83	757.6	30.00	761.9	84.7	29.3	30	nw.	6.3	2.8			0			0	0		Prof. P. S. Ferrari.
Lecce	29.69	754.0	29.93	760.1	77.4	25.2	56	nw.	21.0	9.4			0			0	0		Prof. C. de Giorgi.
Cosenza	29.08	738.7	29.93	760.3	81.7	27.6	71	sw.	3.8	1.7			0			0	0		Prof. D. Conti.
Cagliari	29.85	758.1	30.03	762.8	82.2	27.9	29	nw.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.81	757.2	30.05	763.3	77.9	25.5	50	nne.	6.3	2.8			0			0	0		Prof. G. Cincciatore.
Syracuse	29.87	758.7	29.91	759.8	81.0	27.2	55	ne.	13.0	5.8			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.47	748.5	29.97	761.2	80.6	27.0	59	se.	0	0			2	e.		0.181	4.6		Prof. T. Brioschi.
Sielvio	22.37	568.1			53.2	11.8	45	ne.			2		0			0	0	clear	Prof. P. F. Denza.
Valdobbia	22.44	569.9			55.0	12.8	64	ne.			2		3			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.58	751.3	29.59	751.6	66.5	19.2	88	calm	0	0			10			0	0	covered	
Hiroshima, I. M. Obs'y					76.6	24.8	87	nw.	1.8	0.8			10 n					light rain	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.54	750.3	29.71	754.6	74.7	23.7	94	n.	2.6	1.2			10 s			0.109	2.8	cloudy	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.55	750.6	29.75	755.6	77.0	25.0	88	s.	3.9	1.7			10 s			0	0	overcast	S. Takehayashi.
Nemuro	29.60	751.8	29.66	753.3	55.0	12.8	86	n.	6.0	2.7		10	0			1.260	32.0	foggy	
Niigata	29.66	753.3	29.69	754.1	68.2	20.1	94	s.	2.4	1.1			10 cks		sw.	0.440	11.2	overcast	M. Morita.
Nobiru	29.61	752.0	29.62	752.4	72.5	22.5	82	nnw.	7.6	3.4		0	9 s			0	0	cloudy	H. Midzushina.
Osaka																			
Sapporo					65.0	18.3	99	n.	1.8	0.8			10			0.620	15.7	raining	
Tokei Obs'y, Yeddo	29.60	751.8	29.67	753.6	75.7	24.3	92	ssw.	4.9	2.2		0	5ks;ck		w.	0.271	6.9	fair	The Staff.
Wakayama	29.67	753.6	29.72	754.9	79.3	26.3	75	calm	0	0			10			0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	30.07	763.8	30.26	768.6	71.0	21.7	60	e.	21.5	9.6		0	2 k;ks			0.05	1.3	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.77	603.7	29.99	761.7	58.8	14.9	76	ese.				0	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.03	762.7	58.6	14.8	84	nnw.			1	2 c	0	ne.		0	0	fair	Prof. M. Leal.
Mazatlan	29.71	754.7	29.97	761.2	79.0	26.1	86	wnw.	1.6	0.8		0	8 n		ese.	inap.	inap.	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.19	589.1	30.25	768.4	53.2	11.8	78	w.	0.4	0.2		1 c	0			0	0	fine	The Staff.
Morelia	24.31	617.5	30.44	773.1	59.5	15.3	57	s.			2	4	2	s.	s.	inap.	inap.	½ cloudy	M. Tena, M. D
Orizaba	26.15	664.2	30.13	765.2	61.0	16.1	89	e.	1.7	0.8		0	0			0.028	0.7	foggy	Prof. M. M. Cházaro.
Pabellon, Aguascallentes	24.03	610.4	30.02	762.5	59.5	15.3	72	wsw.			2	1 c	0			0	0	fine	M. V. de Leon, M. E
Puebla, Catholic Institute	23.45	595.5	30.25	768.2	51.4	10.8	86	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.32	617.7	30.27	768.9	62.6	17.1	63	e.				3	0	w.		0	0	foggy	G. Barroeta, M. D
Zacatecas	22.75?	576.3?	30.32?	770.9?	57.4	14.1	79	e.	6.3	2.8		1 s	0			0	0	fine	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.00	762.1	30.00	762.1	68.5	20.3		wsw.			4					0.059	1.5		
Groningen	29.92	759.9	29.97	761.3	69.1	20.6		sw.			4					0	0		
Helder	29.93	760.2	29.93	760.2	64.8	18.2		ssw.			4					0	0		
Hellevoetsluis	29.99	761.7	29.99	761.7	67.8	19.9	72	wsw.			4					0.008	0.2		
Utrecht	29.95	760.8	30.00	762.0	70.9	21.6	63	ssw.			3		8			0.016	0.4	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.70	754.4	29.76	756.0	66.6	19.2	79	sw.	13	6			8			blank	blank		
Brono	29.70	754.4	29.74	755.4	61.2	16.2	81	n.	18	8			5			0	0		
Christiania	29.03	752.6	29.77	756.2	67.3	19.6	80	sse.	11	5			10			0.142	3.6		
Gjesvær	29.72	754.8	29.74	755.4	76.8	24.9		w.			6		9						
Lodingen	29.74	755.3	29.78	756.5	63.5	17.5	78	sw.			1		1			0	0		
PORTUGUESE.																			
Angra, Azores					72.7	22.6	88	wnw.	12.5	5.6			5			0	0		Dr. J. A. Sampaio.
Campo Major	29.08	738.6	30.02	762.5	91.4	33.0	21	calm	0	0			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.10	764.6	30.19	766.8	73.4	23.0	59	sw.	6.9	3.1			6			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.75	755.6	30.10	764.4	79.7	26.5	42	n.	12.5	5.6			0			0	0		The Staff.
Ponta Delgada, Azores	30.16	766.0	30.23	767.8	76.3	24.6	76	w.	8.1	3.6			3			0.039	1.0		
Saint Paul de Lotundo	29.85	758.3	30.06	763.5	68.5	20.3	90	nw.	0.7	0.3			0			0	0		
Serra da Estrella	25.48	647.1	30.04	763.0	67.6	19.8	46	e.	6.9	3.1			0			0	0		
RUSSIAN.																			
Akmolinski	28.41	721.6	29.41	747.1	78.1	25.6	46	nw.	22	10			9 kn			0	0		Major K. Lasarew.
Archangel	30.04	762.9	30.06	763.4	77.9	25.5	61	wsw.	4	2		0	2 ks			0	0		Capt. Sselliwerstow.
Astrakhan	29.89	759.1	29.80	757.0	96.1	35.6	28	s.	9	4		0	1 ks			0	0		Capt. Wisganow.
Barnaul	29.19	741.3	29.65	753.2	77.0	25.0	49	calm	0	0			7			0	0	light clouds	Meteorological Obs'y.
Dorpat	29.74	755.4	29.97	761.1	92.5	33.6	43	ese.	11	5		0	1 k			0	0		Observatory.
Ekaterinburg	28.81	731.8	29.74	755.4	65.3	18.5	47	nnw.	9	4		0	7 ks;n			0	0		Meteorological Obs'y.
Irkutsk	28.00	711.3	29.60	751.7	59.2	15.1	81	sse.	2	1			10 s;n			0.031	0.8		
Kasan	29.73	755.2	29.99	761.7	73.8	23.2	35	n.	13	6		9 c	0			0	0		Observatory.
Kertch	29.71	754.6	29.73	755.1	86.0	30.0	63	ne.	9	4		2 ck	0			0	0		Lagorio & Sastyrex.
Kieff	29.19	741.5	29.79	756.6	81.9	27.7	56	calm	0	0		0	5 k;ks			0	0		Observatory.
Lugan	29.61	752.1	29.80	756.9	95.2	35.1	22	ene.	13	6			5			0	0		Meteorological Obs'y
Moscow	29.57	751.0	30.01	762.2	82.2	27.9	35	sse.	4	2			0						Meteorological Obs'y.
Nikolaiev	29.74	755.5	29.82	757.3	90.7	32.6	46	sw.	9	4		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.57	751.1	29.71	754.7	82.9	28.3	72	calm	0	0		3 cs	0			0	0		Physical Observatory
St. Petersburg	30.01	762.2	30.02	762.6	89.6	32.0	39	sse.	7	3		0	4 k			0	0		Central Physical Obs'y
Semipalatinsk	28.98	736.2	29.58	751.4	88.3	31.3	46	calm	0	0			4			0	0		Major Lasarew.
Tashkend, Laboratory	28.05	712.4	29.49	749.1	89.4	31.9	41	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.38	720.9	29.69	754.1	97.0	36.1	16	se.	9	4		0	0			0	0		Physical Observatory
Vladivostock	29.63	752.6	29.70	754.3	64.8	18.2	85	nw.	4	2			10 n						
Warsaw	29.44	747.7	29.84	757.9	74.8	23.8	69	w.	22	10		0	8 ks						Astronomical Obs'y
Wilna	29.45	748.0	29.84	757.8	90.1	32.3	41	ese.	4	2			4			0	0		Berg, Assistant.
Yeniseisk	29.46	748.2	29.73	755.2	69.8	21.0	92	wnw.	2	1			1			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.00	762.0	30.10	764.6	77.9	25.5	70	s.	4.3	1.9			1					clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.02	762.4	30.08	763.9	86.0	30.0	44	nw.	2.7	1.2		0	0			0	0	clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.22	691.4	30.06	763.6	77.4	25.2	35	w.	4.0	1.8			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.92	709.2	30.02	762.6	86.5	30.3	35	se.	2.9	1.3		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director.
Santiago, Met. Obs'y	29.22	742.2	30.10	764.4	68.2	20.1	74	sw.	7.4	3.3			9			0	0	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I																			Benito Vines, S. J.
Manilla, Philippine Islands	29.81	757.1	29.86	758.5	80.2	26.8	85	sw.	13.2	5.9		3 c	7 ck	ne.	sw.	0.063	1.6	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.93	760.2	30.02	762.6	87.6	30.9	26	e.	20.1	9.0		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.97	761.2	30.06	763.5	79.9	26.6	82	calm	0	0		5 k	4 kn	se.	se.	0	0	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.70	754.4	29.83	757.7	81.9	27.7	85	nw.	9.2	4.1		0	6 kn		wnw.	0	0	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	29.93	760.2	29.97	761.2	74.8	23.8	60	s.			2		0			0	0		
Umea	29.89	759.3	29.95	760.6	81.3	27.4	56	s.			2		0			0.323	8.2		
Hernosand	29.82	757.3	29.87	758.6	72.3	22.4	69	s.			4		4			0	0		
Stockholm	29.65	753.1	29.83	757.6	78.1	25.6	59	se.			6		0			0	0		
Wisby	29.74	755.5	29.80	757.0	81.0	27.2	56	s.			4		0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Sub-series.																			
Upsala	29.68	753.9	29.77	756.1	83.5	28.6	51	s.	16.8	7.5			1			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.76	730.4	30.14	765.5	69.3	20.7	50	nne.			2					0	0	clear	The Observatory
SCOTTISH.																			
Monach Lt			29.41	747.0	59	15.0	94	s.			0.6		10			0.1	3.	showery	J. Youngclause.
North Unst			29.71	754.6				s.			7							hazy	
TURKISH.																			
Constantinople			29.77	756.2	85.6	29.8	41	ne.	8.9	4.0			0			0	0		The Observatory.
Valona			30.05	763.2	81.1	27.3		nw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.76	755.9	85.5	29.7	55	w.			3	0	1 k		w.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.00	762.0	30.08	764.0	73	22.8	76	s.	8	3.6			10 s		s.	inap.	inap.	cloudy	J. O. Barnes.
Alpena, Michigan	29.21	741.9	29.85	758.2	59	15.0	87	sw.	3	1.3		8 cs	2 ks	sw.	sw.	0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.09	637.3	29.83	757.7	54	12.2	86	ne.	4	1.8		0	0			0.03	0.8	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	27.24	691.9	29.97	761.2	53	11.7	74	sw.	4	1.8		3 c	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.94	735.1	30.09	764.3	71.0	21.7	90	w.	6	2.7		10 k	0			0.27	6.9	cloudy	H. Hall.
Atlantic City, New Jersey	30.05	763.3	30.06	763.5	75	23.9	88	ne.	4	1.8		6 k	0	n.		0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.92	760.0	30.11	764.8	77.0	25.0	76	se.	1	0.4			10 s			0.30	7.6	cloudy	John Healy.
Baltimore, Maryland	30.07	763.8	30.12	765.0	74	23.3	90	s.	4	1.8		0	7 k		s.	0	0	fair	Robert Seyboth.
Barnegat, New Jersey	30.05	763.3	30.07	763.8	72.0	22.2	90	e.	7	3.1		6 ck	2 k	sw.	w.	0	0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.41	721.6	29.95	760.7	59	15.0	93	sw.	4	1.8		2 c	2 s	calm	calm	0.06	1.5	fair	A. Pritchard.
Benton, Fort, Montana	27.25	692.1	29.96	761.0	54	12.2	80	calm	0	0		1 c	1 s			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	29.85	758.2	29.87	758.7	46.2	7.9		e.	2	0.9			fg.			0	0	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.29	718.6	30.01	762.2	56	13.3	86	n.	4	1.8		1 c	0			0.04	1.0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.11	764.8	30.14	765.5	69.1	20.6	90	se.	4	1.8		4 cs	6 ks	sw.	se.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.12	688.8	29.84	757.9	72	22.2	51	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.98	761.5	30.13	765.3	67.0	19.4	84	sw.	4	1.8			10s;hz		sw.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.03	762.7	79.3	26.2	91	s.	4	1.8		2 c	0	calm		0	0	clear	M. McCarty.
Buffalo, New York	29.25	742.9	29.98	761.5	67.3	19.6	89	s.	5	2.2			10 n		sw.	0.09	2.3	light rain	Wm. Finn.
Buford, Fort, Dakota	28.12	714.2	30.06	763.5	53	11.7	74	ne.	3	1.3		2 k	0	calm		0	0	clear	A. H. Bell.
Burlington, Vermont	29.75	755.6	30.03	762.7	70.0	21.1	79	s.	13	5.8		5 ck	2 s	w.	sw.	inap.	inap.	fair	G. C. Schaeffer.
Cairo, Illinois	29.67	753.6	30.06	763.5	74.8	23.8	83	calm	0	0		0	0			0.27	6.9	clear	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.25	692.1	29.84	757.9	78	25.6	41	nw.			1	2 cs	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.07	763.8	30.09	764.3	73	22.8	90	n.	6	2.7		0	2 k		n.	0.08	2.0	clear	A. K. Alderson.
Cape May, New Jersey	30.05	763.3	30.08	764.0	75.0	23.9	82	e.	2	0.9		0	5 k		e.	0	0	fair	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.11	764.8	30.13	765.3	82	27.8	82	s.	5	2.2		0	3 ks		s.	0.10	2.5	clear	F. W. Mixer.
Champaign, Illinois	29.16	740.7	29.95	760.7	67.8	19.9	68	nw.	4	1.8			10 s		w.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.05	763.3	30.10	764.5	82	27.8	74	sw.	3	1.3		9 ck	0	sw.		0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.20	741.7	30.03	762.7	74.0	23.3	71	se.	4	1.8			10 s		w.	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.27	743.4	30.07	763.8	70.0	21.1	93	sw.	5	2.2			10 ks		sw.	0.17	4.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.24	615.7	29.93	760.2	46.5	8.1	75	w.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.21	741.9	29.90	759.4	65.7	18.7	74	sw.	5	2.2			10 s			0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.07	763.8	30.09	764.3	72	22.2	100	calm	0	0		0	5 s			0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.33	745.0	29.97	761.2	73	22.8	82	sw.	3	1.3			10 s		sw.	0.02	0.5	cloudy	J. F. Harrold.
Cleveland, Ohio	29.25	742.9	29.97	761.2	67.8	19.9	91	se.	4	1.8		7 k	0	sw.		0.07	1.8	fair	J. B. Newlin.
Coleman City, Texas	28.32	719.3	30.08	764.0	65	18.3	93	s.	5	2.2		0	8 s			0.09	2.3	cloudy	L. Dorman.
Columbus, Ohio	29.13	739.9	29.96	761.0	68	20.0	90	s.	3	1.3			10 s			0.25	6.3	cloudy	D. Cuthbertson.
Concho, Texas	28.20	716.3	30.08	764.0	68	20.0	76	e.	18	8.0		0	8 s		se.	0	0	cloudy	W. W. McConihe.
Custer, Fort, Montana	26.91	683.5	29.93	760.2	52	11.1	86	se.	3	1.3		0	0			0	0	clear	V. Verge.
Davenport, Iowa	29.35	745.5	29.98	761.5	61	16.1	84	nw.	8	3.6			10 s		nw.	0.12	3.0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.27	641.8	29.91	759.7	64	17.8	75	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.29	718.6	30.00	762.0	59.8	15.4	63	sw.	1	0.4		0	2 k		sw.	0	0	clear	H. Clifford.
Deadwood, Dakota	25.53	648.5	29.95	760.7	52.0	11.1	74	sw.	3	1.3		4 k	0	w.		0	0	fair	G. W. Scott.
Decatur, Texas																			D. J. Carr.
Delaware Breakwater, Del.	30.08	764.0	30.10	764.5	71	21.7	100	ne.	2	0.9		1 c	3ks;fg			0	0	fair	A. Schneider.
Denison, Texas	29.21	741.9	29.99	761.7	71.0	21.7	71	w.	13	5.8			10 s		sw.	2.22	56.4	cloudy	J. McGlone.
Denver, Colorado	24.91	632.7	29.92	760.0	56.5	13.6	68	s.	1	0.4		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.16	740.7	30.04	763.0	56	13.3	86	n.	2	0.9		0	fg.			0.05	1.3	clear	F. W. Conrad.
Detroit, Michigan	29.25	742.9	29.94	760.5	70.2	21.2	84	sw.	4	1.8		5 k	0	sw.		0	0	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.58	700.5	30.08	764.0	62.0	16.7	67	n.	2	0.9		0	7 ks		n.	0	0	fair	W. M. Mattingly.
Dubuque, Iowa	29.27	743.4	29.96	761.0	61	16.1	72	nw.	3	1.3		9 k	0	nw.		0.14	3.6	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.16	740.7	29.88	758.9	59	15.0	81	n.	14	6.3		0	3 k		nw.	0.27	6.9	clear	N. B. Conger.
Eagle Pass, Texas	29.27	743.4	30.06	763.5	72.0	22.2	84	calm	0	0		1 c	0			inap.	inap.	clear	F. Belford.
Eagle Rock, Idaho	25.39	644.9	29.94	760.5	48	8.9	54	n.	5	2.2		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.05	763.3	30.11	764.8	57.0	13.9	83	s.	6	2.7			fg.		s.	0	0	light fog	D. O. Murphy.
Elliott, Fort, Texas	27.36	694.9	30.00	762.0	60	15.6	67	n.	4	1.8		6 k	0	n.		0	0	fair	W. J. Cundall.
El Paso, Texas	26.33	668.8	29.93	760.2	66	18.9	70	calm	0	0		0	0			0.15	3.8	clear	J. F. Marshall.
Erie, Pennsylvania	29.26	743.2	29.98	761.5	69	20.6	90	s.	3	1.3		4 ck	3 s	s.	s.	0.09	2.3	fair	Peter Wood.
Escanaba, Michigan	29.14	740.1	29.78	756.4	57	13.9	100	n.	13	5.8			10 n		n.	0.53	13.5	lightrain	C. Dill.
Fredericksburg, Texas	28.44	722.4	30.14	765.5	70	21.1	76	ne.	14	6.3			10 ks		ne.	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.04	763.0	30.09	764.3	81	27.2	77	sw.	7	3.1		5 ck;c	5 s	s.		0.01	0.3	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.23	742.4	29.88	758.9	66.0	18.9	63	s.	14	6.3		0	8 s		s.	0	0	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.32	643.1	29.89	759.2	69.9	21.1	47	se.	4	1.8		0	2 s			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.03	762.7	30.05	763.3	77.0	25.0	85	sw.	4	1.8		hz.	3 k.			0.30	7.6	clear	R. M. Crawford.
Helena, Montana	25.93	658.6	29.99	761.7	55	12.8	69	w.	4	1.8		4 c	0			inap.	inap.	fair	S. Wheaton.
Henrietta, Texas	29.15	740.4	30.13	765.3	68.0	20.0	84	n.	16	7.2		0	4 s			0.57	14.5	fair	J. W. Byram.
Huron, Dakota	28.67	728.2	29.99	761.7	55.2	12.9	90	nw.	4	1.8		1 k	0			0.30	7.6	clear	S. W. Glenn.
Indianapolis, Indiana	29.19	741.4	29.96	761.0	72	22.2	82	se.	2	0.9		0	hz.			0.02	0.5	clear	O. Schutze
Indianola, Texas	30.07	763.8	30.10	764.5	79.2	26.2	88	sw.	11	4.9		3 ck	2 ks	w.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.93	734.8	30.05	763.3	67	19.4	93	sw.	4	1.8		10 cs	0			0.91	23.1	cloudy	J. P. Sherry.
Jacksonville, Florida	30.09	764.3	30.13	765.3	83	28.3	72	s.	7	3.1		2 cs	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.56	700.0	29.97	761.2	55	12.8	74	ne.	5	2.2		2 cs	0	ne.		0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.36	745.7	29.99	761.7	60.0	15.6	84	nw.	12	5.4			10 s		nw.	0.36	9.1	cloudy	F. Z. Gosewisch
Key West, Florida	30.06	763.5	30.08	764.0	86.0	30.0	68	e.	6	2.7		4 c	0	e.		0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.09	764.3	30.11	764.8	72.5	22.5	97	ne.	9	4.0		0	8 s		sw.	0.58	14.7	cloudy	E. A. Beals.
Knoxville, Tennessee	29.04	737.6	30.04	763.0	68.3	20.2	98	e.	6	2.7			10 s		sw.	0.35	8.9	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.16	740.7	29.91	759.7	64	17.8	63	sw.	3	1.3		0	0			0.17	4.3	clear	S. C. Emery.
La Mesilla, New Mexico	26.17	664.7	29.91	759.7	62.8	17.1	70	calm	0	0		1 c	1 s	nw.		0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.21	741.9	30.07	763.8	64	17.8	73	nw.	6	2.7		1 cs	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.16	740.7	29.97	761.2	69.0	20.6	51	e.	1	0.4			10 s			0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.72	754.9	30.03	762.7	71	21.7	94	calm	0	0			10 s			0.06	1.5	cloudy	W. U. Simons.
Los Angeles, California	29.68	753.9	30.07	763.8	60.2	15.7	81	sw.	1	0.4			9 s		s.	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.43	747.5	29.98	761.5	71	21.7	90	s.	5	2.2			10 s		w.	0.18	4.6	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.43	747.5	30.10	764.5	71.0	21.7	76	se.	1	0.4		0	9 s		w.	inap.	inap.	cloudy	W. R. Bushby.
Macon, Fort, North Carolina	30.05	763.3	30.06	763.5	73	22.8	100	nw.	14	6.3			fg.			0.31	7.9	dense fog	F. P. Chaffee.
Madison, Wisconsin	28.93	734.8	29.91	759.7	60	15.6	87	nw.	11	4.9		0	9 s		nw.	0	0	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.69	652.5			65	18.3	54	e.	12	5.4		2 cs	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.80	706.1	30.00	762.0	71	21.7	71	se.	16	7.2		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.14	740.1	29.85	758.2	57	13.9	93	n.	4	1.8			10 n		calm	1.30	33.0	heavy rain	J. Gilligan.
Memphis, Tennessee	29.73	755.1	30.06	763.5	72	22.2	97	sw.	4	1.8			fg.			0.26	6.6	dense fog	D. T. Flannery.
Milwaukee, Wisconsin	29.11	739.4	29.84	757.9	64	17.8	84	w.	18	8.0		0	7 ks		nw.	0	0	fair	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.83	681.5	30.02	762.5	52	11.1	50	nw.	1	0.4	.....	4 c	0	n.	.....	0	0	fair	J. H. Jones.
Mobile, Alabama	30.08	764.0	30.12	765.0	74	23.3	94	nw.	1	0.4	.....	0	0	.....	.....	0.09	2.3	clear	C. A. Read.
Montgomery, Alabama	29.88	758.9	30.10	764.5	74.4	23.6	84	sw.	4	1.8	.....	3 cs	2 ks	w.	w.	0.01	0.3	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.04	737.6	30.00	762.0	53.1	11.7	86	n.	6	2.7	.....	1 k	0	n.	.....	inap.	inap.	clear	H. Bessant.
Morgantown, W. Virginia	29.06	738.1	30.06	763.5	68.5	20.3	91	s.	1	0.4	.....	.....	10 n	.....	.....	0.21	5.3	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.03	610.4	30.10	764.5	52 0	11.1	93	sw.	10	4.5	.....	9 cs	1 ks	sw.	sw.	0.03	0.8	cloudy	J. G. Lipsley
Nashville, Tennessee	29.52	749.8	30.04	763.0	71.5	21.9	90	w.	4	1.8	.....	.....	10 ks	.....	w.	0.01	0.3	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.00	762.0	30.11	764.8	70	21.1	90	s.	4	1.8	.....	.....	10s;fg	.....	s.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.09	764.3	30.14	765 5	69	20.6	100	se.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.09	764.3	79.5	26.4	84	s.	1	0.4	.....	1 c	sk.	.....	.....	0.03	0.8	clear	L. Dunne.
Newport, Rhode Island	30.09	764.3	30.14	765.5	70.0	21.1	90	s.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	W. McGillivray.
New York, New York	29.95	760.7	30.12	765.0	71	21.7	94	e	5	2.2	.....	2 cs	7 k;fg	e.	e.	0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	30.06	763.5	30.09	764.3	77	25.0	82	n.	2	0.9	.....	0	0	.....	.....	0.03	0.8	clear	H. L. Kemp.
North Platte, Nebraska	27.27	692.6	30.07	763.8	53.6	12.0	84	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.04	763.0	30.08	764.0	54.0	12.2	86	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.66	753.4	29.68	753.9	34.0	1.1	100	wsw.	8	3.6	.....	.....	10 s	.....	.....	0.49	12.4	cloudy	P. H. Ray.
Omaha, Nebraska	28.94	735.1	30.07	763.8	61.8	16.6	87	nw.	4	1.8	.....	hz.	0	.....	.....	0.98	24.9	clear	A. Pollak.
Oswego, New York	29.68	753.9	30.00	762.0	70.0	21.1	87	s.	4	1.8	.....	.....	10 s	.....	sw.	0.38	9.7	threatening	S. W. Beall.
Palestine, Texas	29.54	750.3	30.08	764.0	73.0	22.8	90	sw.	8	3.6	.....	3 ck	6 ks	w.	w.	0.01	0.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.08	764.0	30.11	764.8	77.3	25.2	87	ne.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	M. McGahran.
Philadelphia, Pa	30.02	762.5	30.12	765.0	72	22.2	90	se.	1	0.4	.....	.....	10s;hz	.....	e.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.07	459.0	29.85	758.2	34	1.1	60	nw.	21	9.4	.....	0	0	.....	.....	0	0	clear	L. M. Dey.
Pioche, Nevada	24 18	614.2	29.90	759.4	62.0	16.7	29	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.22	742.2	30.01	762.2	68.3	20.2	90	s.	6	2.7	.....	.....	10 n	.....	s.	0.16	4.1	light rain	J. H. Bryce.
Poplar River, Montana	27.94	709.7	.....	.....	.....	.....	.....	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.10	764.5	30.11	764.8	79.0	26.1	79	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. Hermann.
Port Huron, Michigan	29.26	743.2	29.92	760.0	64.3	17.9	100	s.	7	3.1	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	W. O. Bailey.
Portland, Maine	30.03	762.7	30.08	764.0	66.5	19.2	81	sw.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.03	762.7	30.10	764.5	58.0	14.4	80	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.91	632.7	29.90	759.4	60	15.6	58	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass	30.11	764.8	30.14	765.5	71.5	21.9	90	s.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.08	764.0	30.09	764.3	79.5	26.4	80	e.	7	3.1	.....	1 c	0	calm	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.59	751.6	29.95	760.7	72.1	22.3	49	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.75	755.6	29.98	761.5	80	26.7	74	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.35	745.5	30.00	762.0	69	20.6	90	calm	0	0	.....	.....	10k;fg	.....	sw.	0.07	1.8	cloudy	E. W. McGann.
Roseburg, Oregon	29.49	749.0	30.03	762.7	56.5	13.6	77	calm	0	0	.....	0	hz.	.....	.....	0	0	dense haze	J. J. Naury.
Sacramento, California	29.87	758.7	29.94	760.5	60.8	16.0	72	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.41	747.0	29.99	761.7	68.5	20.3	87	calm	0	0	.....	3 cs	5 s	w.	w.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.08	738.6	29.92	760.0	56	13.3	86	sw.	6	2.7	.....	0	hz.	.....	.....	0.10	2.5	clear	P. F. Lyons
St. Vincent, Minnesota	29.17	740.9	30.01	762.2	52	11.1	93	nw.	7	3.1	.....	0	3 s	.....	.....	0.05	1.3	clear	G. Kingsbury.
Salt Lake City, Utah	25.72	653.3	29.90	759.4	67	19.4	37	se.	4	1.8	.....	9 k	0	sw.	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.43	747.5	30.11	764.8	72.5	22.5	97	ne.	3	1.3	.....	3 ck	2 s	e.	.....	0.30	7.6	fair	T. J. Kenan.
San Diego, California	29.95	760.7	30.02	762.5	64.5	18.1	83	nw.	3	1.3	.....	.....	fg.	.....	nw.	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.29	744.0	29.95	760.7	68.0	20.0	90	s.	6	2.7	.....	.....	fg.	.....	.....	0.03	0.8	dense fog	M. H. Perry.
Sandy Hook, New Jersey	30.08	764.0	30.11	764.8	74.0	23.3	90	se.	8	3.6	.....	8 k	0	se.	.....	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.98	761.5	30.05	763.3	56	13.3	90	sw.	6	2.7	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.41	594.6	29.91	759.7	62	16.7	43	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.02	762.5	30.11	764.8	79.5	26.4	74	sw.	5	2.2	.....	10 ck	0	w.	.....	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.45	671.8	29.96	761.0	52	11.1	80	w.	8	3.6	.....	3 k	0	w.	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.83	757.7	30.06	763.5	73	22.8	97	s.	3	1.3	.....	0	9 s	.....	s.	0.18	4.6	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.88	733.5	30.08	764.0	65.2	18.4	90	n.	6	2.7	.....	9 cs	0	nw.	.....	0.32	8.1	cloudy	T. Cleary.
Silver City, New Mexico	24.41	620.0	29.87	758.7	60	15.6	50	n.	2	0.9	.....	0	0	.....	.....	0.08	2.0	clear	J. B. Wallace.
Sitka, Alaska	30.18	766.6	30.24	768 1	49.1	9.5	86	e.	7	3.1	.....	.....	10 n	.....	e.	0.19	4.8	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.55	750.6	30.01	762.2	73.5	23.1	84	e.	3	1.3	.....	.....	10 s	.....	e	0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.06	763.5	30.09	764.3	73	22.8	84	n.	4	1.8	.....	0	0	.....	.....	0.06	1.5	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.99	710.9	29.97	761.2	58	14.4	83	s.	1	0.4	.....	9 ck	0	.....	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.31	744.5	29.97	761.2	67	19.4	78	e.	3	1.3	.....	.....	9 s	.....	sw.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.99	761.7	30.12	765.0	70.2	21.2	90	s.	4	1.8	.....	.....	10 s	.....	sw.	0	0	cloudy	T. S. Outram.
Springfield, Mo	28.60	726.4	29.99	761.7	68	20.0	84	s.	6	2.7	.....	10 c	0	.....	.....	0	0	cloudy	J. B. Marbury.
Starkville, Miss	29.61	752.1	30.08	764.0	76	24.4	82	s.	5	2.2	.....	.....	fg.	.....	.....	0.01	0.3	dense fog	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.27	718.0	30.05	763.3	53	11.7	86	ne.	5	2.2	.....	2 cs	0	.....	.....	0.52	13.2	clear	W. Burrows
Stockton, Fort, Texas	27.07	687.6	30.01	762.2	67.8	19.9	90	s.	8	3.6	.....	0	1 s	.....	calm	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	30.08	764 0	30.13	765.3	62.0	16.7	97	s.	7	3.1	.....	.....	fg.	.....	.....	0	0	dense fog	G. Liebmann
Toledo, Ohio	29.27	743.4	29.94	760.5	71	21.7	82	s.	5	2.2	.....	hz.	4 k	.....	sw.	inap.	inap.	fair	A. Buell.
Tucson, Arizona	27.58	700 5	29.90	759.4	76	24.4	79	calm	0	0	.....	0	5 ks	.....	.....	0.59	15.0	fair	J. L. Whiteside.
Umatilla, Oregon	29.66	753.4	30.02	762.5	67	19.4	45	n.	3	1.3	.....	0	2 s	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	75.1	23.9	39	s.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.84	757 9	30.08	764.0	74	23.3	97	s.	2	0.9	.....	0	6s;n;ks	.....	s.	1.15	29 2	light rain	H. P. Brisbane.
Visalia, California	29.57	751.1	29.94	760.5	67	19.4	63	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washakie, Fort, Wyoming	24.67	626.6	30.00	762.0	47.8	8.8	75	nw.	4	1.8	.....	1 k	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.00	762.0	30.11	764.8	71.7	22.1	90	s.	3	1.3	.....	.....	10 s	.....	sw.	0	0	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.24	666.5	30.00	762.0	58	14.4	84	calm	0	0	.....	2 k	0	nw.	.....	0	0	clear	F. W. Brandenburg.
Williamsport, Pa	29.46	748.3	30.04	763.0	76	24.4	64	e.	1	0.4	.....	.....	10 ks	.....	s.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.04	763.0	30.09	764.3	72	22.2	97	n.	1	0.4	.....	5 k	fg.	.....	.....	0.48	12.2	fair	A. T. Sherwood.
Winnemucca, Nevada	25.73	653.5	29.95	760.7	56.5	13.6	35	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.77	730.7	30.04	763.0	62	16.7	72	w.	6	2.7	.....	0	0	.....	.....	0.24	6.1	clear	J. H. Atfield.
Yuma, Arizona	29.71	754.6	29.85	758.2	80.8	27.1	70	calm	0	0	.....	7 c	0	se.	.....	0	0	fair	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1	.....	.....	53.5	11.9	66	s.	10	4.5	.....	3 cs;k	3 ks	nw.	w.	0.04	1.0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.05	763.3	30.06	763.5	82	27.8	91	e.	.....	.....	.....	0	5 ks	.....	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.94	760.5	29.97	761.2	76	24.4	95	sw.	4	1.8	.....	.....	10 n	.....	s.	3.20	81.3	raining	J. I. Plume.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	77.5	25.3	83	calm	0	0	.....	5 c;cs	0	ne.	.....	0.19	4.8	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	73	22.8	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa	29.90	759.4	29.98	761.5	81	27.2	82	e.	6	2.7	.....	5 k	2 s	s.	se.	3.00	76.2	fair	F. M. Everett.
Paramaribo, S. A.	30.08	764.0	30.08	764.0	79	26.1	82	e.	.....	.....	1	5 ck	3 s	e.	.....	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.38	746.2	29.94	760.5	78	25.6	84	s.	.....	.....	1	.....	10 ks	.....	.....	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	95	ne.	.....	.....	3	6 cs	0	se.	.....	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.04	763.0	30.07	763 8	83	28.3	67	calm	0	0	.....	6 cs	0	.....	.....	0.20	5.1	fair	Robert Mason.
York Factory, B. A.	30.04	763.0	30.10	764.5	62.0	16.7	88	ne.	11	4.9	.....	0	0	.....	.....	0	0	clear	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, Saint Helena Island, Africa	30.21	767.3	70.5	21.4	71	e.			4		5							d. clouds.
H. M. S. Amethyst, Montevideo, Uruguay	30.40	772.1	41.2	5.1	91	nw.			2		5							d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.79	756.7	79	26.1		n.			4		4	nne.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.30	769.6	62	16.7		ene.			1		0							blue sky.
H. M. S. Champion, Yokohama, Japan			76	24.4	95	ne.			1-3		4					2	n.	squally.
H. M. S. Comus, N. 49° 14′, E. 178° 30′	30.07	763.8	48	8.9	85	wsw.			2-3		8					4	sw.	misty.
H. M. S. Diamond, S. 10° 17′, E. 161° 14′	29.86	758.4	81	27.2	87	ene.			1-2		8	sw.				1	ene.	d. clouds.
H. M. S. Dido, N. 14′, 50° W. 61° 30′	30.10	764.5	77	25.0		calm			0		4	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.21	767.3	81	27.2	82	ene.			1		4	ene.						d. clouds.
H. M. S. Eclipse, N. 1° 48′, E. 46° 52′	29.97	761.2	81	27.2		s.			3		2					3	ese.	d. clouds.
H. M. S. Emerald, N. 4° 10′ W. 19° 10′	30.08	764.0	75	23.9	90	ssw.			3-4		3	ssw.				2	ssw.	d. clouds.
H. M. S. Euryalus, N. 7° 20′, E. 55° 00′	29.80	756.9	78	25.6	82	sw.			6		5	sw.				5	wsw.	misty.
H. M. S. Espiegle, S. 15° 35′ E. 166° 57′	29.92	760.0	76	24.4	90	calm			0		10							overcast.
H. M. S. Fantome, Saint Lucia, Jamaica, W. I.	30.03	762.7	79	26.1		calm			0		5							d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.02	762.5	58.5	14.7	90	n.			1		9							d. clouds.
H. M. S. Garnet, N. 7° 00′, W. 22° 00′	30.09	764.3	78	25.6	82	sw.			3		10							overcast.
H. M. S. Griffon, N. 52° 01′, W. 55° 52′	29.82	757.4	51	10.6	93	se.			1									raining.
H. M. S. Iron Duke, N. 48° 01′, E. 140° 08′	29.76	755.9	58	14.4	93	ne.			2-3		4	ene.				2	ene.	d. clouds.
H. M. S. Kingfisher, N. 48° 10′, W. 124° 50′	30.15	765.8	55	12.8		calm			0		9					1	sse.	d. clouds.
H. M. S. Lark, S. 10° 21′, E. 161° 51′	29.91	759.7	77.3	25.2	93	se.			1		7					1	s.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.02	762.5	48.5	9.2		calm			0		10							d. clouds.
H. M. S. Magpie, N. 32° 44 , E. 129° 51′	29.73	755.1	79.7	26.5	86	s.			1		10							misty.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.82	757.4	80	26.7	71	wnw.			3		2					1	nw.	d. clouds.
H. M. S. Nelson, S. 36° 20′, E. 174° 48	29.49	749.0	54	12.2	86	w.			1-3									showery.
H. M. S. Northampton, Halifax, Nova Scotia	30.15	765.8	63	17.2	91	sse.			1		10	wsw.						misty.
H. M. S. Orion, N. 37° 49′, E. 8° 30′	30.14	765.5	75.5	24.2		nne.			1		0					2	wnw	blue sky.
H. M. S. Pegasus, N. 2° 08′, E. 102° 08′	29.88	758.9	80.5	26.9	95	w.			1		5							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Island	30.18	766.6	70	21.1	90	ene.			3		5	se.						d. clouds.
H. M. S. Rocket, Vancouver Island, B. A.	30.06	763.5	55	12.8	100	wsw.			2		2							d. clouds.
H. M. S. Sappho, S 14° 00′ W. 149° 00′	29.90	759.4	76.5	24.7		ene.			3-4		8	e.				3	e.	raining.
H. M. S. Swiftsure, S. 35° 10′, W. 55° 30	30.46	773.7	44.5	6.9	84	nw.			2-3		6	n.						d. clouds.
H. M. S. Sylvia, Maldonado, Uruguay	30.42	772 5	42.5	5.8	91	nw.			2		4							d. clouds.
H. M. S. Tenedos, N. 50° 36′ W. 57° 18′	29.84	757.9	61.5	16.4	77	sw.			5-6		4							squally.
H. M. S. Tourmaline, Off Limasol, Cyprus	29.71	754.6	78	25.6		s.			3		2	ssw.				3	ssw.	d. clouds.
H. M. S. Triumph, S. 48° 20′, W. 77° 00′	29.35	745.5	46	7.8	85	wnw.			6-7		9	wsw.				8	wnw.	raining.
H. M. S. Woodlark, Bushire, Persia	29.40	746.7	93.5	34.2	64	w.			4-5		1	nw.				2	w.	squally.
H. M. S. Zephyr, N. 31° 12′, E. 131° 37′	29.86	758.4	81	27.2	95	ssw.			2-3		4	w.				1	sw.	blue sky.
Portuguese Naval.																		
Rio Lima, Santiago, Cape Verd Islands	30.07	763.8	77.0	25.0	100	ne.			2		2					2	ne.	d. clouds.
Tamega, Macao, China	29.64	752.9	82.4	28.0	77	s.			3		10			20 h'r	20 h'r			raining.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.11	764.8	79	26.1	82	nw.	2	0.9			5		ne.	0	0			fair.
Navy Yard, Portsmouth, N. H.	30.10	764.5	69	20.6	85	sw.	7	3.1			10		sw.	0	0			cloudy.
Naval Hospital, Yokohama, Japan*	29.54	750.3	76	24.4	91	calm			0		2		w.	0	0			
Adams, Mare Island, Cal.						sw.			1		10			0	0	sm'h		cloudy.
Alaska, Callao, Peru	29.96	761.0	60	15.6	82	calm			0		10			0	0	sm'h		cloudy.
Alert, N. 38° 26′, W. 123° 47′*	29.93	760.2	53	11.7	93	calm			0		10			0	0	sm'h		misty.
Alliance, Boston, Mass.	30.14	765.5	69	20.6	85	w.			1		8			0	0			cloudy.
Ashuelot, Yokohama, Japan*	29.57	751.1	78	25.6	91	calm			0		5		calm					fair.
Brooklyn, Rio de Janeiro, Brazil	30.27	768.8	68	20.0	100	ne.	3	1.3			10		calm	0.83	21.1	sm'h		light rain.
Colorado, New York, N. Y.			73	22.8	90	ese.	3	1.3			8		e.	0	0			misty.
Constellation, Staten Island, N. Y*	30.11	764.8	72	22.2	90	se.			1		8		calm					fair.
Enterprise, Provincetown, Mass*	30.14	765.5	69	20.6	100	s.			1		0					sm'h		clear.
Essex, S. 40° 16′, W. 80° 43′	29.88	758.9	54	12.2	87	w.			6		8?		w.			mod	w.	clear.?
Franklin, Norfolk, Va.	30.13	765.3	72	22.2	95	ene.	4	1.8			5		ene.	0	0			fair.
Galena, Malta, Mediterranean	30.01	762.2	79	26.1	78	nnw.			2		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	30.08	764.0	57	13.9	87	w.			3		10			0	0			cloudy.
Iroquois, Mare Island, Cal.	30.04	763.0	58	14.4	82	w.			2		10							overcast.
Kearsarge, Norfolk, Va.	30.10	764.5	75	23.9	95	n.			1		2		n.					foggy.
Lackawanna, Callao, Peru*	29.98	761.5	60	15.6	88	calm			0		8		se.					cloudy.
Lancaster, Alexandria, Egypt*	29.84	757.9	80	26.7	91	nnw.			3		0			0	0			clear.
Marion, S. 34° 54′, W. 56° 13′	30.39	771.9	41	5.0	100	nnw.			2		5?		nw.	light	light	sm'h		cloudy.?
Michigan, Detroit, Mich.	29.90	759.4	69	20.6	90	sw.			1		5?		sw.					cloudy.?
Minnesota, Newport, R. I.	30.27	768.8	70	21.1	90	sse.	1	0.4			8							foggy.
Monocacy, Chefoo, China	29.72	754.9	77	25.0	91	wnw.			2		5		nw.			sm'h		fair.
New Hampshire, Newport, R. I.	30.16	766.1	71	21.7	95	s.			1		10					sm'h		light mist.
Nipsic, Alexandria, Egypt*	29.81	757.2	79	26.1	78	wnw.			3		0					sm'h		clear.
Onward, Callao, Peru	30.13	765.3	58	14.4	100	calm			0		8		n.			long	v	cloudy.
Palos, Kobe, Japan*	29.63	752.6	80	26.7	82	calm			0		10		calm					cloudy.
Passaic, Washington, D. C.	30.16	766.1	72	22.2	?	ne.			2		10							cloudy.
Pensacola, Panama, Panama*	29.79	756.7	79	26 1	91	n.	2	0.9			10		calm	0.01	0.3	sm'h		cloudy.
Portsmouth, N. 38° 02′, E. 0° 47′*	30.10	764.5	74	23.3	95	e.			4		2					sm'h		clear.
Powhatan, Pensacola, Florida	30.12	765.0	88	31.1	76	w.			1		2							hazy.
Quinnebaug, Alexandria, Egypt	29.83	757.7	80	26.7	78	wnw.			3		0					sm'h		hazy.
Ranger, Mare Island, Cal.	29.98	761.5	61	16.1	88	w.			2		10			0	0			overcast.
Richmond, Yokohama, Japan*	29.55	750.6	77	25.0	?	calm			0		0			0	0			clear.
Saratoga, N. 37° 57′, E. 0° 47′	30.07	763.8	78	25.6	82	ene.			4		1		calm	0	0	mod.	ene.	clear.
St. Louis, League Island, Pa.	30.34	770.6	71	21.7	95	calm			0		10			0	0			cloudy.
Swatara, Yokohama, Japan*	29.50	749.3	78	25.6	91	calm			0		5		calm			sm'h		hazy.
Tennessee, Provincetown, Mass.	30.19	766.8	72	22.2	?	s.	6	2.7			8							cloudy.
Vandalia, Portsmouth, N. H.*	30.09	764.3	69	20.6	90	wsw.			1		9		n.					cloudy.
Wabash, Boston, Mass.	30.15	765.8	69	20.6	85	sw.	5	2.2			10		sw.	0	0			cloudy.
Wachusetts, Fort Wrangle, Alaska†	30.44	773.2	48	8.9	92	calm			0		10		calm			sm'h		cloudy.
Wyoming, Port Royal, S. C*	30.06	763.5	77	25.0	82	sw.	4	1.8			8		sw	0	0			cloudy.
Yantic, Provincetown, Mass	30.18	766.6	69	20.6	85	s.			2		10							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, Glasgow, Scotland*	29.57	751.1	64	17.8	.....	s.	.....	.....	4	.....	10	.....	s.	.....	.....	.....	.....	cloudy.
S. S. Nova Scotian, N. 45° 52′, W. 58° 22′	30.12	765.0	56	13.3	.....	ssw.	.....	.....	4	.....	2	.....	ssw.	.....	.....	sl't	s.	hazy.
S. S. Waldensian, N. 51° 23′, W. 29° 49′*	29.78	756.4	53	11.7	.....	w.	.....	.....	6	.....	10	.....	w.	shr's	shr's	h'vy	w.	squally.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, Liverpool, Eng*†	29.70	754.4	.....	.....	.....	ssw.	.....	.....	4	.....	9	.....	w.	3 h'r	3 h'r	.....	.....	cloudy.
S. S. Lord Gough, Philadelphia, Pa	30.05	763.3	75	23.9	.....	se.	.....	.....	2	.....	10	.....	.....	o	o	.....	.....	cloudy.
AMSTERDAM LINE.																		
S. S. Jason, N. 49° 53′, W. 26° 50′	29.87	758.6	55.4	13.0	.....	wnw.	.....	.....	5	.....	6 n	.....	.....	.....	.....	5	w.	cloudy.
ANCHOR LINE.																		
S. S. Alexandria, N. 42° 32′, E. 5° 12′	30.10	764.5	67.5	19.7	.....	nw.	.....	.....	5	.....	1	.....	.....	o	o	4	nw.	clear.
S. S. Assyria, N. 40° 40′, W. 60° 51′*†	30.44	773.2	74	23.3	.....	s.	.....	.....	3	.....	1	.....	s.	o	o	sm'h	.....	clear.
S. S. Bolivia, N. 41° 12′ W. 57° 14′*†	30.30	769.6	70	21.1	.....	e.	.....	.....	2	.....	0	.....	.....	o	o	sm'h	.....	clear.
S. S. Devonia, N. 40° 44′, W. 68° 36′†	30.22	767.6	60	15.6	.....	calm	.....	.....	0	.....	8	.....	wsw.	.....	.....	sm'h	.....	foggy.
S. S. Ethiopia, N. 51° 35′, W. 27° 30′	29.63	752.6	56.5	13.6	87	nw.	.....	.....	6	.....	5?	.....	nnw.	4 h'r	4 h'r	h'vy	w.	clear.?
S. S. Gallatia, N. 24° 48′, E. 35° 48′†	29.96	761.0	84	28.9	.....	n.	.....	.....	2	.....	.....	.....	.....	o	o	.....	.....	.....
S. S. India, N. 39° 53′ W. 21° 49′*	30.05	763.3	73	22.8	90	wnw.	.....	.....	2	.....	8	.....	.....	.....	.....	h'vy	nw.	cloudy.
ATLAS LINE.																		
S. S. Ailsa, N. 27° 22′, W. 74° 14′.†	30.12	765.0	82	27.8	67	se.	.....	.....	3	.....	2	.....	se.	o	o	mod.	se.	clear.
S. S. Alvo, Savanilla, U. S. C.	29.88	758.9	.....	.....	.....	.....	.....	.....	2	.....	1	.....	ene.	o	o	.....	.....	.....
S. S. Antillas, Miragoane, Hayti, W. I.*†	30.20	767.1	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	.....
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 7° 47′, W. 27° 52′	30.09	764.3	76	24.4	90	ese.	.....	.....	3	.....	8	.....	.....	.....	.....	.....	.....	overcast.
S. Baroda, S. 34° 59′, E. 20° 45′	30.33	770.4	60.8	15.8	94	nw.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	.....	misty.
S. S. City of Agra, S. 4° 20′, W. 26° 57′	30.08	764.0	81.5	27.5	90	e.	.....	.....	4	.....	1	.....	.....	.....	.....	.....	.....	blue sky
Bk. Commewyne, N. 15° 55′, W. 59° 21′	30.08	764.0	82.5	28.1	70	ene.	.....	.....	4	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Gordon Castle, N. 40° 23′, W. 25° 40′	30.16	766.1	68.5	20.3	77	ne.	.....	.....	2	.....	8	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Markland, S. 36° 33′, W. 105° 42′	29.94	760.5	59	15.0	100	wnw.	.....	.....	6	.....	10	.....	.....	.....	.....	5	sw.	raining.
May Hulse, N. 7° 30′, W. 24° 09′	30.05	763.3	75	23.9	90	sse.	.....	.....	2	.....	10	.....	.....	.....	.....	.....	.....	heavy rain.
S. Oamarn, S. 34° 43′, E. 20° 42′	30.35	770.9	60.5	15.8	88	wnw.	.....	.....	2	.....	1	.....	.....	.....	.....	.....	.....	blue sky.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 24° 38′, W. 110° 37′*†	29.93	760.2	76	24.4	86	s.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	.....	clear.
CUNARD LINE.																		
S. S. Marathon, N 41° 54′, W. 53° 20′	30.33	770.4	67	19.4	.....	e.	.....	.....	1	.....	0	.....	.....	o	o	sm'h	se.	fine.
S. S. Scythia, N. 50° 38′, W. 19° 48′	29.50	749.3	60	15.6	88	wnw.	.....	.....	6	.....	6	.....	nw.	10 h'r	10 h'r	hv'y	nw.	
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Ville de Marseilles, Marseilles, France*†	30.00	762.0	83	28.3	.....	nnw.	.....	.....	2–3	.....	0	.....	.....	o	o	.....	.....	clear.
GUION LINE.																		
S. S. Wisconsin, N. 51° 00′, W. 20° 45′	29.47	748.5	56	13.3	100	wnw.	.....	.....	6	.....	0	.....	.....	o	o	mod.	nw.	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 50° 20′, W. 3° 04′†	29.98	761.5	.....	.....	.....	ssw.	.....	.....	6	.....	2	.....	sw.	3 h'r	3 h'r	cross	sw.	
S. S. Cimbria, N. 40° 43′, W. 57° 14′	30.32	770.1	75	23.9	.....	ese.	.....	.....	3	.....	1	.....	ese.	o	o	sm'h	ese.	clear.
S. S. Herder, N. 43° 00′, W. 41° 02′	30.28	769.2	75	23.9	.....	wsw.	.....	.....	4	.....	4	.....	ne.	o	o	sm'h	nne.	fine.
S. S. Silesia, New York, N. Y.†	30.24	768.1	.....	.....	.....	calm	.....	.....	0	.....	7	.....	se.	o	o	.....	.....	fair.
S. S. Wieland, N. 48° 44′, W. 22° 34′	29.80	756.9	60	15.6	.....	w.	.....	.....	6	.....	10	.....	w	rain	rain	6	w.	stormy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 8° 32′, W. 32° 00′*†	30.30	769.6	80	26.7	.....	sse	.....	.....	4	.....	4	.....	sse.	sh'rs	sh'rs	long	sse.	clear.
MALLORY LINE.																		
S. S. Colorado, N. 37° 48′, W. 74° 44′†	30.10	764.5	74	23.3	.....	n.	.....	.....	2	.....	3	.....	n.	o	o	small	ne.	clear.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 39° 00′, W. 69° 52′*†	30.22	767.6	80	26.7	78	ssw.	.....	.....	2	.....	3	.....	w.	2 h'r	2 h'r	sm'h	.....	fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 49° 33′, W. 9° 11′†	29.78	756.4	64	17.8	94	sw.	.....	.....	6	.....	5	.....	.....	o	o	mod.	sw.	
S. S. Hermod, N. 49° 46′, W. 9° 46′*†	29.47	748.5	60.8	16.0	.....	wsw.	.....	.....	7	.....	10	.....	w.	4 h'r	4 h'r	r'gh	ssw.	threatening.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, off Salinas,	29.67	753.6	.....	.....	.....	e.	.....	.....	4	.....	.....	.....	ese.	o	o	mod.	e.	fine.
NATIONAL LINE.																		
S. S. Denmark, N. 44° 52′, W. 39° 27′	30.17	766.3	56	13.3	.....	nw.	.....	.....	4	.....	2	.....	w.	o	o	long	nw.	clear
S. S. England, North river, N. Y.	30.27	768.8	.....	.....	.....	s.	.....	.....	2	.....	.....	.....	.....	o	o	.....	.....	clear.
S. S. Erin, N. 45° 59′, W. 36° 41′	30.21	767.3	54	12.2	.....	wnw.	.....	.....	4	.....	2	.....	wsw.	o	o	long	nnw.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Saratoga, Havana, Cuba, W. I.†	30.28	769.1	70?	21.1?	90	calm	.....	.....	0	.....	0	.....	.....	o	o	.....	.....	clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 35° 19′, W. 74° 17′	30.25	768.3	83	28.3	83	ssw.	.....	.....	4	.....	8	.....	s.	2 h'r	2 h'r	long	sse.	showery.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. State of Nebraska, N. 41° 52′, W. 63° 45′†	30.28	769.1	64	17.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	sm'h	.....	clear.
NORTH GERMAN LLOYD																		
S. S. America, N. 48° 54′, W. 27° 34′*	29.84	757.9	57.2	14.0	.....	wnw.	.....	.....	6	.....	10	.....	wnw.	2 h'r	2 h'r	h'vy	w.	showery.
S. S. Gen. Werder, N. 48° 42′, W. 27° 20′	29.82	757.4	.....	.....	.....	wnw.	.....	.....	6	.....	10	.....	wnw.	4 h'r	4 h'r	r'gh	wnw.	cloudy.
S. S. Habsburg, N. 40° 52′, W. 50° 27′	30.34	770.6	68.0	20.0	.....	e.	.....	.....	4	.....	0	.....	.....	o	o	mod.	e.	clear.
S. S. Hohenzollern, N. 49° 45′, W. 5° 49′*	29.88	758.9	56 3	13.5	.....	sw.	.....	.....	5	.....	7?	.....	w.	o	o	mod	w.	clear ?
S. S. Ohio, Bremerhaven, Germany	30.00	762.0	.....	.....	.....	w.	.....	.....	5	.....	7	.....	w.	o	o	.....	.....	cloudy.
S. S. Salier, N. 46° 51′, W. 29° 27′	30.05	763.3	50.9	10.5	.....	nnw.	.....	.....	6	.....	8	.....	nw.	2 h'r	2 h'r	r'gh	nw.	cloudy.
S. S. Strassburg, N. 41° 29′, W. 58° 28′	30.25	768 3	90.0	32.2	56	se.	.....	.....	2	.....	0	.....	.....	o	o	sm'h	se.	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 45° 20′, E. 163° 35′*†	29.95	760.7	53	11.7	80	ese.	.....	.....	4	.....	10	.....	e.	o	o	sm'h	.....	foggy.
S. S. Belgic San Francisco, Calf	30.08	764.0	59	15.0	81	sw.	.....	.....	1	.....	10	.....	sw.	.....	.....	.....	.....	foggy.
S. S. Gaelic, N. 40° 07′, W. 137° 08′†	30.39	771.9	65	18.3	73	nnw.	.....	.....	3	.....	5	.....	nw.	.....	.....	sm'h	.....	fair.
S. S. Oceanic, N. 28° 29′, E. 128° 07′*	29.75	755.6	84	28.9	83	sse.	.....	.....	4	.....	8	.....	se.	.....	.....	2	sse.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.23	767.8	.....	.....	.....	sw.	.....	.....	1	.....	8?	.....	sw.	o	o	.....	.....	clear.?
S. S. City of Columbus, Savannah, Ga.†	30.04	763.0	.....	.....	.....	wsw.	.....	.....	2	.....	10	.....	.....	o	o	.....	.....	overcast.
S. S. Seminole, Boston, Mass†	30.12	765.0	75	23.9	85	sw.	.....	.....	1	.....	8	.....	sw.	o	o	.....	.....	cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N 38° 23′, W. 123° 36′†	30.11	764.8	54	12.2	86	se.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	misty.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 32° 47′, W. 117° 24′†	30.00	762.0	64	17.8	83	se.	.....	.....	2	.....	10	.....	se.	.....	.....	sm'h	.....	cloudy.
S. S. Idaho, Harrisburg, Alaska †	30.30	769.6	49	9.4	93	calm	.....	.....	0	.....	10	.....	s.	.....	.....	.....	.....	drizzling.
S. S. State of California, Portland, Oregon†	30.11	764.8	55	12.8	93	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Victoria, Strait of Fuca, Wash. Ter†	30.12	765.0	52	11.1	100	calm	.....	.....	0	.....	0	.....	.....	o	o	.....	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S Australia, Sydney, N. S. W.	30.18	766.6	58	14.4	76	sw.	.....	.....	4	.....	0	.....	.....	o	o	.....	.....	clear.
S. S. City of New York, S. 19° 06′, W. 172° 14′†	30.01	762 2	76	24.4	91	calm	.....	.....	0	.....	0	.....	.....	o	o	mod.	se.	clear.
S. S. City of Pekin, N. 46° 41′, W. 149° 56′†	29.79	756.7	52	11.1	93	sw.	.....	.....	4	.....	10	.....	sw.	o	o	light	sw.	misty.
S. S. City of Rio de Janeiro, N. 13° 29′, W. 89° 29′.*†	30.16	766.1	84	28.9	79	ne.	.....	.....	2	.....	8	.....	ne.	2 h'r	2 h'r	long	se.	fine.
S. S. City of Sydney, S. 36° 47′, E. 174° 50′ †	29.68	753.9	53	11.7	97	sw.	.....	.....	6	.....	8	.....	s.	0.25	6.3	mod.	s.	cloudy.
S. S. City of Tokio, N. 36° 17′, E. 147° 28′†	29.98	761.5	76	24.4	95	sw.	.....	.....	4	.....	10	.....	sw.	½ h'r	½ h'r	small	sw.	fine.
S. S. Colon, N. 13° 31′, W. 77° 08′†	30.01	762.2	82	27.8	.....	ene.	.....	.....	5	.....	6	.....	ne.	o	o	large	ne.	fair.
S. S. Colima, N. 15° 24′, W. 96° 55′†	29.97	761.2	83	28.3	83	w.	.....	.....	4	.....	8	.....	w.	o	o	small	.....	cloudy.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, N. 24° 10′, W. 65° 30′	29.95	760.7	83	28.3	.....	ene.	.....	.....	3	.....	10	.....	.....	o	o	mod.	e.	overcast.
S. S. Bermuda, St. John's, N. I.†	30.13	765.3	85	29.4	.....	e.	.....	.....	2	.....	6	.....	e.	h'vy	hv'y	sm'h	.....	fine.
RED STAR LINE.																		
S. S. Belgenland, N. 45° 23′ W. 32° 56′†	30.19	766.8	66	18.9	68	nnw.	.....	.....	6	.....	7?	.....	n.	2 h'r	2 h'r	mod.	wnw.	overcast ?
S. S. Nederland, N. 48° 30′, W. 18° 12′†	29.83	757.7	62	16.7	88	wsw.	.....	.....	6	.....	8	.....	wsw.	o	o	high	wsw.	cloudy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
Red Star Line—Continued.																		
S. S. Rhynland, Jersey City, N. J.	30.18	766.6	74	23.3	81	sse.			1		10		sse.	0	0			cloudy.
S. S. Vaderland, N. 49° 11′ W. 13° 00′	29.63	752.6	61	16.1	82	sw.			7		5		sw.	0	0	high	wsw.	fair.
Rotterdam Line.																		
S. S. P. Caland, N. 40° 25′, W. 46° 15′	30.28	769.1	68.7	20.4	81	ene.			3		9 k		sw.			sm'h	w.	fair.
S. S. W. A. Scholten, New York, N. Y.	29.90	759.4	75.4	24.1	88	sse.			4		6		sse.	0	0			fair
State Line.																		
S. S. State of Florida, Glasgow, Scotland	29.54	750.3	69	20.6		s.			3		9		s.	6 h'r	6 h'r			hazy.
S. S. State of Indiana, N. 43° 49′, W. 47° 20′†	30.59	777.0	61	16.1		w.			1		0			0	0	sm'h		clear.
Thingvalla Line.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.24	768.1	75.2	24.0		sw.			2		5		sw.	2 h'r	2 h'r			clear.
Warren Line.																		
S. S. Iowa, N. 50° 24′ W. 18° 15′*†	29.64	752.8	55	12.8		w.			7		3		w.	6 h'r	6 h'r	hv'y	w.	clear.
White Star Line.																		
S. S. Baltic, N. 49° 50′ W. 24° 51′†	29.80	756.9	56	13.3	81	nnw.			4		8		nw.	1 h'r	1 h'r	5	wnw.	d. clouds.
S. S. Britannic, N. 41° 37′, W. 55° 05′†	30.36	771.1	68	20.0	95	e.			2		0					sm'h		blue sky.
S. S. Celtic, Liverpool, Eng†	29.85	758.2	64	17.8	78	se.			4		8		se.	24 h'r	24 h'r			showery.
S. S. Germanic, N. 45° 47′, W. 37° 27′†	30.31	769.9	57	13.9		nw.			4		3		wnw.			mod.	nnw.	d. clouds.
S. S. Republic, Liverpool, Eng†	29.87	758.7	62	16.7	94	ssw.			4		8		sw.	shr's	sh'rs			raining.
Winsor Line.																		
S. S. Catherine Whiting, Philadelphia, Pa†	30.08	764.0	80	26.7		sse.								0	0			foggy.
Miscellaneous.																		
Schr. Ajax, N. 28° 06′ W. 91° 47′†	30.20	767.1				s.			1		5		s.	0	0	sm'h	se.	fair.
Bk. Alpha, New York, N. Y†	30.09	764.3	76	24.4		e.			2		6		s.	0	0			cloudy.
Schr. Annie Lewis, Aransas, Pass, Texas†	30.21	767.3	82	27.8		sse.			3		2		sse.	0	0	long	sse.	clearing.
Bk. Anna Thormann, S. 39° 03′, E. 26° 03′	30.21	767.3	53.4	11.9	65	wsw.			5		6 k		wsw.	0	0	high	cross	cloudy.
S. S. Antonio Lopez, N. 24° 36′, W. 41° 58′	30.21	767.3	81	27.2	74	ne.			3		3			0	0	mod.		fair.
Bk. Argonaut, N. 52° 01′, W. 28° 37 *†	29.79	756.7	54.1	12.3		nw.			6		8		wnw.	½ h'r	½ h'r	high	wnw.	cloudy.
S. S. Burswell, N. 42° 19′, W. 36° 35′*†	30.28	769.1	73	22.8		n.			2		3		ne.	0	0	str'g	nnw.	clear.
Bk. Cato, N. 60° 37′, E. 2° 00′*†	30.05	763.3				sse.			3		4		s.	0	0	sm'h	s.	foggy.
Bk. Celestina, S. 31° 45′, W. 35° 03′*†	30.20	767.1				ne.			2		10			0	0	long	vsw.	
Schr. C. R. Flint, Cedar Keys, Florida†	30.33	770.4	81	27.2		ssw.			1		5		sw.	0	0			fair.
S. Cornelius, N. 40° 00′, W. 47° 40′*†	30.51	774.9	73	22.8		e.			4		4		ne.	0	0	long	ne.	fair.
S. S. D. J. Foley, N. 27° 42′, W. 73° 49′†	30.10	764.5				se.			4		3		se.	0	0	long	se.	clear.
Schr. Edith R. Seward, Ponce, Porto Rico, W. I*†	30.11	764.8	85	29.4		ene.			1		1		calm	0	0			clear.
S. E. J. Spicer, New York, N. Y*	30.08	764.0	75	23.9		e.			2		8		e.	0	0			
Bk. E. L. Pettingill, N. 37° 57′ W. 137° 22′†	30.40	772.1				ne.			2		5?		ne.	0	0	sm'h		cloudy?
S. Enoch Train, N. 39° 09′, W. 48° 07′*†	30.38	771.6				e.			4		5		e.	0	0	light	ne.	fine.
Bk. Essex, S. 39° 03′ E. 16° 07′*†	30.24	768.1	60	15.6		w.			3		8		w.	0	0	hv'y	wsw.	cloudy.
Bk. Freya, N. 37° 59′, W. 74° 02′						w.			2		5		s.	0	0	sm'h		fair.
S. Grecian, Hong Kong, China*†	29.65	753.1	82	27.8		se.			4		10		se.	8 h'r	8 h'r			
Bk. Hattie G. McFarland, Philadelphia, Pa*†	30.15	765.8	74	23.3		sw.			1		8		se.	0	0			
S. Hedwig, N. 41° 43′, E. 18° 28′	29.92	759.9	74.7	23.7	83	nw.			5		3		ne.	0	0	short	nw.	fine.
Bk. Horace Scudder, N. 24° 48′, W. 58° 00′†	30.23	767.8	82	27.8		ese.			2		5		e.	½ h'r	½ h'r	mod	e.	blue sky
S. Ivy, N. 6° 18′, W. 125° 54′†	30.12	765.0	78	25.6		se.			6		1		se.	0	0	mod.	sse.	clear.
S. Ismir, S. 39° 40′ E. 76° 05′†	30.12	765.0				wsw.			5		8		w.	1 h'r	1 h'r	h'vy	w.	fine.
Schr. James Slater, Para river, Brazil*†	30.20	767.1	84	28.9		ese.			1		2		e.	2 h'r	2 h'r			
Schr. Jennie N. Huddell, Boston, Mass†	30.27	768.8	70	21.1	95	ssw.			3		8		s.	0	0			cloudy.
Bk. Johanne, N. 50° 22′, W. 31° 40′*†	29.87	758.7	56	13.3		nw.			6		8		wnw.	rain	rain	cross	wsw.	hazy.
Schr. John L. Thomas, N. 22° 04′, W. 84° 58′*†	30.16	766.1				ne.			2		2		ese.	0	0	mod.	e.	clear.
Bg. John Wesley, S. 23° 46′ W. 71° 55′†	29.98	761.5				e.			3		1		e.	0	0	mod.	ese.	hazy.
Bk. Joseph A. Ropes, N. 5° 14′, W. 28° 10′*†	30.12	765.0	81	27.2	82	e.			3		3		ese.	0	0	mod.	se.	fair.
Bkt. Josephine, N. 32° 44′, W. 74° 08′†	30.13	765.3	81	27.2	78	s.			4		8		sw	6 h'r	6 h'r	mod.	s.	cloudy.
Bkt. Kryolith, N. 45° 19′, W. 53° 17′*†	30.25	768.3				sw.			3		0					long	ne.	clear.
S. S. Laurel, Appalachicola Bay, Fla†	30.16	766.1	82	27.8		nw.			1		1		calm	0	0			clear.
Bk. Liberia, N. 12° 06′, W. 28° 26′*	29.96	761.0	79	26.1	86	n.			4		3		n.	0	0		s.	
S. S. Madrid, N. 39° 51′, W. 60° 14′*†	30.42	772.7	75	23.9		e.			4		1		ese.	0	0		se.	
S. S. Malabar, San Francisco, Cal. *†	30.17	766.3				sw.			3		5?		sw.	0	0			cloudy.?
S. S. Nebo, N. 47° 38′, W. 7° 19′*†	29.95	760.7				ssw.			5		8?		ssw.	1 h'r	1 h'r	h'vy	ssw.	clear.?
S. Orealla, N. 35° 50′, W. 51° 52′*	30.06	763.5	80	26.7		var.			3		5?		sw.	2 h'r	2 h'r	sm'h	sw.	clear.?
S. Paramita, S. 4° 00′ W. 115° 29′†	29.82	757.4	78	25.6		se.			4		0			0	0	cross		clear.
S. S. Ponca, N. 38° 20′, W. 72° 46′†	30.17	766.3	77	25.0		s.			2		6		ssw.	4 h'r	4 h'r	light	ssw.	fair.
S. S. Sunbeam, Odessa, Russia	29.81	757.2	79	26.1	90	calm			0		0							blue sky.
S. Sovereign of the Sea, S. 4° 12′ W. 29° 58′*†	30.00	762.0	82	27.8	87	e.			2-3		3		e.	0	0	long	se.	clear.
Bg. Teneriffe, Cardenas, Cuba, W. I.	30.06	763.5				se.			1									
Bk. Truro, N. 41° 44′, W. 40° 35′*†	30.22	767.6				ne.			1		0			0	0	mod.	n.	clear.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†	30.36	771.1	74	23.3	90	sse.			1		10		sse.	0	0			cloudy.
S. S. Victoria J. Peed, N. 15° 53′, W. 75° 23′						ne.			5		5							
Schr. Viola Reppard, Baltimore, Md†	29.90	759.4	80	26.7		nw			1		2			0	0			
Bk. Wm. Wilcox, S. 35° 00′, W. 54° 40′*†	30.50	774.7	59	15.0		ssw.			3		5		s.	3 h'r	3 h'r	mod.	sw	fair.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 19, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.07	763.7	81.0	27.2	68	n.			6		3			0	0	pretty fair	Bouvier.
Algiers			30.11	764.7	78.1	25.6	66	ne.			2		2			0	0	fair	Nicolas.
La Galle			30.13	765.2	78.1	25.6	71	sw.			4		1			0	0	very fair	Fonfrède.
Tunis			30.12	765.0															Jacques.
Saida			30.13	765.3	93.6	34.2	19	ne.			3		9			0	0	covered	Perés.
Tebessa			30.15	765.7	86.7	30.4	16	wnw.			1		0			0	0	clear	Derché.
Geriville					90.3	32.4	14	sse.			4		3			0.067	1.7	pretty fair	Louchamp.
Laghouat			30.15	765.7	97.5	36.4	35	w.			4		3			0.157	4.0	pretty fair	Abraham.
Biskra			30.15	765.7	93.2	34.0	35	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.38	771.6	30.47	773.9	50.5	10.3	74	sse.	4	1.8			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.67	753.5	30.19	766.8	80.6	27.0	35	w.			3		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.47	748.6	30.21	767.4	76.6	24.8	49	nnw.	4.9	2.2			4			0.063	1.6		Dr. Wierzbiski.
Eperies	29.29	743.9	30.13	765.4	73.4	23.0	45	n.			4	cs	3 s		s.	0	0		Julius Mikolik.
Gratz	28.98	736.1	30.19	766.7	75.9	24.4	73	e.			2		2			0	0		Andreas Rospini.
Hermannstadt	28.56	725.5	29.91	759.6	81.1	27.3	51	nw.			3		10			1.516	38.5	thnd'r storm	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.92	734.5	30.21	767.4	73.6	23.1	59	se.			1	0	3 k			0	0	clear	The Staff.
Lemberg	29.19	741.3	30.15	765.8	65.8	18.8	83	ne.			3		10			0.075	1.9		Dr. T. Stanecki.
Pola	30.06	763 5	30.17	766.2	82.2	27.9	51	wnw.			2		1			0	0		I. R. Hydrographic Office.
Szathmar	29.58	751.2	30.02	762.5	75.6	24.2	65	n.			3		9			0.004	0.1		Joseph Midlinszky, S. J.
Szegedin	29.73	755.2	30.00	761.9	81.7	27.6	74	ne.			3		4			0	0		Karl Stancel.
Trieste	30.10	764.4	30.20	767.0	85.3	29.6	48	sw.			1		4			0	0		Royal Academy.
Vienna	29.52	749.9	30.21	767.4	78.8	26.0	38	nw.			1		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.56	750.8	29.66	753.4	64.0	17.8	54	s.	23	10.3			5			0.010	0.3	blue sky	W. Boswell
Armagh, Observatory	29.56	750.8	29.78	756.4	60.0	15.6	76	sw.	18	8.0			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y					62.8	17.1	59	sw.	26	11.6			9					overcast	John Hartnup.
Bolton, Sharples	29.38	746.2	29.91	759.7	63.4	17.4	56	sw.	24	10.7			6					d. clouds	Thomas Mackereth, [ton.
Bradford, Yorkshire	29.50	749.3	29.89	759.2	64.4	18.0	46	w.			1		5			0.01	0.3	d. clouds	McLandsborough & Pres·
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	82.0	27.8	70	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			30.01	762.2	72.0	22.2	63	sw.			3.0		6					d. clouds	John McLaren.
Chatham, School M. E.	29.99	761.7	30.12	765.0	67.4	19.7	64	ssw.			3		5			blank	blank	d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.85	758.2	30.08	764.0	64.0	17.8	67	sw.			5		7					d. clouds	The Staff.
Fort Napier, Natal	27.88	708.1	30.10	764.5	72.0	22.2	44	s.			1		0					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.73	755.1	29.96	761.0	81.0	27.2	86	nw.			1		4					drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	30.05	763.3	30.10	764.5	81.8	27.7	74	e.			2		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.52	749.8	29.72	754.9	61.1	16.2	68	sw.			6		6					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.91	759.7	30.08	764.0	68.1	20.1	58	ssw.			4		4					d. clouds	The Staff.
Guernsey	29.85	758.2	30.14	765.5	64.5	18.1	70	wsw.			1		3					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.05	763.3	30.08	764.0	66.6	19.2	58	sw.	22	9.8			7					d. clouds	The Staff.
Leicester, Museum	29.72	754.9	29.97	761.2	66.0	18.9	56	sw.			5		6					d. clouds	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.03	762.7	80.2	26.8	60	n.			1		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.13	765.3	30.17	766.3	87.0	30.6	65	e.			3		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.47	748 5	29.99	761.7	62.9	17.2	71	ssw.			6		7					showery	Warren Middleton.
Oxford, Radcliffe Obs'y	29.81	757.2	30.04	763.0	66.6	19.2	68	ssw.			5		4					squally	The Staff.
Plymouth	30.00	762.0	30.07	763.8	66.3	19.1	73	sw.			2		5					d clouds	John Merrifield.
Sandwick Manse, Orkneys			29.53	750.0	56.9	13.8	89												Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.75	755.6	29.81	757.2	82.4	28.0	58	ne.			2		9					d. clouds	W. H. Lyne.
Sheffield	29.66	753.4	29.93	760.2	69.0	20.6	54	sw.			4		4			0.17	4.3	d. clouds	W. F. Cooper.
Silloth Rectory	29.79	756.7	29.82	757.4	62.0	16.7	74	wsw.			6		2			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.93	760.2	61.0	16.1	64	w.	16	7.2			10			blank	blank	overcast	Rev. S. J. Perry.
Stratfield Turgiss	29 86	758 4	30.08	764.0	68.7	20.4	60	sw.			3		4					squally	Rev. C. H. Griffiths, F. M. S
Truro, Royal Institution	30.06	763.5	30.07	763.8	68	20.0	64	sw.			6		7					d. clouds	W. Newcombe.
Valencia, Observatory	29.87	758.7	29.89	759.2	59.9	15.5	73	sw.	27	12.1			6					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.91	759.7	29.95	760.7	65	18.3	98	s.	10	4.5			10 n			0.120	3.0	light rain	H. J. Cundall, C. E.
Chatham, N. B*	29.84	757.9	29.89	759.2	66	18.9	93	s.	3	1.3			10 ks		s.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.76	755.9	29.78	756.4	65	18.3	93	sw.	13	5.8			10 n		sw.	0.23	5.8	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.31	744.5	30.14	765.5	44	6.7	93	n.	2	0.9		0	0			0	0	clear	James Stewart.
Halifax, N. S*	30.04?	763.0?	30.04?	763.0?	64	17.8	100	sw.	6	2.7			fg.			0.110	2.8	foggy	A. Allison.
Kingston, Ontario*	29.54	750.3	29.86	758.4	66	18.9	93	sw.	10	4.5		0	2 k			0.33	8.4	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.61	752.1	29.81	757.2	72	22.2	82	sw.	10	4.5		5 c	2 ks	sw.	w.	0.27	6.9	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.19	741.4	29.86	758.4	60	15.6	87	sw.	8	3.6		2 k	5 ks	sw.	sw.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.25	742.9	29.92	760 0	63	17.2	94	calm	0	0		0	0			inap.	inap.	clear	H. Morgan.
Port Stanley, Ontario	29.28	743.7	29.91	759.7	62	16.7	87	w.	2	0.9		2 k	5 ks	w.	w.	0.05	1.3	cloudy	M. Payne.
Quebec, Quebec*	29.51	749.5	29.82	757.4	68	20.0	97	w.			1		8 n		sw.	0.29	7.4	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.36	745.7	29.80	750.9	63	17.2	90	nw.	6	2.7		0	0			1.24	31.5	clear	W. H. McIntyre.
Saugeen, Ontario*	29.14	740.1	29.83	757.7	62	16.7	84	s.	6	2.7		0	0			0.26	6.6	clear	
St. Andrews, N. B	29.86	758.4	29.91	759.7	57	13.9	99	s.	1	0.4			fg.			0.25	6.3	foggy	
Sydney, C. B*	29 97	761.2	30.03	762.7	69	20.6	78	sw.	14	6.3		4 k	0	w.		0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.52	749.8	29.89	759.2	63	17.2	84	w.	4	1.8		0	0			0.19	4.8	clear	Magnetic Observatory.
Yarmouth, N. S*	29.94	760.5	30.01	762.2	59	15.0	100	s.	12	5.4			fg.			0.01	0.3	foggy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.52	724.4	29.97	761.2	55.0	12.8	87	sw.			4	3 c	0	w.		0.122	3.1	clear	Wm. Wylie.
St. Johns, Newfoundland	30.10?	764.5?	30.34?	770.6?	69?	20.6?	80	sw.	4	1.8		0	0			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.37	771.4	30.40	772.1	67.0	19.4	84	w.	8.0	3.6		0	1 k			0	0	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.36	771.1	30.40	772.1	62.4	16.9	84	s.	18	8.0		0	2			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.64	752.8	29.66	753.4	77.4	25.2	95	wsw.	4.9	2.2			10			0.217	5.5	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.06	763.6	30.11	764.8	73.6	23.1	59	sw.	14.5	6.5			5						Oversergent Fischer.
Fanöe	30.03	762.7	30.05	763.2	65.7	18.7	81	wsw.			6		6						Overloerer Lauridsen
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.52	749.8	29.56	750.9	43.3	6.3	83	e.			4		8						A. O. Thorlacius.
Thorshavn	29.38	746.3	29.42	747.2	61.0	16.1	80	s.	7	3			5						Overloerer Bergh.
Vestervig	29.89	759.3	29.98	761.6	62.2	16.8	91	sw.			4		10						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.54	750.4	30.21	767.2	85.6	29.8	61	sse.			1		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.67	753.5	30.22	767.5	70.9	21.6	67	s.			1		cn		ne.	0.08	2.		M. Nicot, Director.
Arras, Engineer School	30.00	762.1	30.26	768.5	72.3	22.4	44	?			4	ck	0	w.		0	0		M. Fénéon, Command't.
Avignon, Normal School	30.09	764.3	30.17	766.3	88.2	31.2	48	n.			1		0			0	0	clear	M. Girand, Director.
Bar-sur-Seine	29.66	753.3	30.19	766.8	78.4	25.8	48	se.			1		6		w.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.94	760.4	30.19	766.8	74.3	23.5	58	s.			1		8		sw.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.30	744.2	30.17	766.2	79.2	26.2	54	e.			1		1		s.	0	0	clear	M. Goblin, Director.
Bordeaux, Observatory	29.85	758.3	30.10	764.6	82.9	28.3	43	ese.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.64	752.9	30.18	766.5	73.4	23	72	se.			1	c	0	se.		0	0		M. Malet, Director.
Brest, Naval Observatory	29.93	760.1	30.17	766.3	66.9	19.4	70	sw.			2		7		sw.	0.098	2.5		M. de Kermaree, Dir.
Caen, Normal School	30.16	766.1	30.24	768.1	65.3	18.5	68	s.			1		8		nw.	0	0	very cloudy.	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.82	757.4	30.13	765.2	80.6	27.0	49	s.			1		5			0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.69	754.1	30.19	766.7	77.7	25.4	51	w.			3					0	0		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.86	753.0	30.14	765.5	84.9	29.4	48	ne.			1	0	1 k			0	0	clear	M. Allnard, Director.
Cluny, Normal School	29.38	746.2	30.20	767.0	77.7	25.4	57	se.			1		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.39	746.4	30.23	767.9	76.5	24.7	61	sw.			1		5 kn	sw.	sw.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.72	704.0	30.12	765.0	84.2	29	24	s.			1	0	0			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.07	738.4	30.13	765.3	88.2	31.2	22	sw.			2		0			0	0	clear	M. Kina, Director.
Grenoble, Normal School	29.35	745.5	30.17	766.2	79.9	26.6	47	ese.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.63	727.3	30.15	765.8	79.5	26.4	53	nw.			1		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	29.87	758.7	30.14	765.5	67.1	19.5	67	sse.			1		5		sse.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.58	751.2	30.12	765.1	73.2	22.9	61	e.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.09	764.2	30.19	766.8	65.8	18.8	75	calm			0		10			0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.19	741.3	30.21	767.2	82.8	28.2	38	se.			1		0			0	0	clear	M. André, Director.
Mans, Normal School	29.93	760.2	30.23	767.8	70.9	21.6	58	nw.			1		2		sw.	0	0	slightly cl'dy.	M. Piboen, Director.
Marseille, Observatory	29.91	759.6	30.17	766.3	76.5	24.7	63	w.			1		0			0	0		M. Stephan, Director.
Montlouis	25.10	637.6	29.95	760.6	73.4	23.0	28	w.	5.6	2.5			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.93	760.1	30.06	763.4	83.1	28.5	57	ssw.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.47	748.4	30.22	767.7	78.8	26.0	50	s.			1		k		n.	0	0		M. Hasse, Director
Nantes, Observatory	30.05	763.2	30.21	767.3	75.6	24.2	56	nnw.			0-1	0	7 k;kn		ssw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.08	763.9	30.18	766.5	83.3	28.5	39	ne.	9.4	4.2			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.60	548.7			55.8	13.2		nw.			1		1		nw.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.15	740.5	30.16	766.1	88.0	31.1	30	s.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.45	646.4			61.9	16.6	69	se.			2	0	2 k			0	0	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	30.14	765.5	30.17	766.3	82.4	28.0	100	w.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.94	760.5	30.15	765.7	77.7	25.4	67	ne.			1		5		sw.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.02	711.6	30.07	763.7	82.4	28.0	62	w.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.13	765.3	30.18	766.5	72.7	22.6	73	ssw.			1		5	w.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	30.02	762.4	30.18	766.6	78.4	25.8	51	ssw.			1		7		sw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.48	748.7	30.21	767.2	87.8	31.0	41	se.			1		0			0	0	clear	M. Baillaud, Director.
Tours	29.93	760.3	30.11	764.8	76.3	24.6	56	sw.			1		1		sw.	0	0	clear	M. de Tastes.
Versailles, Observatory	29.68	753.9	30.17	766.4	77.4	25.2	48	sw.			1					0	0		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.90	759.4	30.19	766.8	80.1	26.7	49	sw.			1		6		sw.	0	0		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.83	732.3	30.22	767.6	77.4	25.2	44	sw.			2		2	w.		0	0		Prof. Jnedt.
Bamberg	29.39	746.5	30.25	768.4	79.5	26.4	46	calm			0	0	1 s			0	0		Prof. Dr. Hoh.
Berlin	30.16	766.0	30.33	770.3	81.0	27.2	34	sw.			2		6			0	0		Prof. Dr. Arndt.
Breslau	29.75	755.6	30.28	769.2	77.0	25.0	33	nw.			1		3			0	0		Royal University Obs'y.
Carlsruhe	29.80	756.8	30.22	767.6	77.5	25.3	51	se.			1		0			0	0		Albert Senz.
Cassel	29.47	748.5	30.18	766.6	81.3	27.4	60	sw.			2		8	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.85	758.1	30.20	767.0	79.2	26.2	51	sw.			1		4			0	0		Physical Society.
Friedrichshafen	28.84	732.4	30.23	767.9	70.9	21.6	73	sw.			2		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.05	763.3	30.15	765.7	75.7	24.3	59	ssw.			5		7			0	0		E. Preller.
Kiel	30.08	764.1	30.10	764.5	74.1	23.4	58	sw.			4		4			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.82	757.5	30.23	767.8	80.8	27.1	38	sw.			4		4	w.		0	0		H. Leppig, Asst.
Magdeburg	30.00	762.1	30.19	766.7	82.8	28.2	43	sw.			2	0	7 k;ks		sw.	0	0		Dr. Assmann.
Memel	30.21	767.3	30.26	768.5	67.3	19.6	76	wnw.			3		0					clear	Issermann.
Munich	28.47	723.1	30.35	770.9	75.7	24.3	42	nw.			2		2			0	0		Dr. C. Lang.
Neufahrwasser	30.21	767.2	30.27	767.6	74.3	23.5	55	ne.			1		5			0	0		A. Lothes.
Neustadt, Palatinate	29.69	754.1	30.22	767.6	78.4	25.8	59	w.			3		2			0	0		Dicknether.
Stuttgart	29.29	744.0	30.14	765.6	79.7	26.5	47	n.			3		3	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.14	765.6	30.17	766.2	74.8	23.8	58	sw.			5		10 s		w.	0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.48	748.9			85.6	29.8		n.			4.0		4			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.42	747.2	29.47	748.4	83.1	28.4	79	wsw.	30.0	13.4			9	w.		0	0	gloomy	
Deesa	28.98	736.0	29.44	747.9	83.1	28.4	77	w.	8.0	3.6			10	w.		0.02	0.5	d. clouds	
Bombay	29.58	751.2	29.62	752.2	79.0	26.1	91	wsw.	28.0	12.5			10		w.	0.80	20.3	overcast	
Poona, Yarrowdat	27.76	705.1	29.62	752.2	73.2	22.9	84	w.	26.0	11.6			10		w.	0.34	8.6	drizzling	
Trichinopoly	29.50	749.3	29.78	756.3	86.6	30.3	69	wnw.	5.0	2.2			10			0	0	overcast	
Bellary	28.20	716.3	29.66	753.3	81.2	27.3	59	nw.	23.4	10.5			10	sw.		0	0	gloomy	
Belgaum	27.16	689.8	29.71	754.7	69.6	20.9	91	wsw.	14.0	6.3			10		sw.	1.52	38.6	showery	
Lahore	28.64	727.4	29.35	745.6	92.7	33.7	56	e.	5.8	2.6			3			0	0	d. clouds	
Roorkee	28.56	725.4	29.44	747.8	83.8	28.8	79	e.	4.1	1.8			8			0.05	1.3		
Agra	28.88	733.5	29.43	747.6	82.7	28.2	87	e.	4.1	1.8			6		e.	0.34	8.6	d. clouds	
Nagpur	28.40	721.4	29.44	747.8	75.7	24.3	94	w.	5.6	2.5			10			0.19	4.8	overcast	
Jubbulpore	28.06	712.6	29.39	746.5	79.4	26.3	92	w.	4.0	1.8			10			0.41	10.4	overcast	
Lucknow	29.07	738.4	29.44	747.7	90.1	32.3	62	calm	3.3	1.5			0			0.06	1.5	blue sky	
Allahabad	29.05	737.9	29.36	745.6	87.4	30.8	78	calm	3.9	1.7			8			0	0	d. clouds	
Patna	29.24	742.7	29.42	747.3	88.4	31.3	69	ene.	8.0	3.6			5	ene	ene.	0	0	d. clouds	
Hazaribagh	27.38	695.4	29.35	745.5	78.8	26.0	85	ene.	13.2	5.9			10		n.	0.26	6.6	thnd'r str'm	
Cuttack	29.30	744.1	29.38	746.1	79.2	26.2	85	sw.	2.3	1.0			10			0.46	11.7	showery	
Calcutta, Alipore	29.28	743.7	29.30	744.2	83.6	28.7	83	s.	5.0	2.2			10		se.	0.23	5.8	overcast	
Dhubri	29.34	745.2	29.45	748.1	86.5	30.3	78	ene.	8.9	4.0			9	ese.		0.05	1.3	d. clouds	
Chittagong	29.43	747.6	29.52	749.8	78.7	25.9	97	e.	12.3	5.5			10			0	0	overcast	
Sibsagar	29.11	739.4	29.43	747.6	92.3	33.5	66	ne.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.03	711.9	29.46	748.4	75.7	24.3	95	sw.	1.3	0.6			10		e.	0.84	21.3	thnd'r storm	
Zanzibar, Africa	30.09	764.3			81.3	27.4	54	sse.	7.8	3.5			5		se.	0.03	0.8	d. clouds	
ITALIAN.																			
Udine	29.80	756.8	30.19	766.7	83.7	28.7	45	s.	0.7	0.3			1			0	0		Prof. Giovanni Clodig.
Milan	29.70	754.3	30.19	766.9	86.4	30.2	36	se.	4.3	1.9			1			0	0		Prof. Schiapparelli.
Padua	30.04	763.1	30.15	765.8	83.3	28.5	39	nw.	1.8	0.8			1	nw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.30	744.2	30.17	766.2	84.6	29.2	38	se.	3.8	1.7			1			0	0		Prof. P. F. Denza.
Genoa	30.00	762.0	30.18	766.8	78.8	26.0	60	sw.	1.3	0.3			0			0	0		Prof. G. M. Garibaldi.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Mondovi	28.32	719.3	30.15	765.8	79.2	26.2	40	nw.			4		0			0	0		Prof. D. C. Bruno.
Pesaro	30.06	763.6	30.11	764.8	78.8	25.9	51	n.	6.9	3.1			0			0	0		Prof. Luigi Guidi.
Florence	29.89	759.1	30.13	765.3	87.4	30.8	32	ne.			2		0			0	0		Prof. Costantino Pitter
Leghorn	30.02	762.4	30.10	764.5	78.1	25.6	71	nnw.	9.4	4.2			0			0	0		Prof. P. Monte.
Rome	29.88	758.9	30.08	764.1	89.6	32.0	27	wsw.	11.9	5.3			0			0	0		Prof. P. S. Ferrari.
Lecce	29.74	755.4	29.98	761.5	80.6	27.0	38	nnw.	19.9	8.9			0			0	0		Prof. C. de Giorgi.
Cosenza	29.14	740.2	29.99	761.8	83.1	28.4	72	sw.	2.5	1.1			2	w.		0	0		Prof. D. Conti.
Cagliari	29.92	759.9	30.10	764.6	78.4	25.8	64	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.86	758.4	30.10	764.5	78.8	26.0	53	ne.	6.3	2.8			1			0	0		Prof. G. Ciacciatore.
Syracuse	29.95	760.7	29.99	761.8	79.2	26.2	56	e.	5.6	2.5			2	ne.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.54	750.2	30.03	762.8	84.6	29.2	34	ne.	5.6	2.5			0			0	0		Prof. T. Brioschi.
Stelvio	22.56	573.0			58.5	14.7	25	ene.			2		0			0	0	clear	Prof. P. F. Denza.
Valdobbia	22.58	573.6			53.6	12.0	71	e.			2		4			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.76	755.9	29.77	756.1	64.8	18.2	83	w.	9.0	4.0			2			0	0	clear	
Hiroshima, I. M. Obs'y					73.0	22.8	87	ssw.	4.0	1.8			10 n			0.348	8.8	light rain	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.54	750.3	29.70	754.4	78.4	25.8	86	sse.	2.2	1.0			10 s			1.152	29.3	cloudy	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.52	749.7	29.71	754.7	72.6	22.6	94	ne.	2.7	1.2			10 n			3.520	89.4	raining.	S. Takehayashi.
Nemuro	29.75	755.6	29.81	757.2	52.6	11.4	97	nne.	12.0	5.4		10	0	ssw.		0.326	8.3	cloudy	
Niigata	29.69	754.1	29.73	755.1	70.0	21.1	96	ne.	3.5	1.6		0	3 cks		n.	0.015	0.4	fair	M. Morita.
Nobiru	29.74	755.5	29.76	755.9	71.7	22.1	82	e.	5.4	2.4			10 s			0	0	covered	H. Midzushina.
Osaka	29.67	753.6	29.68	753.9	79.0	26.1	86	w.	4.1	1.8			10 n;s					light rain	
Supporo					58.5	14.7	93	calm	0	0			1			0	0	clear	
Tokei Obs'y, Yeddo	29.68	753.9	29.75	755.6	75.8	24.3	92	s.	12.1	5.4		4 cs;c	0	ssw.		0	0	clear	The Staff.
Wakayama	29.66	753.3	29.71	754.6	80.1	26.7	73	s.	8.2	3.7			10			0.163	4.1	cloudy	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	30.05	763.3	30.24	768.1	71.0	21.7	61	ese.	16.5	7.4		0	2 k		ese.	0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.78	603.9	30.00	761.9	57.7	14.3	78	e.	4.5	2.0		0	1 kn		e.	0	0	clear	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.03	762.7	59.7	15.4	82	wsw.			1	2 ck	0			0	0	fair	Prof. M. Leal.
Mazatlan	29.72	754.8	29.98	761.4	79.0	26.1	86	ne.	0.9	0.4		0	5 n		e.	0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.19	589.0	30.26	768.7	50.9	10.5	89	nw.	1.3	0.6		2 c	1 ks			0.182	4.6	fine	The Staff.
Morelia	24.25	616.0	30.39	771.8	59.7	15.4	68	s.			3	2	2	e.	e.	0.662	16.8	½ cloudy	M. Tena, M. D.
Orizaba	26.13	663.7	30.10	764.7	59.7	15.4	84	s.	0.9	0.3		1	0	e.		0.055	1.4	clear	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.04	610.7	30.04	763.0	60.8	16.0	73	nw.			2	0	0			0	0	fine	M. V. de Leon, M. E
Puebla, Catholic Institute	23.48	596.3	30.29	769.5	51.3	10.7	91	calm	0	0		0	0			0.020	0.5	clear	Prof. P. Spina.
San Luis Potosi	24.27	616.5	30.27	769.0	64.8	16.6	59	e.				0	2		w.	0	0	clear	G. Barroeta, M. D.
Zacatecas	22.60	573.8	30.20	767.0	58.5	14.7	66	n.	6.8	3.0		0	0			0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.17	766.4	30.17	766.4	66.4	19.1		w.			4					0	0		
Groningen	30.08	764.0	30.13	765.4	70.0	21.1		wsw.			4					0	0		
Helder	30.12	765.0	30.12	765.0	64.0	17.8		ssw.			4					0.071	1.8		
Hellevoetsluis	30.17	766.3	30.17	766.3	69.4	20.8	67	wsw.			2					0	0		
Utrecht	30.13	765.3	30.18	766.5	72.0	22.2	55	sw.			4		5			0.161	4.1	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.69	754.0	29.75	755.6	63.3	17.4	70	ssw.	31	14			7			0.610	15.5	raining	
Brono	29.59	751.5	29.63	752.5	59.7	15.4	85	n.	9	4			10			0.992	25.2		
Christiania	29.72	754.8	29.86	758.4	64.6	18.1	75	s.	13	6			4			0.024	0.6		
Gjesvær	29.46	748.2	29.48	748.8	80.4	26.9		s.			7		5						
Lodingen	29.62	752.3	29.67	753.5	57.4	14.1	87	wsw.			4		10			0.972	24.7		
PORTUGUESE.																			
Angra, Azores					68.4	20.2	80	ese.	11.2	5.0			5			0	0		Dr. J. A. Sampaio.
Campo Major	29.09	738.8	30.02	762.5	95.4	35.2	21	nw.	1.3	0.6			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.15	765.7	30.23	767.9	74.1	23.4	67	sw.	4.3	1.9			6			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.79	756.7	30.13	765.4	81.9	27.7	41	n.	18.1	8.0			0			0	0		The Staff.
Ponta Delgada, Azores	30.28	769.1	30.35	770.9	70.9	21.6	77	nne.	8.7	3.9			3			0	0		
Saint Paul de Loando	29.89	759.2	30.10	764.4	69.8	21.0	81	n.	0.7	0.3			10			0	0		
Serra da Estrella	25.56	649.3	30.10	764.6	71.6	22.0	45	nnw.	4.3	1.9			1			0	0		
RUSSIAN.																			
Akmolinski	28.45	722.7	29.47	748.6	73.6	23.1	49	ne.	18	8		0	5 kn			0.287	7.3		Major K. Lasarew.
Archangel	29.93	760 2	29.95	760.7	86.9	30.5	40	w.	9	4		1 cs	0			0	0		Capt. Sseliwerstow.
Astrakhan	29.96	761.0	29.88	758.9	85.5	29.7	34	nne.	16	7		0	4			0	0	hazy	Capt. Wisganow.
Barnaul	29.07	738.3	29.53	750.0	80.8	27.1	51	se.	2	1			8			0	0	light clouds	Meteorological Obs'y.
Dorpat	29.75	755.6	29.97	761.3	88.7	31.5	49	sw.	13	6		0	6 k			0	0		Observatory.
Ekaterinburg	28.91	734.3	29.85	758.3	57.7	14.3	56	n.	7	3			9			0	0		Meteorological Obs'y.
Irkutsk	28.23	717 0	29.78	756.5	74.5	23.6	63	calm	0	0		cs	3k;s;n			0	0		
Kasan	29.76	755.8	30.01	762.3	77.4	25.2	34	n.	9	4		0	2 k			0	0		Observatory.
Kertch	29.73	755.1	29.75	755.6	90.5	32.5	46	ene.	38	17		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.35	745.4	29.94	760.4	86.9	30.5	55	ese.	7	3		c;cs	6 ks			0	0		Observatory.
Lugan	29.76	755.8	29.95	760.7	88.0	31.1	32	ene.	22	10			0						Meteorological Obs'y.
Moscow	29.63	752.5	30.07	763.7	85.1	29.5	41	calm	0	0			0						Meteorological Obs'y.
Nikolaiev	29.78	756.4	29.85	758.2	97.7	36.5	26	e.	31	14		cs	2 k			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.56	750.7	29.70	754.3	80.6	27.0	75	calm	0	0		1 cs	0			0	0		Physical Observatory
St. Petersburg	29.97	761.1	29.98	761.5	87.1	30.6	39	sse.	18	8		ck	1 k			0.236	6.0		Central Physical Obs'y
Semipalatinsk	29.00	736.5	29.59	751.6	92.8	33.8	41	calm	0	0			3			0	0		Major Lasarew.
Tashkend, Laboratory	28.05	712.4	29.49	749.0	91.0	32.8	34	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.43	722.2	29.74	755.5	97.0	36.1	17	s.	2	1		4 ck	0			0	0		Physical Observatory
Vladivostock	29.73	755.2	29.80	756.9	63.3	17.4	91	se.	4	2		0	0						
Warsaw	29.79	756.7	30.20	767.1	73.4	23.0	43	nw.	11	5		0	1 k						Astronomical Obs'y
Wilna	29.73	755.1	30.13	765.3	73.9	23.3	80	nw.	4	2			9			0	0	heavy clouds	Berg, Assistant.
Yeniseisk	29.48	748.9	29.76	755.8	73.2	22.9	91	calm	0	0			0			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.02	762.5	30.12	765.0	80.2	26.8	58	se.	4.5	2.0			0					clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.04	763.1	30.10	764.6	86.9	30.5	52	nw.	2.0	0.9		0	0			0	0	clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.21	691.0	30.00	762.1	84.2	29.0	33	w.	4.5	2.0			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.94	709.7	30.03	762.7	91.9	33.3	30	s.	6.3	2.8		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director.
Santiago, Met. Obs'y	29.27	743.4	30.15	765.8	70.5	21.4	71	sw.	3.8	1.7			9			0	0	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.					79.1	26.2	87	nne.	1.1	0.5		3 c	6 kn		w.	0.118	3.0	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.78	756.4	29.84	757.9	86.5	30.3	32	e.	26.5	11.8		0	2		sw.	0	0		P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.8	30.09	764.2	82.4	28.0	85	calm	0	0		4 k	2 k		se.	0.008	0.2	cloudy	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.99	761.7	30.08	764.0	74.6	23.7	88	sse.	3.0	1.3			10 ks		e.	1.10	27.9	stormy	Manuel Maese.
Tuguegarao, Philippine Id's	29.68	753.9	29.82	757.4															José L. Yrastorza.
SWEDISH																			
Haparanda	29.72	755.0	29.76	756.0	72.3	22.4	77	sw.			2		5			0.193	4.9		
Umea	29.74	755.3	29.79	756.6	84.2	29.0	67	s.			4		3			0.031	0.8		
Hernosand	29.75	755.6	29.80	756.9	72.0	22.2	48	ssw.			6		5			0.098	2.5		
Stockholm	29.82	757.4	30.00	761.9	74.3	23.5	44	w.			6		3			0	0		
Wisby	29.98	761.4	30.04	762.9	73.8	23.2	56	wsw.			4		0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Swedish—Continued.																			
Sub-series.																			
Upsala	29.85	758.2	29.94	760.4	72.5	22.5	50	sw.	14.8	6.6			7		wsw.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.84	732.4	30.21	767.2	72.7	22.6	65	n.			3					0	0	clear	The Observatory
Scottish.																			
Monach Lt			29.48	748.8	58	14.4	94	sw.			0.6	5	5	sw.		0.2	5.	showery	J. Youngclause.
North Unst			29.53	750.0				s.			6		10						
Turkish.																			
Constantinople			29.86	758.4	78.8	26.0	64	n.	17.9	8.0			9		ne.	0	0		The Observatory.
Valona			30.08	763.9	86.4	30.2		nw.			2		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.76	755.8	86.0	30.0	59	sw.			3	0	2 k		sw.	0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.84	757.9	29.92	760.0	72	22.2	82	s.	4	1.8		4 cs	5 s		w.	0.22	5.6	cloudy	J. O. Barnes.
Alpena, Michigan	29.20	741.7	29.84	757.9	57	13.9	86	w.	6	2.7		3 c	1 s	sw.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.18	639.6	29.92	760.0	57	13.9	83	se.	5	2.2			10 s		calm	0	0	cloudy	W. U. Barnes.
Assinnaboine, Ft., Montana	27.28	692.9	30.02	762.5	53	11.7	80	ne.	9	4.0		1 c	0	nw.		0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.94	735.1	30.09	764.3	75.0	23.9	82	nw.	6	2.7		9 k	0			0.31	7.9	cloudy	H. Hall.
Atlantic City, New Jersey	29.92	760.0	29.94	760.5	74.8	23.8	90	s.	6	2.7		9 ck	0	calm		0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.92	760.0	30.11	764.8	74.0	23.3	90	calm	0	0		2 c	0	s.		0.02	0.5	clear	John Healy.
Baltimore, Maryland	29.94	760.5	29.99	761.7	70	24.4	82	s.	5	2.2		4 cs	hz.	sw.		inap.	inap.	fair	Robert Seyboth.
Barnegat, New Jersey	29.93	760.2	29.95	760.7	74.0	23.3	97	s.	8	3.6		3 c	3 k	sw.	w.	0.48	12.2	fair	G. A. Hill.
Bennett, Fort, Dakota	28.46	722.9	30.00	762.0	57	13.9	86	ne.	4	1.8		3 k	3 k	calm	calm	0.07	1.8	fair	A. Pritchard.
Benton, Fort, Montana	27.29	693.2	30.00	762.0	58	14.4	72	e.	1	0.4		1 c	1 k			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	29.87	758.7	29.89	759.2	49.0	9.4		s.	2	0.9			fg.			0.01	0.3	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.35	720.1	30.07	763.8	56	13.3	80	e.	3	1.3		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.94	760.5	29.97	761.2	70.0	21.1	93	sw.	9	4.0			fg			0.15	3.8	dense fog	J. T. Elker.
Boise City, Idaho	27.21	691.1	29.93	760.2	69.5	20.8	55	nw.	4	1.8		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.79	756.7	29.94	760.5	68.0	20.0	93	s.	4	1.8			10 n		s.	inap.	inap.	light rain	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.03	762.7	74.5	23.6	90	calm	0	0		0	0			0	0	clear	M. McCarty.
Buffalo, New York	29.18	741.2	29.91	759.7	66.3	19.1	84	w.	4	1.8		3 ck	0	sw.		0.10	2.5	clear	Wm. Finn.
Buford, Fort, Dakota	28.17	715.5	30.11	764.8	54	12.2	74	e.	6	2.7		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.57	751.1	29.85	758.2	72.7	22.6	85	s.	9	4.0		4 ck	1 s	w.	s.	0.11	2.8	fair	G. C. Schaeffer.
Cairo, Illinois	29.68	753.9	30.06	763.5	72.8	22.7	74	ne.	8	3.6		4 ck	0	w.		0	0	fair	W. H. Ray.
Campo, California																			W. H. Glendenon
Camp Thomas, Arizona	27.28	692.9	29.87	758.7	75	23.9	56	s.			1	4 cs	2 ks	sw.	sw.	inap.	inap.	fair	J. T. Fitzgerald.
Cape Henry, Virginia	30.00	762.0	30.02	762.5	74	23.3	90	sw.	12	5.4			10 s		sw.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	29.93	760.2	29.96	761.0	73.2	22.9	90	s.	11	4.9		0	8 s		se.	0	0	cloudy	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	83	28.3	72	e.	3	1.3		1 k	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.23	742.4	30.02	762.5	63.8	17.7	75	w.	7	3.1		4 c	0	w.		0	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.03	762.7	30.08	764.0	81	27.2	79	sw.	4	1.8		3 ck	0	sw.		0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.19	741.4	30.02	762.5	74.0	23.3	82	sw.	2	0.9		10 ck	0	w.		0.02	0.5	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.08	764.0	73.0	22.8	84	sw.	6	2.7		4 cs	fg.	sw.		0.02	0.5	fair	B. L. Goulding.
Cheyenne, Wyoming	24.17	613.9	29.86	758.4	52.0	11.1	48	nw.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.27	743.4	29.96	761.0	63.1	17.3	75	w.	6	2.7		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	29.96	761.0	29.98	761.5	75	23.9	97	sw.	5	2.2		0	8 s		sw.	0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.37	746.0	30.01	762.2	71	21.7	76	n.	3	1.3		0	8 ks		w.	0.05	1.3	cloudy	J. F. Harrold.
Cleveland, Ohio	29.26	743.2	29.98	761.5	64.2	17.9	80	s.	4	1.8		2 c	0	sw.		2.06	52.3	clear	J. B. Newlin.
Coleman City, Texas	28.33	719.6	30.09	764.3	70	21.1	76	ne.	8	3.6		0	9 s		se.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.15	740.4	29.98	761.5	68	20.0	73	w.	2	0.9		1 ck	4 ks	w.	w.	inap.	inap.	fair	D. Cuthbertson.
Concho, Texas	28.18	715.8	30.06	763.5	71	21.7	76	ne.	4	1.8			10 s			0	0	cloudy	W. W. McConihe.
Custer, Fort, Montana	26.92	683.8	29.94	760.5	55	12.8	86	ne.	2	0.9		0	3 s		calm	0	0	clear	V. Verge.
Davenport, Iowa	29.38	746.2	30.01	762.2	61	16.1	78	nw.	6	2.7		5 k	3 s	nw.	nw.	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.28	642.1	29.92	760.0	67	19.4	68	calm	0	0		6 ck	0	n.		0	0	fair	J. Williams.
Dayton, Washington T'y	28.27	718.0	29.98	761.5	58.8	14.9	63	calm	0	0		4 c	0	sw.		0	0	fair	H. Clifford.
Deadwood, Dakota	25.50	647.7	29.92	760.0	57.0	13.9	77	s.	3	1.3		3 c	0	w.		0.02	0.5	clear	G. W. Scott.
Decatur, Texas																			D. J. Carr.
Delaware Breakwater, Del.	29.94	760.5	29.96	761.0	74	23.3	97	sw.	8	3.6		5 ck	4 s; hz			0	0	cloudy	A. Schneider.
Denison, Texas	29.28	743.7	30.06	763.5	70.0	21.1	90	n.	2	0.9		10 ck	0			0	0	cloudy	J. McGlone.
Denver, Colorado	24.83	630.7	29.84	757.9	59.5	15.3	51	s.	6	2.7		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.21	741.9	30.09	764.3	57	13.9	86	ne.	1	0.4		4 cs	3 s	nw.		0.18	4.6	fair	F. W. Conrad.
Detroit, Michigan	29.24	742.7	29.94	760.5	64.8	18.2	73	sw.	10	4.5		4 ck	0	w.		inap.	inap.	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.52	699.0	30.02	762.5	64.0	17.8	73	sw.	2	0.9		0	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.31	744.5	30.00	762.0	58.2	14.6	72	nw.	4	1.8		0	0			inap.	inap.	clear	J. Harvey Smith.
Duluth, Minnesota	29.30	744.2	30.02	762.5	59	15.0	75	nw.	22	9.8		0	0			0.15	3.8	clear	N. B. Conger.
Eagle Pass, Texas	29.25	742.9	30.04	763.0	70.1	24.5	82	se.	3	1.3		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.36	644.1	29.91	759.7	48	8.9	54	s.	10	4.5		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.86	758.4	29.92	760.0	58.0	14.4	93	s.	6	2.7			fg.		s.	0.30	7.6	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.34	694.4	29.98	761.5	60	15.6	72	ne.	4	1.8		5 ck	0			0.52	13.2	clear	W. J. Cundall.
El Paso, Texas	26.35	669.3	29.95	760.7	71	21.7	51	ne.	2	0.9		0	0			0	0	fair	J. F. Marshall.
Erie, Pennsylvania	29.22	742.2	29.94	760.5	67	19.4	78	sw.	3	1.3		0	0			1.44	36.6	clear	Peter Wood.
Escanaba, Michigan	29.25	742.9	29.89	759.2	55	12.8	80	nw.	8	3.6		3 k	0	nw.		0.51	13.0	clear	C. Dill.
Fredericksburg, Texas	28.34	719.8	30.04	763.0	75	23.9	64	calm	0	0		3 cs	0			0	0	clear	H. S. Miles.
Galveston, Texas	30.01	762.2	30.06	763.5	75	23.9	85	nw.	4	1.8			10 n		s.	0.51	13.0	heavy rain	E. O'C. MacInerney.
Grand Haven, Michigan	29.26	743.2	29.90	759.4	66.0	18.9	73	nw.	10	4.5		0	0			0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.33	643.4	29.90	759.4	65.4	18.6	52	calm	0	0		0	1 s			0.04	1.0	clear	Robert O. Lord.
Hatteras, North Carolina	30.03	762.7	30.05	763.3	77.0	25.0	85	sw.	16	7.2		3 c	4 k	w.	sw.	0	0	fair	R. M. Crawford.
Helena, Montana	25.90	657.8	29.96	761.0	62	16.7	63	sw.	4	1.8		6 k	0	w.		0	0	fair	S. Wheaton.
Henrietta, Texas																			J. W. Byram.
Huron, Dakota	28.76	730.5	30.08	764.0	55.9	13.3	90	se.	1	0.4			10 s			0.25	6.3	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.23	742.4	30.00	762.0	68	20.0	73	sw.	2	0.9		0	hz.			inap.	inap.	clear	O. Schutze
Indianola, Texas	30.01	762.2	30.04	763.0	79.0	26.1	91	s.	10	4.5		5 cs	2 ks	e.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.98	736.1	30.10	764.5	67	19.4	100	nw.	12	5.4			10 n			0.46	11.7	heavy rain	J. P. Sherry.
Jacksonville, Florida	30.07	763.8	30.11	764.8	83	28.3	72	s.	3	1.3		2 cs	0	sw.		0.42	10.7	clear	J. W. Smith.
Keogh, Fort, Montana	27.59	700.8	30.00	762.0	56	13.3	93	n.	2	0.9		0	0			0.08	2.0	clear	W. B. Stockman.
Keokuk, Iowa	29.37	746.0	30.00	762.0	66.5	19.2	72	n.	6	2.7		1 k	0	w.		0.06	1.5	clear	F. Z. Gosewisch.
Key West, Florida	30.06	763.5	30.08	764.0	83.0	28.3	80	e.	3	1.3			10 ks		e.	0	0	threatening	R. H. Paxton.
Kittyhawk, North Carolina	30.03	762.7	30.05	763.3	76.0	24.4	79	w.	13	5.8		5 k	2 s	w.	w.	0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.06	738.1	30.06	763.5	67	19.4	99	se.	1	0.4			10s; fg			0.24	6.1	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.25	742.9	30.00	762.0	60	15.6	70	n.	7	3.1		5 k	0	ne.		0	0	fair	S. C. Emery.
La Mesilla, New Mexico	26.18	665.0	29.92	760.0	63.7	17.6	74	calm	0	0		2 c	1 s			0.04	1.0	clear	N. D. Lane.
Leavenworth, Kansas	29.21	741.9	30.07	763.8	66	18.9	68	calm	0	0		4 k	0	nw.		0	0	fair	A. W. Browne.
Lewiston, Idaho	29.17	740.9	29.98	761.5	66.0	18.9	40	e.	1	0.4		3 cs	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.72	754.9	30.03	762.7	70	21.1	90	sw.	3	1.3		0	0			0.03	0.8	clear	W. U. Simons.
Los Angeles, California	29.65	753.1	30.04	763.0	60.2	15.7	81	sw.	2	0.9		0	0			0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.44	747.8	29.99	761.7	71	21.7	84	w.	1	0.4		3 k	5s; sk	w.		0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.34	745.2	30.01	762.2	71.0	21.7	84	calm	0	0			fg.			0.03	0.8	dense fog	W. R. Bushby.
Macon, Fort, North Carolina	30.04	763.0	30.05	763.3	78	25.6	82	sw.	8	3.6		5 cs	0			0	0	fair	F. P. Chaffee.
Madison, Wisconsin	29.00	736.6	29.98	761.5	57	13.9	86	w.	10	4.5		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.75	654.0			56	13.3	74	se.	8	3.6		0	0			0.01	0.3	clear	H. W. Dodge.
McKavett, Fort, Texas	27.88	708.1	30.08	764.0	73	22.8	68	ne.	3	1.3		8 cs	0			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.18	741.2	29.89	759.2	54	12.2	80	w.	10	4.5			10 s		nw.	0.22	5.6	cloudy	J. Gilligan.
Memphis, Tennessee	29.71	754.6	30.04	763.0	73	22.8	100	s.	4	1.8			10 s			0.35	8.9	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.22	742.2	29.95	760.7	58	14.4	75	nw.	12	5.4		0	0			0	0	clear	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.78	680.2	29.97	761.2	55	12.8	69	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.06	763.5	30.10	764.5	74	23.3	87	ne.	4	1.8	.....	0	5 ks	.....	ne.	0.12	3.0	fair	C. A. Read.
Montgomery, Alabama	29.88	758.9	30.10	764.5	73.5	23.1	92	nw.	1	0.4	.....	4 k	5ks;fg	w.	nw.	inap.	inap.	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.14	740.1	30.10	764.5	49	9.4	86	calm	0	0	.....	5 c	0	n.	.....	0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.02	637.1	30.02	762.5	70.5	21.4	86	sw.	4	1.8	.....	0	8 s	.....	sw.	0.50	12.7	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.85	605.8	29.92	760.0	50.5	10.3	96	w.	25	11.2	.....	.....	10n;fg	.....	w.	0.22	5.6	light rain	J. G. Pinsley.
Nashville, Tennessee	29.50	749.3	30.02	762.5	73.0	22.8	84	sw.	1	0.4	.....	3 ck	4 ks	sw.	sw.	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.82	757.4	29.93	760.2	71	21.7	90	sw.	5	2.2	.....	2 c	7s;hz	.....	sw.	0.09	2.3	cloudy	J. H. Sherman.
New London, Connecticut	29.90	759.4	29.05	760.7	70	21.1	100	se.	6	2.7	.....	.....	fg.	.....	.....	0.12	3.0	dense fog	J. G. Lynch.
New Orleans, Louisiana	30.01	762.2	30.06	763.5	79.3	26.3	78	calm	0	0	.....	0	sk.	.....	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	29.92	760.0	29.97	761.2	69.0	20.6	100	s.	4	1.8	.....	.....	fg.	.....	.....	0.10	2.5	dense fog	W. McGillivray.
New York, New York	29.78	756.4	29.95	760.7	72	22.2	97	sw.	6	2.7	.....	0	9ks;s	.....	sw.	0.23	5.8	cloudy	J. B. Merrill.
Norfolk, Virginia	29.98	761.5	30.01	762.2	75	23.9	90	sw.	8	3.6	.....	.....	10 s	.....	sw.	0.11	2.8	cloudy	H. L. Kemp.
North Platte, Nebraska	27.14	689.3	29.94	760.5	66.6	19.2	77	se.	10	4.5	.....	0	2 s	.....	.....	0.08	2.0	clear	E. F. Brady.
Olympia, Washington T'y	29.90	759.4	30.03	762.7	53.0	11.7	85	calm	0	0	.....	.....	sk.	.....	calm	0	0	dense smoke	J. Dascomb.
Ooglaamle, Pt. Barrow, Alas.	29.80	756.9	29.82	757.4	37.6	3.1	100	e.	6	2.7	.....	.....	10 s	.....	sw.	0.03	0.8	cloudy	P. H. Ray.
Omaha, Nebraska	28.96	735.6	30.09	764.3	60.8	16.0	84	e.	6	2.7	.....	3 cs	5 ks	e.	nw.	inap.	inap.	cloudy	A. Pollak.
Oswego, New York	29.56	750.8	29.88	758.9	71.0	21.7	79	w.	8	3.6	.....	4 k	0	w.	.....	0.01	0.3	fair	S. W. Beall.
Palestine, Texas	29.52	749.8	30.06	763.5	71.0	21.7	84	nw.	4	1.8	.....	3 cs	0	w.	.....	inap.	inap.	clear	L. M. Pindell.
Pensacola, Florida	30.06	763.5	30.09	764.3	76.1	24.5	90	ne.	5	2.2	.....	0	2 s	.....	sw.	0.13	3.3	clear	M. McGauran.
Philadelphia, Pa.	29.87	758.7	29.97	761.2	76	24.4	82	sw.	4	1.8	.....	2 cs	3 k;hz	w.	sw.	0.13	3.3	fair	T. F. Townsend.
Pike's Peak, Colorado	18.07	459 0	29.85	758.2	35	1.7	61	nw.	11	4.9	.....	0	1 s	.....	w.	0	0	clear	L. M. Dey.
Pioche, Nevada	24.17	613.9	29.90	759.4	65.5	18.6	48	s.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.18	741.2	29.97	761.2	68.5	20.3	88	sw.	3	1.3	.....	9 ck	0	w.	.....	0.28	7.1	cloudy	J. H. Bryce.
Poplar River, Montana	28.00	711.2	.....	.....	.....	.....	.....	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.05	763.3	30.06	763.5	80.3	26.8	79	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	M. Hermann.
Port Huron, Michigan	29.25	742.9	29.91	759.7	62.2	16.8	83	s.	7	3.1	.....	7 cs	0	w.	.....	0.61	15.5	fair	W. O. Bailey.
Portland, Maine	29.84	757.9	29.90	759.4	68.5	20.3	87	s.	6	2.7	.....	.....	10s;fg	.....	s;sw.	0.04	1.0	cloudy	W. W. Eichelberger.
Portland, Oregon	29.96	761.0	30.03	762.7	55.0	12.8	80	nw.	1	0.4	.....	0	hz.	.....	.....	0	0	dense haze	M. L. Hearne.
Prescott, Arizona	24.92	633.0	29.91	759.7	57	13.9	90	s.	2	0.9	.....	0	0	.....	.....	0.09	2.3	clear	J. McN. Wright.
Provincetown, Mass.	29.03	760.2	29.96	761.0	70.5	21.4	91	s.	7	3.1	.....	.....	10s;fg	.....	.....	0.04	1.0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.08	764.0	30.09	764.3	78	25.6	88	e.	6	2.7	.....	2 c	1 k	calm	calm	1.21	30.7	clear	W. J. Evans.
Red Bluff, California	29.57	751.1	29.93	760.2	71.2	21.8	50	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.82	757.4	30.05	763.3	77	25.0	58	calm	0	0	.....	2 ck	0	.....	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.24	742.7	29.89	759.2	67	19.4	90	w.	8	3.6	.....	0	7 k;hz	.....	w.	0.10	2.5	fair	E. W. McGann.
Roseburg, Oregon	29.41	747.8	29.98	761.5	56.5	13.6	80	calm	0	0	.....	0	hz	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.86	758.4	29.93	760.2	60.2	15.7	75	s.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.48	748.8	30.06	763.5	67.5	19.7	84	n.	6	2.7	.....	1 cs	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.20	741.7	30.04	763.0	55	12.8	86	n.	8	3.6	.....	5 cs	0	nw.	.....	0	0	fair	P. F. Lyons
St. Vincent, Minnesota	29.28	743.7	30.12	765.0	46	7.8	93	w.	5	2.2	.....	4 c	0	w.	.....	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.70	652.8	29.88	758.9	70	21 1	43	s.	4	1.8	.....	4 k	0	sw.	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.36	745.7	30.04	763.0	75.5	24.2	90	e.	2	0.9	.....	.....	10 s	.....	s.	0	0	cloudy	T. J. Kenan.
San Diego, California	29.92	760.0	29.99	761.7	63.9	17.7	90	nw.	4	1.8	.....	.....	fg.	.....	nw.	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.29	744.0	29.95	760.7	66.4	19.1	73	sw.	10	4.5	.....	5 ck	0	sw.	.....	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	29.91	759.7	29.94	760.5	75.0	23.9	90	sw.	11	4.9	.....	8 k	0	sw.	.....	0.02	0.5	cloudy	B. A. Blundon.
San Francisco, California	29.96	761.0	30.03	762.7	57	13.9	90	sw.	8	3.6	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.40	594.3	29.90	759.4	61	16.1	50	e.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.99	761.7	30.08	764.0	84	28.9	67	sw.	5	2.2	.....	2 cs	0	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.48	672.6	29.99	761.7	51	10.6	86	w.	2	0.9	.....	3 cs	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.81	757.2	30.04	763.0	69	20.6	93	calm	0	0	.....	.....	fg.	.....	.....	2.90	73.7	dense fog	E. N. Meekins.
Sill, Fort, Indian Territory	28.87	733.3	30.07	763.8	67.7	19.8	91	n.	3	1.3	.....	3 c	7 s	w.	.....	0.10	2.5	cloudy	T. Cleary.
Silver City, New Mexico	24.43	620.5	29.89	759.2	63	17.2	65	nw.	2	0.9	.....	2 k	4 ks	calm	calm	0.03	0.8	fair	J. B. Wallace.
Sitka, Alaska	30.01	762.2	30.07	763.8	51.5	10.8	82	se.	10	4.5	.....	.....	10 n	.....	se.	0.31	7.9	heavy rain	J. J. McLean.
Smith, Fort, Arkansas	29.59	751.6	30.05	763.3	69.0	20.6	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.03	762.7	30.06	763.5	76	24.4	90	sw.	7	3.1	.....	0	8 s	.....	sw.	0.03	0.8	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.01	711.4	29.99	761.7	56	13.3	74	sw.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.38	746.2	30.04	763.0	67.8	19.9	71	w.	1	0.4	.....	1 c	0	w.	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.80	756.9	29.93	760.2	72.1	22.3	97	s.	2	0.9	.....	.....	10 s	.....	s.	0.05	1.3	cloudy	T. S. Outram.
Springfield, Mo.	28.65	727.7	30.04	763.0	63.5	17.5	78	n.	5	2.2	.....	7 c	0	nw.	.....	0	0	fair	J. B. Marbury.
Starkville, Miss.	29.62	752.3	30.09	764.3	75	23.9	82	calm	0	0	.....	3 ck	5 s	.....	.....	0.22	5.6	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.32	719.3	30.10	764.5	51	10.6	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.11	688.6	30.05	763.3	70.0	21.1	82	se.	4	1.8	.....	.....	10 s	.....	se.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	29.90	759.4	29.95	760.7	62.0	16.7	97	s.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	G. Liebmann.
Toledo, Ohio	29.27	743.4	29.94	760.5	68	20.0	66	w.	7	3.1	.....	5 ck	0	w.	.....	0.05	1.3	fair	A. Buell.
Tucson, Arizona	27.59	700.8	29.91	759.7	73	22.8	84	w.	2	0.9	.....	.....	9 ks	.....	sw.	0.55	14.0	threatening	J. L. Whiteside.
Umatilla, Oregon	29.63	752.6	29.99	761.7	66	18.9	32	w.	5	2.2	.....	1 c	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.08	738.6	30.02	762.5	74	23.3	97	ne.	2	0.9	.....	0	0	.....	.....	0.85*	21.6*	clear	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	68.6	20.3	61	se.	.....	.....	1	.....	10 s	.....	s.	0	0	cloudy	D. Brooks.
Vicksburg, Mississippi	29.83	757.7	30.07	763.8	71	21.7	90	s.	1	0.4	.....	3 ck	0	sw.	.....	0.27	6.9	fair	H. P. Brisbane.
Visalia, California	29.56	750.8	29.93	760.2	67	19.4	63	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washakie, Fort, Wyoming	24.63	625.6	29.96	761.0	51.0	10.6	64	w.	1	0.4	.....	1 k	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	29.87	758.7	29.98	761.5	73.5	23.1	89	sw.	2	0.9	.....	1 cs	0	sw.	.....	0.06	1.5	clear	B. M. Purssell.
West Las Animas, Colorado	26.11	663.2	29.87	758 7	66.4	15.8	74	calm	0	0	.....	2 k	0	nw.	.....	0	0	clear	F. W. Brandenburg.
Williamsport, Pa.	29.35	745.5	29.93	760.2	68.8	20.4	90	w.	3	1.3	.....	.....	10 s	.....	.....	1.15	29.2	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.00	762.0	30.05	763.3	76	24.4	90	sw.	6	2.7	.....	.....	10 n	.....	sw.	0.52	13.2	light rain	A. T. Sherwood.
Winnemucca, Nevada	25.69	652.5	29.91	759.7	62	16.7	54	ne.	5	2.2	.....	0	3 s	.....	sw.	inap.	inap.	clear	J. Grover.
Yankton, Dakota	28.83	732.3	30.10	764.5	57	13.9	74	calm	0	0	.....	10 ck	0	.....	.....	0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.70	754.4	29.84	757.9	82.0	27.8	60	calm	0	0	.....	0	1 ks	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1	.....	.....	50.5	10.3	72	ne.	1	0.4	.....	1 cs	1 s	w.	.....	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.06	763 5	30.07	763.8	81	27.2	95	ne.	.....	.....	.....	0	5 ks	.....	.....	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.98	761.5	77	25.0	90	calm	0	0	.....	.....	10 ks	.....	calm	0.60	15.2	cloudy	J. I. Plume.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	81.3	27.4	75	nw.	1	0.4	.....	2ck;cs	0	ne.	.....	0.06	1.5	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	76	24.4	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa	29.90	759.4	29.98	761.5	81	27.2	72	e.	15	6.7	.....	3 k	2 cs	s.	se.	0	0	.....	F. M. Everett.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	78	25.6	86	e.	.....	.....	2	4 c	0	.....	.....	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.37	746.0	29.93	760.2	79	26.1	89	calm	.....	.....	0	0	1 k	.....	s.	0	0	clear	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	92	ne.	.....	.....	5	8 ck	0	se.	.....	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.02	762 5	30.04	763.0	79	26.1	74	calm	0	0	.....	2 c	0	.....	.....	0	0	fair	Robert Marson.
York Factory, B. A.	30.06	763.5	30.12	765.0	60.0	15.6	88	e.	13	5.8	.....	1 c	0	e.	.....	0	0	fair	Fortesque & Wood.

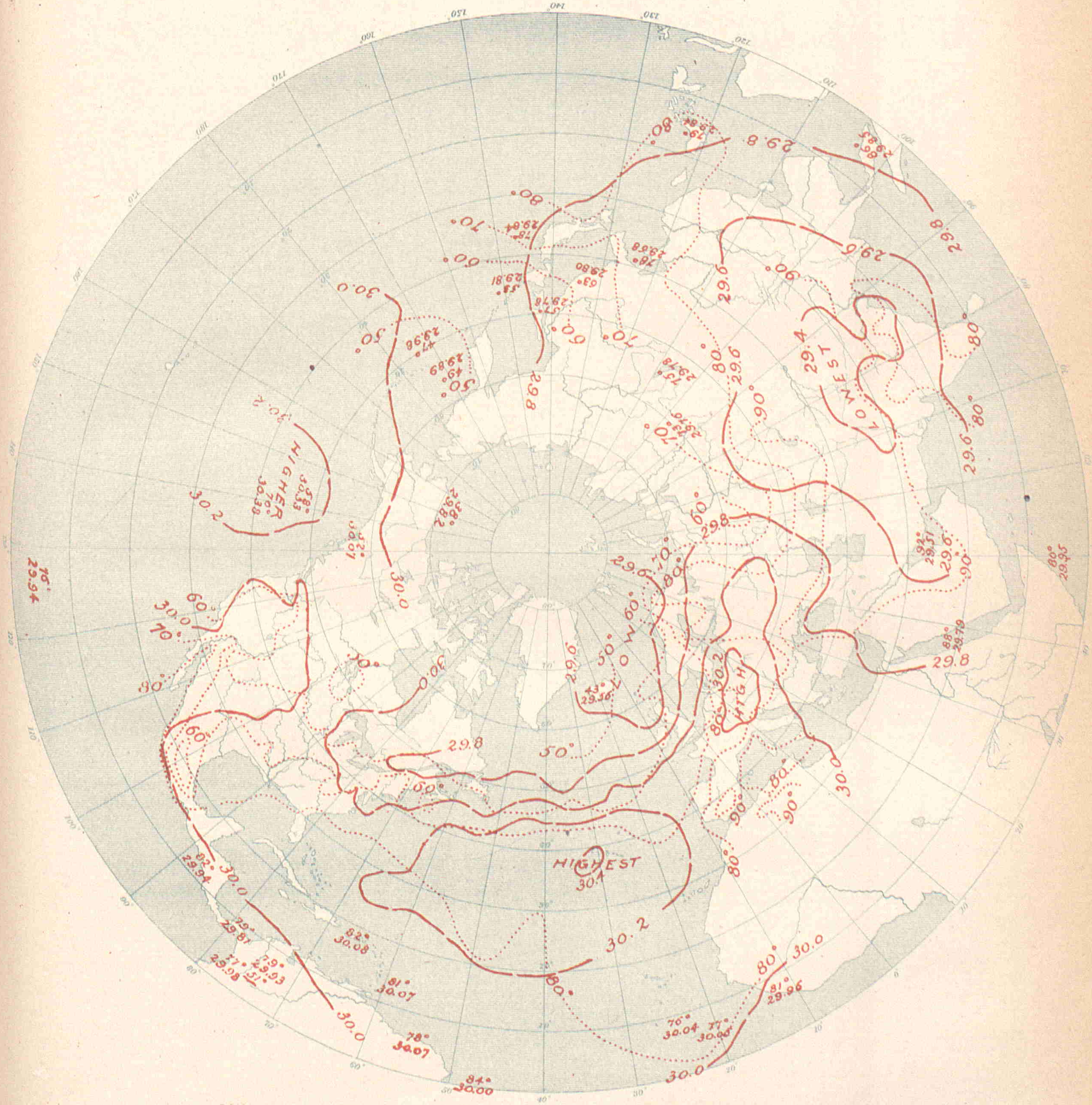
*Total for last five days.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S Alert, S. 14° 19′, W. 6° 53′	30.20	767.1	71.2	21.8	74	ese.			2-3		5							d. clouds.
H. M. S. Amethyst, Montevideo, Uruguay	30.17	766.3	43	6.1	79	n.			3		5							d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.84	757.9	77	25.0		n.			4		5	n.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.33	770.4	61	16.1		ese.			5		0							blue sky.
H. M. S. Comus, N. 49° 22′, W. 178° 05′	30.08	764.0	48	8.9	85	wsw.			2-3		8					2	sw.	misty.
H. M. S. Diamond, S. 10° 17′, E. 161° 38′	29.82	757.4	79	26.1	90	calm			0		8							d. clouds.
H. M. S. Dido, N. 14° 50′, W. 61° 30′	30.10	764.5	78	25.6		calm			0		4	e.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.19	766.8	81	27.2	82	ese.			1		4	ese.						d. clouds.
H. M. S. Eclipse, N. 4° 26′, E. 49° 40′	29.95	760.7	80	26.7		ssw.			4		3					3	ssw.	d. clouds.
H. M. S. Emerald, N. 6° 20′, W. 20° 10′	30.06	763.5	77	25.0	90	ssw.			4		5	ssw.				3	ssw.	d clouds.
H. M. S. Espiegle, S. 15° 39′, E. 166° 44′	29.91	759.7	76	24.4	90	e.			3-6		10					2	se.	showery.
H. M. S. Fantome, Saint Lucia, Jamaica, W. I	30.01	762.2	79	26.1		calm			0		5							d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.01	762.2	59.5	15.3	91	se.			1		10							overcast.
H. M. S. Garnet, N. 8° 50′, W. 22° 50′	30.07	763.8	80	26.7	82	calm			0		7							d. clouds.
H. M. S. Griffon, N. 52° 01′ W. 55° 52′	29.74	755.4	49	9.4	85	w.			4		4							d. clouds.
H. M. S. Iron Duke, N. 47° 52′, E. 140° 29′	29.78	756.4	57	13.9	87	nw.			1-2		6	nw.						d. clouds.
H. M. S. Kingfisher, N. 48° 10′, W. 124° 50′	30.00	762.0	53	11.7		calm			0		0							blue sky.
H. M. S. Lark. S. 10° 21′, E. 161° 51′	29.90	759.4	76.3	24.6	93	s.			2		6					1	s.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.99	761.7	50.5	10.3		ne.			1		10							foggy.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	29.70	754.4	74.5	23.6	93	calm			0		10							raining.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.81	757.2	79	26.1	82	wnw.			2		2					1	nw.	d. clouds.
H. M. S. Nelson, S. 35° 35′ E. 174° 45′	29.57	751.1	56	13.3	80	w.			5-6		5					3	wsw.	raining.
H. M. S. Northampton, Halifax, Nova Scotia	29.99	761.7	64.5	18.1	97	sse.			1		10							misty.
H. M. S. Orion, N. 36° 42′, E. 12° 35′	30.08	764.0	77.5	25.3		nne.			3		0					1	nne.	misty.
H. M. S. Orontes, N. 32° 18′, E. 26° 30′	29.84	757.9	79.5	26.4	93	w.			4		6	wsw.				3	w.	d. clouds
H. M. S. Pegasus, N. 2° 30′, E. 101° 38′	29.85	758.2	85.5	29.7	72	n.			1		0							blue sky.
H. M. S. Rambler, James Bay, Saint Helena Is'd	30.16	766.1	69	20.6	95	sse.			3		9	ese.						showery.
H. M. S. Rocket, Vancouver Island, B. C	29.99	761.7	53	11.7	93	calm			0		0							blue sky.
H. M. S. Sappho, S. 12° 13′ W. 149° 10′	29.88	758.9	78.5	25.8		ene.			4-5		7	e.				5	ene.	showery.
H. M. S. Swiftsure, Montevideo, Uruguay	30.25	768.3	44.5	6.9	84	nw.			4-6		6	n.						squally.
H. M. S. Sylvia, Maldonado, Uruguay	30.25	768.3	44.7	7.[illegible]	90	nnw.			2		5	nw.						d. clouds.
H. M. S. Tenedos, N. 50° 50′ W. 57° 23′	29.82	757.4	57.5	14.2	90	s.			4		2					2	s.	d. clouds.
H. E. S. Tourmaline, N. 33° 20′, E. 31° 30′	29.77	756.1	78	25.6		ssw.			2		1	ssw.				2	ssw.	blue sky.
H. M. S. Triumph, S. 51° 08′, W. 76° 00′	30.10	764.5	43	6.1	83	ssw.			2-4		7	wsw.				4	wsw.	raining.
H. M. S. Woodlark, N. 26° 45′ E. 51° 39′	29.41	747.0	91.5	33.1	67	nw.			6-7		0					6	nw.	misty.
H. M. S. Zephyr, N. 32° 07′, E. 132° 45′	29.70	754.4	81	27.2	95	ssw.			2-3		3	w.				1	ssw.	d. clouds.
Portuguese Naval.																		
Rio Lima, Santiago, Cape Verd Islands	30.07	763.8	79.7	26.5	84	ne.			2		1					2	ne.	blue sky.
Tamega, Macao, China	29.67	753.7	84.2	29.0	88	s.			4		4		s.					d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.03	762.7	78	25.6	91	sw.	3	1.3			8		sw.	0.83	21.1			fair.
Navy Yard, Portsmouth, N. H	29.91	759.7	69	20.6	85	calm	0	0			10		w.	0	0			cloudy.
Naval Hospital, Yokohama, Japan*	29.62	752.3	76.5	24.7	91	sw.			4		8		w.	0	0			cloudy.
Adams, Mare Island, Cal						sw.			1		8			0	0	sm'h		cloudy.
Alaska, Callao, Peru	29.95	760.7	59	15.0	94	e.			1		8			0	0	sm'h		cloudy.
Alert, San Francisco, Cal*	29.90	759.4	58	14.4	88	sw.			2		10			0	0	sm'h		foggy.
Alliance, Boston, Mass	29.94	760.5	71	21.7	90	wsw.			1		10			light	light			drizzling.
Ashuelot, Yokohama, Japan*	29.64	752.8	77	25.0	95	ssw.			2		5		ssw.					fair.
Brooklyn, Rio de Janeiro, Brazil	30.45	773.4	61	16.1	100	nw.	3	1.3			10		calm	0.29	7.4	sm'h		cloudy.
Colorado, New York, N. Y	29.93	760.2	74	23.3	90	ssw.	7	3.1			10		sw.	0.03	0.8			cloudy.
Constellation, Staten Island, N. Y*	29.96	761.0	74	23.3	90	sw.			3		8		sw.					fair.
Enterprise, Provincetown, Mass*	29.94	760.5	69	20.6	100	sw.			3		10		calm			sm'h		cloudy.
Essex, S. 37° 40′, W. 78° 02′	29.77	756.1	57	13.9	87	wnw.			6		5?		nw.			mod.		clear.?
Franklin, Norfolk, Va	30.02	762.5	74	23.3	100	sw.	8	3.6			10		w.	0	0			cloudy.
Galena, Malta, Mediterranean	30.06	763.5	76	24.4	91	nw.			2		0					sm'h		clear.
Independence, Mare Island, Cal	30.03	762.7	58	14.4	100	wsw.			3		10		wsw.	0	0			cloudy.
Iroquois, Mare Island, Cal	30.03	762.7	61	16.1	77	w.			2		10							cloudy
Kearsage, Norfolk, Va	30.01	762.2	74	23.3	100	wsw.			1		10		wsw.					cloudy.
Lackawanna, Callao, Peru*	29.97	761.2	60	15.6	88	se.			1		8		e.					cloudy.
Lancaster, Alexandria, Eyypt*	29.82	757.4	80	26.7	91	nnw.			3		0			0	0			clear.
Marion, S. 34° 54′, W. 56° 13′	30.15	765.8	44	6.7	100	n.			5		10			0	0	sm'h		cloudy.
Michigan, Detroit, Michigan	29.98	761.5	65	18.3	73	w.			2		2		sw.					fair.
Minnesota, Newport, R. I	30.02	762.5	70	21.1	95	ssw.	3	1.3			10							foggy.
Monocacy, Chefoo, China	29.68	753.9	78	25.6	82	nne.			1		5		calm			sm'h		fair.
New Hampshire, Newport, R. I	29.98	761.5	69	20.6	100	ssw.			3							sm'h		dense fog.
Nipsic, Alexandria, Egypt*	29.78	756.4	80	26.7	78	nw.			2		0					sm'h		clear.
Onward. Callao, Peru†	30.13	765.3	58	14.4	94	se.			1		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.64	752.8	78	25.6	95	w.			2		10		sw.					cloudy.
Passaic, Washington, D. C	30.00	762.0	75	23.9	100	sw.			1		2?							cloudy?
Pensacola, Panama, Panama*	29.81	757.2	79	26.1	91	nw.	5	2.2			5		ne.	0.06	1.5	sm'h		fair.
Portsmouth, N. 38° 03′ E. 1° 33′*	30.15	765.8	73	22.8	100	ene.			4		2					sm'h		clear.
Powhatan, Pensacola, Florida	30.06	763.5	82	27.8	87	n.			1		2		s.					clear.
Quinnebaug, Alexandria, Egypt	29.82	757.4	81	27.2	78	wnw.			3		0					sm'h		hazy.
Ranger, Mare Island, Cal	30.01	762 2	60	15.6	76	sw.			3		10			0	0			cloudy.
Richmond, Yokohama, Japan*	29.69	754.1	78	25.6	95	ssw.			2		5		ssw.	0	0			fair.
Saratoga, N. 39° 11′, E. 0° 47′	30.14	765.5	79	26.1	90	e.			2		1		calm	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.20	767.1	77	25.0	95	sw.			1		5		sw.	0.025	0.6			fair.
Swatara, Yokohama, Japan*	29.57	751.1	78	25.6	91	ssw.			3		5		sw.			mod.	ssw.	fair.
Tennessee, Provincetown, Mass	30.01	762.2	70	21.1	100	s.	7	3.1			10			0.04	1.0			cloudy.
Vandalia, Portsmouth, N. H*	29.91	759.7	67	19.4	95	calm			0		10		sw.					cloudy.
Wabash, Boston, Mass	29.94	760.5	70	21.1	90	sw.	4	1.8			10		sw.	0.01	0.3			drizzling.
Wachusetts, Fort Wrangle, Alaska†	30.31	769.9	50	10.0	93	ene.			1		10		se.			sm'h		rainy.
Wyoming, Port Royal, S. C*	30.07	763.8	77	25.0	82	wsw.	4	1.8			5		s.	0	0			fair.
Yantic, Provincetown, Mass	29.98	761.5	69	20.5	100	ssw.			2		10							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, Glasgow, Scotland *	29.70	754.4	68	20.0	.....	ssw.	.....	.....	5	.....	7	.....	ssw.	.....	.....	.....	.....	cloudy.
S. S. Nova Scotian, St. John's, N. F	29.89	759.2	57	13.9	.....	ese.	.....	.....	3	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. N. 42° 30′, W. 66° 17′*.	29.94	760.5	58	14.4	.....	s.	.....	.....	3	.....	9	.....	s.	0	0	light	s.	foggy.
S. S. Waldensian, N. 50° 14′, W. 35° 19′*	29.77	756.1	57	13.9	.....	sw.	.....	.....	4	.....	10	.....	wsw.	sh'rs	sh'rs	short	sw.	squally
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, Liverpool, Eng *†	29.85	758.2	.....	.....	.....	wsw.	.....	.....	4	.....	4?	.....	s.	1 h'r	1 h'r	.....	.....	cloudy?
S. S. Lord Gough, Philadelphia, Pa	29.89	759.2	82	27.8	.....	sw.	.....	.....	3	.....	5	.....	sw.	0	0	.....	.....	fair.
AMSTERDAM LINE.																		
S. S Jason, N. 49° 00′ W. 31° 18′	29.98	761.4	57.2	14.0	.....	nw.	.....	.....	5	.....	8 u	.....	.....	.....	.....	6	nw.	raining.
ANCHOR LINE.																		
S. S. Alexandria, Genoa, Italy	30.16	766.1	80	26 7	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. Assyria, N. 40° 40′, W. 66° 09′*†	30.28	769.1	70	21.1	.....	s.	.....	.....	3	.....	5	.....	s.	0	0	sm'h	.....	hazy.
S. S. Bolivia, N. 42° 13′. W. 50° 58′	30.26	768.6	62	16.7	.....	e.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Ethiopia, N. 48° 40′, W. 32° 50′	29.85	758.2	60	15.6	94	w.	.....	.....	4	.....	7?	.....	w.	1 h'r	1 h'r	high	w.	overcast?
S. S. Galatia, N. 21° 03′ E. 38° 06′†	29.99	761.7	88.3	31.3	.....	n.	.....	.....	4	.....	1	.....	wnw.	0	0	mod.	.....	
S. S. India, N. 40° 49′, W. 25° 52′*	30.22	767.6	74	23.3	85	var.	.....	.....	.....	.....	3	.....	.....	.....	.....	h'vy	nw.	fair.
ATLAS LINE.																		
S. S. Ailsa, N. 23° 50′ W. 74° 10′†	30.00	762.0	84	28.9	83	ese.	.....	.....	4	.....	2	.....	se.	0	0	mod.	ese.	clear.
S. S. Alvo, Savanilla, U. S. C.	29.89	759.2	.....	.....	.....	.....	.....	.....	3	.....	1	.....	.....	0	0	.....	.....	
S. S. Antillas, Miragoane, Hayti, W. I.*†	30.20	767.1	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 10° 44′, W. 29° 09′	30.13	765.3	78	25.6	96	ese.	.....	.....	4	.....	7	.....	.....	.....	.....	.....	.....	blue sky
S. S. Basil, N. 15° 13°, W. 27° 13′	30.09	764.3	76.5	24.7	81	nne.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. Baroda, S. 35° 05′, E. 20° 34′	30.33	770.4	59.5	15.3	94	s.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	misty.
S. S. City of Agra, S. 6° 56′, W. 27° 20′	30.14	765.5	81	27.2	84	ese.	.....	.....	5	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Cipero, N. 45° 03′ W. 25° 21′	30.26	768.6	62.2	16.8	66	w.	.....	.....	3	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Commewyne, N. 18° 07′, W. 59° 17′	30.11	764.8	83	28.3	70	ene.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Gordon Castle, N. 41° 02′, W. 30° 41′	30.40	772.1	74.8	23.8	47	calm	.....	.....	0	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Markland, S. 36° 22′, W. 102° 18′	30.14	765.5	56	13.3	100	ne.	.....	.....	3	.....	.....	.....	.....	.....	.....	3	sw.	misty.
Bkt. May Hulse, N. 8° 20′, W. 24° 02′	30.04	763.0	76	24.4	95	ssw.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	overcast.
S. S. Oamarn, S. 34° 48′, E. 20° 06′	30.37	771.4	59.5	15.3	88	se.	.....	.....	1	.....	5	.....	.....	.....	.....	.....	.....	foggy.
S. S. Pole Star, N. 29° 48′ W. 41° 02′.	30.32	770.1	81	27.2	95	ene.	.....	.....	3	.....	5	.....	.....	.....	.....	.....	.....	blue sky
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 23° 36′, W. 107° 58′*†	29.95	760.7	85	29.4	91	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
CUNARD LINE.																		
S. S. Gallia, New York, N. Y	30.03	762.7	73	22.8	.....	ssw.	.....	.....	4	.....	5	.....	sw.	0	0	.....	.....	fine.
S. S. Marathon, N. 42° 40′, W. 47° 28′	30.32	770.1	71	21.7	.....	nw.	.....	.....	1	.....	1	.....	.....	0	0	sm'h	se.	fine.
S. S. Scythia, N. 49° 55′, W. 25° 56′.	29.97	761.2	59	15.0	76	wsw.	.....	.....	3	.....	7	.....	wsw.	sh'rs	sh'rs	h'vy	cross	cloudy.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. Ville de Marseilles, Marseilles, France*†	30.08	764.0	77	25.0	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
GUION LINE.																		
S. S. Arizona, N. 41° 02′, W. 66° 19′	30.05	763.3	65	18.3	.....	sw.	.....	.....	4	.....	.....	.....	.....	0	0	mod.	sw.	dense fog.
S. S. Wisconsin, N. 49° 48′, W. 27° 10′	29.77	756.1	58	14.4	87	w.	.....	.....	4	.....	8	.....	w.	0	0	cross	n.	hazy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 49° 53′ W. 8° 46′ †	30.05	763.3	.....	.....	.....	sw.	.....	.....	6	.....	2	.....	sw.	0	0	h'vy	sw.	
S. S. Cimbria, N. 41° 11′, W. 50° 27′	30.30	769.6	71	21.7	.....	ene.	.....	.....	3	.....	7	.....	s.	0	0	mod.	ese.	fair.
S. S. Herder, N. 45° 02′, W. 34° 25′	30.25	768 4	66	18.9	.....	w.	.....	.....	3	.....	4?	.....	ne.	0	0	mod.	w.	cloudy?
S. S. Silesia, New York, N. Y.†	30.06	763.5	.....	.....	.....	sw.	.....	.....	1	.....	5	.....	.....	2 h'r	2 h'r	.....	.....	fair.
S. S. Wieland, N. 47° 46′, W. 28° 35′	30.09	764.3	57	13.9	.....	ssw.	.....	.....	6	.....	10	.....	sw.	4 h'r	4 h'r	5	sw.	rainy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 12° 00′, W. 34° 50′*†	30.32	770.1	78	25.6	.....	sse.	.....	.....	4	.....	4	.....	sse.	shr's	shr's	long	s.	clear.
MALLORY LINE.																		
S. S. Colorado, New York, N. Y. †	29.95	760.7	75	23.9	.....	n.	.....	.....	1	.....	7	.....	n.	3 h'r	3 h'r	.....	.....	cloudy
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Staten Island, N. Y.*†	30.00	762.0	76	24.4	90	w.	.....	.....	2	.....	3	.....	w.	½ h'r	½ h'r	.....	.....	fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, off Lizard, England†	30.16	766.1	65	18.3	94	ssw.	.....	.....	5	.....	0	.....	.....	0	0	sm'h	.....	fine.
S. S. Hermod, N. 49° 46′, W. 12° 50′*†	29.72	754.9	60.8	16.0	.....	w.	.....	.....	6	.....	8	.....	w.	5 h'r	5 h'r	r'gh	w.	threatening
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, Para river, Brazil	29.62	752.3	.....	.....	.....	e.	.....	.....	3	.....	.....	.....	se.	0	0	.....	.....	fine.
NATIONAL LINE.																		
S. S. Denmark, N. 42° 41′, W. 44° 18′	30.31	769.9	70	21.1	.....	ssw.	.....	.....	4	.....	5	.....	sw.	0	0	slight	w.	fine.
S. S. Erin, N. 43° 39′ W. 42° 02′	30.27	768.8	70	21.1	.....	wsw.	.....	.....	4	.....	0	.....	.....	0	0	sm'h	.....	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 38° 05′. W. 74° 00′†	30.07	763.8	74	23.3	.....	ssw.	.....	.....	3	.....	10	.....	ssw.	0	0	g'ntle	s.	cloudy.
S. S. Saratoga, Havana, Cuba, W. I†	30.30	769.6	82	27.8	78	calm	.....	.....	0	.....	0	.....	.....	12 h'r	12 h'r	.....	.....	clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 40° 17′, W. 73° 54′†	30.19	766.8	74	23.3	95	wsw.	.....	.....	3	.....	5	.....	sw.	0	0	.....	.....	fair.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. State of Nebraska, N. 40° 30′, W. 70° 00′†	30.04	763.0	70	21.1	.....	s.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	hazy.
NORTH GERMAN LLOYD.																		
S. S. America, N. 47° 15′, W. 33° 16′*	30.05	763.3	60.8	16.0	.....	wsw.	.....	.....	6	.....	7	.....	wsw.	.....	.....	.....	wsw.	showery.
S. S. Gen. Werder, N. 47° 28′, W. 32° 28′	30.00	762.0	.....	.....	.....	wsw.	.....	.....	6	.....	6	.....	wsw.	6 h'r	6 h'r	r'gh	wsw.	cloudy.
S. S. Habsburg, N. 42° 23′, W. 44° 03′	30.34	770.6	70.7	21.5	.....	ssw.	.....	.....	4	.....	5	.....	sw.	0	0	mod.	ssw.	fair.
S. S. Hohenzollern, N. 51° 02′, E. 1° 15′*	30.06	763.5	59.9	15.5	.....	sw.	.....	.....	4	.....	1	.....	sw.	0	0	mod.	sw.	clear.
S. S. Ohio, Bremerhaven, Germany	30.15	765.8	.....	.....	.....	wnw.	.....	.....	6	.....	3	.....	w.	0	0	.....	.....	fair.
S. S. Rhein, N. 49° 48′, W. 7° 24′	30.01	762.2	.....	.....	.....	wsw.	.....	.....	5	.....	3	.....	wsw.	0	0	rg'h	sw.	fair.
S. S. Salier, N. 48° 13′ W. 22° 00′	30.14	765.5	51.8	11.0	.....	w.	.....	.....	5	.....	8	.....	w.	4 h'r	4 h'r	r'gh	wnw.	cloudy.
S. S. Strassburg, N. 41° 13′, W. 64° 26′	30.15	765.8	70.0	21.1	96	s.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 46° 51′, E. 170° 00′.*†	29.88	758.9	47	8.3	92	ese.	.....	.....	5	.....	10	.....	se.	0	0	sm'h	.....	foggy.
S. S. Belgic, San Francisco, California†	30.08	764.0	57	13.9	87	sw.	.....	.....	2	.....	10	.....	sw.	.....	.....	.....	.....	foggy.
S. S. Gaelic, N. 40° 54′, W. 142° 04′†	30.38	771.6	70	21.1	84	w.	.....	.....	2	.....	10	.....	.....	.....	.....	sm'h	.....	overcast.
S. S. Oceanic, N. 31° 20′, E. 132° 53′*	29.79	756.7	81	27.2	91	ssw.	.....	.....	4	.....	5	.....	s.	.....	.....	sm'h	.....	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.17	766.3	.....	.....	.....	sw.	.....	.....	1	.....	2	.....	.....	0	0	.....	.....	clear.
S. S. City of Columbus, Savannah, Ga†	30.04	763.0	.....	.....	.....	wsw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear
S. S. Seminole, Boston, Mass.†	29.92	760.0	76	24.4	90	s.	.....	.....	1	.....	10	.....	s.	6 h'r	6 h'r	.....	.....	raining.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 46° 36′, W. 124° 40′†	30.00	762.0	50	10.0	96	n.	.....	.....	3	.....	10	.....	calm	0	0	mod.	n.	misty.
S. S. Oregon, San Francisco, Cal. †	30.03	762.7	57	13.9	87	s.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	gloomy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 33° 41′, W. 118° 12′ †	29.95	760.7	62	16.7	88	wnw.	.....	.....	3	.....	2	.....	e.	.....	.....	sm'h	.....	fair.
S. S. Idaho, N. 59° 00′, W. 133° 47′†	30.13	765.3	47	8.3	100	ne.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	.....	rainy.
S. S. State of California, Portland, Oregon†	30.03	762.7	53	11.7	86	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Victoria, Nanaimo, Vancouver's I'd†	29.94	760.5	59	15.0	94	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	30.39	771.9	56	13.3	75	sw.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of New York, S. 22° 51′, W. 174° 55′ †	29.98	761.5	69	20.6	70	s.	.....	.....	3	.....	10	.....	ssw.	3 h'r	3 h'r	h'vy	sw.	squally.
S. S. City of Pekin, N. 45° 32′ W. 143° 10′†	30.23	767.8	58	14.4	88	w.	.....	.....	2	.....	10	.....	w.	0	0	sm'h	.....	misty.
S. S. City of Rio de Janeiro, N. 12° 10′, W. 88° 15′*†	30.14	765.5	82	27.8	83	ene.	.....	.....	5	.....	8	.....	e.	0	0	mod.	se.	fair.
S. S. City of Sydney, S. 32° 55′, E. 178° 12′†	29.69	754.1	59	15.0	65	ssw.	.....	.....	5	.....	5	.....	sw.	0	0	mod.	sw.	fair.
S. S. City of Tokio, N. 35° 17′, E. 143° 27′†	29.94	760.5	78	25.6	91	sw.	.....	.....	5	.....	5	.....	sw.	0	0	small	sw.	fine.
S. S Colon, N. 16° 53′, W. 75° 23′†	30.06	763.5	83	28.3	.....	e.	.....	.....	4	.....	3	.....	ne.	0	0	mod.	ne.	fair.
S. S. Colima, Acapulco, Mexico†	29.97	761.2	80	26.7	87	calm	.....	.....	0	.....	3	.....	w.	0.22	5.6	.....	.....	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, N. 27° 12′, W. 66° 35′	30.02	762.5	82	27.8		ene.			2		10			0	0	sm'h		overcast.?
S. S. Bermuda, Roseau, W. I†	30.08	764.0	83	28.3		se.			2		4?		ese.	sh'rs	sh'rs	sm'h		cloudy.
RED STAR LINE.																		
S. S. Belgenland, N. 43° 53′, W. 39° 16′†	30.39	771.9	72	22.2	85	w.			5		9			0	0	sm'h	w.	
S. S. Nederland, N. 49° 12′, W. 11° 42′†	30.07	763.8	61	16.1	71	wsw.			4		2		ese.	0	0	mod.	wsw.	clear.
S. S. Rhynland, Jersey City, N. J.	30.00	762.0	74	23.3	86	sw.			3		8		wsw.	0.2	5.			cloudy.
S. S. Vaderland, N. 48° 25′, W. 17° 36′	29.99	761.7	60	15.6	71	wsw.			5		5		wsw.	3 h'r	3 h'r	cross	w.	cloudy.
ROTTERDAM LINE.																		
S. S. P. Caland, N. 40° —′ W. 51° 20′	30.25	768.3	71.6	22	91	nnw.			2		6 n		n.			sm'h	nw.	fair.
S. S. W. A. Scholten, New York, N. Y.	29.94	760.5	74.5	23.6	98	ssw.			3		8		sw.	0	0			hazy.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.66	753.4	66	18.9		sw.			5		6?		sw.	sh'rs	sh'rs			clear.?
S. S. State of Indiana, N. 45° 51′, W. 41° 40′†	30.49	774.4	61	16.1		wsw.			4		2		wsw.	0	0	mod.	wsw.	clear.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.39	771.9	76.1	24.5		ssw.			2		3		ssw.	0	0			clear.
WARREN LINE.																		
S. S. Iowa, N. 49° 19′, W. 23° 46′ *†	30.14	765.5	56	13.3		wsw.			4		5		wsw.	1 h'r	1 h'r	r'gh	wsw.	fair.
WHITE CROSS LINE.																		
S. S. Plantyn, Antwerp, Belgium	30.15	765.8							4		3		wsw.	0	0			fine.
WHITE STAR LINE.																		
S. S. Baltic, N. 48° 30′ W. 32° 46′†	29.98	761.5	59	15.0	94	sw.			5		10		w.	2 h'r	2 h'r	3	nw.	overcast.
S. S. Britannic, N. 43° 26′, W. 47° 37′†	30.32	770.1	64	17.8	89	se.			2		2		nw.			sm'h		d clouds.
S. S. Celtic, Liverpool, Eng†	29.99	761.7	67	19.4	74	wsw.			4		2		wsw.	0	0			fair.
S. S. Germanic, N. 43° 11′, W 44° 31′†	30.38	771.6	68	20.0		wsw.			5		3		wsw.			sm'h		d clouds.
S. S. Republic, N. 52° 00′. W. 6° 55′†	30.07	763.8	58	14.4	94	sw.			5		9		wsw.	sh'rs	sh'rs	sm'h		overcast.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa†	30.02	762.5	76	24.4		nw.							nnw.	0	0			
MISCELLANEOUS.																		
Schr. Ajax, N. 28° 17′ W. 90° 40′†	30.11	764.8				se.			1		5		se.	0	0	sm'h	se.	fair.
Bk. Alpha, N. 40° 10′, W. 72° 40′†	29.95	760.7	72	22.2		w.			1		8		s.	0	0	mod	se.	cloudy.
Schr. Annie Lewis, Aransas Pass, Texas†	30.19	766.8	81	27.2		sse.			2		2		sse.	0	0	long	sse.	clearing.
Bk. Anna Thorman, S. 39° 07′, E. 29° 53′	30.11	764.8	61.9	16.6	76	wsw.			7		7 k		wsw.	0	0	high	cross	cloudy.
S. S. Antonio Lopez, N. 22° 39′, W. 47° 34′	30.23	767.8	79	26.1	78	e.			4		2			0	0	mod.		clear.
Bk. Argonaut, N. 50° 11′, W. 30° 29′*†	29.96	761.0	53.6	12.0		ese.			4		10		s.	3 h'r	3 h'r	long	wnw.	raining.
Schr. Asa Eldridge, Off Key West, Fla†	30.16	766.1				ese.			3		2		se.	2 h'r	2 h'r		e.	fair.
S. S. Burswell, N. 43° 06′, W. 31° 56′*†	30.32	770.1	75	23.9		wsw.			3		1		w.	0	0	high	nnw.	clear.
Bk. Cato, N. 59° 52′, E. 2° 35′*†	30.00	762.0				s.			4		4?		s.	0	0	mod.	s.	cloudy.?
Bk. Celestina, S. 30° 34′ W. 33° 30′*†	30.20	767.1				sw.			3		8		wsw.	0	0	long	sw.	fair.
Schr. C. R. Flint, N. 28° 27′, W. 83° 30′†	30.33	770.4	82	27.8		calm			0		2			1 h'r	1 h'r	sm'h		clear.
S. Cornelius, N. 39° 48′, W. 47° 00′*†	30.54	775.7	77	25.0		sse.			3		2		s.	0	0	long	ne.	clear.
S. S. D. J. Foley, N. 24° 51′, W. 74° 04′†	30.07	763.8				ese.			5		3		se.	0	0	sm'h	se.	clear.
Schr. Edith R. Seward, Ponce, Porto Rico, W. I*†	30.12	765.0	83	28.3		ne.			1		2		e.	0	0			clear.
S. E. J. Spicer, New York. N. Y*	29.93	760.2	70	24.4		wsw.			2		8		w.	3 h'r	3 h'r			
S. Enoch Train, N. 40° 10′, W. 46° 20′*†	30.40	772.1				se.			1		0			0	0	light	ne.	fine.
Bk. Essex, S. 39° 07′, E. 20° 39′*†	30.23	767.8	65	18.3		w.			3		6?		w.	0	0	h'vy	cross	clear.?
Bk. Freya, N. 37° 26′, W. 74° 39′						ssw.			3		5		sw.	0	0	sm'h		fair.
S. Grecian, Hong Kong, China*†	29.70	754.4	85	29.4		se.			4		3		sse.	0	0			clear.
Bk Hattie G. McFarland, Philadelphia, Pa*†	30.00	762.0	74	23.3		sw.			1		3		w.	3 h'r	3 h'r			clear.
S. Hedwig, N. 41° 45′, E. 17° 17′	30.10	764.5	74.8	23.8	83	nw.			5		0			0	0	short	nw.	fine.
Bk. Horace Scudder, N. 22° 34′, W. 57° 46′†	30.25	768.3	82	27.8		e.			2		5		e.	5 h'r	5 h'r	mod	e.	blue sky.
S. Ivy, N. 3° 58′ W. 127° 42′†	30.14	765.5	76	24.4		se.			5		2		ese.	0	0	mod.	sse.	fair.
S. Ismir, S. 39° 16′ E. 82° 15′†	30.02	762.5				nw.			6		8		nw.	1 h'r	1 h'r	r'gh	nw.	raining.
Schr. James Slater, N. 0° 25′, W. 47° 50′*†	30.30	769.6	84	28.9		ene.			3		2		ne.	rain	rain	mod	ne.	fine.
Schr. Jennie N. Huddell, Boston, Mass†	30.10	764.5	72	22.2	100	ssw.			3		10		sw.					light rain
Bk. Johanne, N. 49° 10′, W. 33° 00′*†..	29.80	756.9	59	15.0		wsw.			6		5		w.	rain	rain	mod.	sw.	hazy.
Schr. John L. Thomas, N. 24° 15′, W. 84° 07′*†	30.18	766.6				e.			4		1		ese.	1 h'r	1 h'r	short	ese.	clear.
Bg. John Wesley, N. 22° 02′ W. 71° 59′†	29.98	761.5				e.			5		2		e.	½ hr	½ h'r	mod.	e.	hazy.
Bk. Joseph A. Ropes, S. 6° 42′, W. 28° 44′*†	30.12	765.0	79	26.1	86	se.			4		8		se.	0	0	mod.	se.	cloudy.
Bkt. Josephine, N. 32° 03′ W. 74° 21′†	30.15	765.8	83	28.3	70	sw.			3		0			0	0	sm'h		clear.
Bkt. Kryolith, N. 45° 29′, W. 54° 45′*†	30.10	764.5				wsw.			4		2		wsw.			short	nw.	clear.
Light House Tender, Laurel, Off Cedar Keys, Fla†	30.14	765.5	84	28.9		se.			1		1		se.	0	0			clear.
Bk. Liberia, N. 13° 05′, W 31° 56′.*..	30.01	762.2	79	26.1	86	ene.			6		4		ne.	0	0		s.	
S. S. Madrid, N. 40° 45′, W. 55° 43′*†	30.40	772.1	73	22.8		ese.			2		0			0	0	sm'h		clear.
S. S. Nebo, N. 44° 57′, W. 9° 04′*†	30.20	767.1				ssw.			4		2		ssw.	0	0	r'gh	w.	clear.
S. Orealla, N. 35° 05′, W. 49° 42′*	30.07	763.8	78	25.6		ssw.			3		2		sw.	0	0	sm'h	sw.	clear.
S. Paramita, S. 2° 10′, W. 118° 00′†	29.80	756.9	76	24.4		se.			4		0			0	0	cross		clear.
S. S. Sunbeam, Odessa, Russia	29.79	756.7	85	29.4	64	calm			0		4							d. clouds.
S. Sovereign of the Sea, S. 5° 29′, W. 30° 16′*†	30.00	762.0	78	25.6	90	e.			2		9		ene.	10 h'r	10 h'r	r'gh	ese.	rainy.
Bg. Teneriffe, Cardenas, Cuba. W. I	30.08	764.0				sse.			2									
Bk. Truro, N. 41° 20′, W. 41° 50′*†	30.30	769.6				sw.			3		7		sw.	0	0	mod.	n.	fair.
U. S. F. C. S. S. Fish Hawk, Washington, D. C†	30.21	767.3	81	27.2	91	calm			0		6		calm	0.01	0.3			fair.
Schr. Viola Reppard, Baltimore, Md†	29.90	759.4	80	26.7		nw.			1		2			0	0			
Bk Wm. Wilcox, S. 35° 05′, W. 57° 00′*†	30.30	769.6	54	12.2		n.			2		8		n.	0	0	sm'h		fair.

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



UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY

By Order of the Secretary of War.

W.B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 20, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.11	764.8	78.8	26.0	71	s.			2		2			0	0	fair	Bouvier.
Algiers			30.11	764.9	78.1	25.6	66	ne.			2		6			0	0	cloudy	Nicolas.
La Galle			30.12	765.0	77.7	25.4	71	ne.			3		1			0	0	very fair	Fonfrède.
Tunis			30.11	764.8															Jacques.
Saida			30.17	766.3	99.0	37.2	23	sw.			2		3			c	0	pretty fair	Perés.
Tebessa			30.17	766.2	86.0	30.0	16	n.			1		0			0	0	clear	Derché.
Geriville					99.3	37.4	Inap.	nnw.			2		4			0	0	cloudy	Lonchamp.
Laghouat			30.18	766.6	103.3	39.6	25	ne.			3		3			0.354	9.0	pretty fair	Abraham.
Biskra			30.17	766.2	97.2	36.2	29	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.29	769.3	30.38	771.6	42.2	5.7	91	sw.	4	1.8			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.50	749.3	30.02	762.5	82.4	28.0	30	ne.			3		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.37	746.0	30.10	764.6	80.2	26.8	45	e.	6.3	2.8			8			0.008	0.2		Dr. Wierzbiski.
Eperies	29.21	741.8	30.04	763.1	78.4	25.8	60	n.			2	cs	7 s		s.	0	0		Julius Mikolik.
Gratz	28.85	732.9	30.05	763.2	78.8	26.0	75	se.			1		0			0	0		Andreas Rospini.
Hermannstadt	28.59	726.1	29.98	761.4	69.1	20.6	87	sw.			1		10			0.118	3.0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.80	731.4	30.07	763.8	79.2	26.2	58	calm			0	0	1 k			0	0	clear	The Staff.
Lemberg	29.15	740.4	30.09	764.3	78.8	26.0	67	e.			2		8			0	0		Dr. T. Stanecki.
Pola	29.92	759.9	30.02	762.6	82.9	28.3	48	wnw.			3		0			0	0		I. R. Hydrographic Office.
Szathmar	29.52	749.7	29.96	761.0	84.0	28.9	52	e.			2		5			0	0		Joseph Midlinszky, S. J.
Szegedin.*	29.65	753.0	29.91	759.7	82.2	27.9	72	nw.			3		6			0	0		Karl Stancel.
Trieste	29.95	760.7	30.05	763.3	85.6	29.8	51	sw.			1		0			0	0		Royal Academy.
Vienna	29.40	746.8	30.08	764.0	83.7	28.7	37	nw.			2		0			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.73	755.1	29.82	757.4	63.3	17.4	52	sw.	21	9.4			5			0	0	blue sky	W. Boswell
Armagh, Observatory	29.74	755 4	29.98	761.5	54.6	12.6	94	sw.	10	4.5			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y					62.6	17.0	69	wsw.	22	9.8			8					overcast	John Hartnup.
Bolton, Sharples	29.52	749.8	30.05	763.3	59.0	15.0	73	wsw.	12	5.4			8					raining	Thomas Mackereth, ton.
Bradford, Yorkshire	29.65	753.1	30.05	763.3	57.2	14.0	76	sw.			1		10			0.08	2.0	overcast	McLandsborough & Pres
Bridgetown, Barbadoes	30.06	763.5	30.08	764.0	83.0	28.3	70	ne.			1		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			30.14	765.5	72.0	22.2	60	sw.			1.0		5					d. clouds	John McLaren.
Chatham, School M. E.	30.07	763.8	30.19	766.8	70.4	21.3	56	sw.			1		5					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.97	761.2	30.19	766.8	64.3	17.9	66	sw.			3		6					d. clouds	The Staff.
Fort Napier, Natal	27.88	708.1	30.10	764.5	72.2	22.3	17	se.			2		0					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.71	754.6	29.94	760.5	84.0	28.9	79	w.			2		3					raining	Sergt. John Robinson.
Gibraltar, Mediterranean	30.01	762 2	30.06	763.5	80.0	26.7	71	e.			3		5					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	29.70	754.4	29.90	759.4	57.1	13.9	69	ssw.			6		9					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.00	762.0	30.17	766.3	67.8	19.9	54	sw.			2		5					d. clouds	The Staff.
Guernsey	29.94	760.5	30.24	768.1	63.0	17.2	78	wsw.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.14	765.5	30.18	766.6	67.3	19.6	56	sw.	16	7.2			6					d. clouds	The Staff.
Leicester, Museum	29.86	758.4	30.12	765.0	61.6	16.4	66	sw.			1		8					d. clouds	J. C. Smith.
Malta, Mediterranean	29.83	757.7	29.91	759.7	84.0	28.9	61	n.			1		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.14	765.5	30.19	766.8	85.5	29.7	70	se.			1		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.60	751.8	30.12	765.0	59.9	15.5	85	ssw.			3		7					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.93	760.2	30.16	766.1	64.1	17.8	62	ssw.			4		6					d. clouds	The Staff.
Plymouth	30.12	765.0	30.19	766.8	66.0	18.9	71	ssw.			3		4					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.72	754.9	59.4	15.2	97						2					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.69	754.1	29.75	755.6	81.0	27.6	58	n.			2		8			blank	blank	misty	W. H. Lyne.
Sheffield	29.80	756.9	30.08	764.0	63.4	17.4	69	sw.			1		9			0.03	0.8	overcast	W. F. Cooper.
Silloth Rectory	29.93	760 2	29.96	761.0	60.2	15.7	70	w.			5		6			0.185	4.7	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.07	763.8	61.3	16.3	59	wsw.	19	8.5			7					d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	29.96	761.0	30.18	766.6	67.0	19.4	62	sw.			2		4					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.17	766.3	30.18	766.6	67	19.4	64	sw.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.98	761.5	30.01	762.2	57.4	14.1	84	sse.	22	9.8			10			blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.87	758 7	29.91	759.7	70	21.1	90	sw.	12	5.4			10 n		sw.	0.070	1.8	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.84	757.9	29.89	759.2	70	21.1	87	sw.	16	7.2		3 ck	2 ks	sw.	sw.	0.01	0.3	fair	G. A. Blair.
Father Point, Quebec*	29.79	756.7	29.82	757.4	57	13.9	93	sw.	17	7.6		8 c	2 s	w.	w.	0.02	0.5	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.40	746.7	30.22	767.6	52	11.1	93	w.	2	0.9		0	0			0.005	0.1	clear	James Stewart.
Halifax, N. S*	29.99?	761.7?	29.99?	761.7?	61	16.1	100	se.	3	1.3			fg.			0.683	17.4	foggy	A. Allison.
Kingston, Ontario*	29.65	753.1	29.97	761.2	60	15.6	81	w.	10	4.5		0	2 k		w.	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.69	754.1	29.89	759.2	67	19.4	73	w.	10	4.5		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.25	742.9	29.93	760.2	59	15.0	81	sw.	16	7.2		2 k	0	w.		0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.37	746.0	30.05	763 3	59	15.0	88	w.	3	1.3		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.42	747.3	30.06	763.5	57	13 9	80	w.	8	3.6		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.58	751.3	29.89	759.2	64	17.8	84	w.			1	0	2 s		w.	0.09	2 3	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.44	747.8	29.89	759.2	55	12.8	93	nw.	3	1.3			10 s		w.	0.01	0.3	light rain	W. H. McIntyre.
Saugeen, Ontario*	29.32	744.7	30.02	762.5	58	14.4	86	w.	10	4.5		2 k	0			0	0	clear	
St. Andrews, N. B	29.89	759.2	29.94	760.5	57	13.9	97	se.	3	1.3			fg			0.02	0.5	foggy	
Sydney, C. B*	29.88	758.9	29.94	760.5	64	17.8	97	sw.	16	7.2			10 n			0.80	20.3	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.66	753.4	30.04	763.0	58	14.4	74	w.	7	3.1		2 cs	0	w.		0.14	3.6	clear	Magnetic Observatory.
Yarmouth, N. S*	29.92	760.0	29.98	761.5	56	13.3	100	sw.	2	0.9			fg.			0.04	1.0	foggy	Lt. F. E. Wilmot, R N
Sub-series.																			
Mount Forest	28.63	727.2	30.09	764.3	52.0	11.1	93	wnw.			3	0	0			0	0	clear	Wm. Wylie.
St. Johns, Newfoundland	30.08	764.0	30.32	770.1	67	19.4	100	sw.	2	0.9		1	10 n			0	0	cloudy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.25	768.3	30.28	769.1	65.0	18.3	80	se.	3.2	1.4		0	1 k			0	0	fine	John Duthie.
Cape Town, C. G. H. Obs'y	30.16	766.1	30.20	767.1	62.2	16.8	80	sse.	25	11.2		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the last 24 hours. Inch.	Rainfall or melted snow in the last 24 hours. Mill.	Weather.	Observers.
Chinese (Sub-series).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.67	753.5	29.69	754.1	72.5	22.5	91	ese.	7.4	3.3			10			1.488	37.8	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.02	762.5	30.07	763.7	64.0	17.8	79	nw.	13	6			5						Oversergent Fischer.
Fanöe	30.08	763.9	30.10	764.4	64.4	18.0	77	w.			4		5						Overloerer Lauridsen.
Godthaab, Greenland																			S. Kleinschmidt.
Seykkisholm, Iceland	29.52	749.7	29.56	750.8	48.9	9.4	83	e.			2		8						A. O. Thorlacius.
Thorshavn	29.47	748.4	29.50	749.3	56.5	13.6	81	wsw.	9	4			4					raining	Overloerer Bergh.
Vestervig	29.94	760.5	30.03	762.8	63.7	17.6	77	sw.			6		1						Loearer Oesterbol.
French.																			
Agen, Normal School	29.58	751.2	30.24	768.0	74.1	23.4	72	nnw.			1		k		nw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.72	754.9	30.27	768.9	65.8	18.8	83	sw.			1		cn		e.	0	0		M. Nicot, Director.
Arras, Engineer School	30.05	763.6	30.32	770.0	67.8	19.9	55	?			2		n		sw.	0.413	10.5		M. Fénéon, Command't.
Avignon, Normal School	29.95	760.8	30.03	762.8	90.3	32.4	54	sw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.66	753.4	30.20	767.1	74.1	23.4	55	e.			1		6		w.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	30.00	761.9	30.26	768.5	69.3	20.7	46	w.			2		5		w.	0.169	4.3	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.21	741.9	30.06	763.4	80.6	27	60	ene.			1	0	2 k		ene.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.93	760.3	30.19	766.8	73.4	23.0	62	nw.			1		8			0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.69	754.0	30.22	767.7	71.6	22	58	n.			1		k		n.	0.012	0.3		M. Malet, Director.
Brest, Naval Observatory	30.03	762.7	30.27	768.9	67.6	19.8	65	sw.			2		2		sw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.18	766.6	30.26	768.5	69.1	20.6	50	nw.			2		5		sw.	0.55	14.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.85	758.3	30.17	766.2	75.2	24.0	60	ne.			1		2	nw.	wnw.	0.126	3.2	slightly cl'dy	M. Judot, Director.
Charleville, Normal School	29.70	754.3	30.19	766.9	75.6	24.2	49	n.			1					0.43	11.		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.84	732.4	30.15	765.8	71.6	22.0	75	ne.			1		8			0	0	clearing	M. Allnard, Director.
Cluny, Normal School	29.35	745.6	30.17	766.4	77.7	25.4	76	wsw.			2		3			0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.36	745.8	30.21	767.3	73.6	23.1	53	nnw.			1		5 kn	nnw.	nnw.	0.043	1.1	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.61	701.4	30.00	762.0	86.4	30.2	30	sw.			1	0	2 k			0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.99	736.4	30.04	763.0	93.7	34.3	23	sw.			2		0			0	0	clear	M. Kina, Director.
Grenoble, Normal School	29.33	744.9	30.05	763.3	85.6	29.8	49	nw.			1		0			0	0	clear	M. Ablard, Director.
Guéret, Normal School	28.66	727.9	30.21	767.3	68.0	20	72	ne.			1		k		ne.	0	0		M. Rivoire, Director.
Lamballe, Normal School	29.97	761.3	30.24	768.1	65.1	18.4	53	sw.			1		5		sw.	0.04	1.	cloudy	M. Olliffrault, Director.
Lescar, Normal School	29.07	753.5	30.22	767.6	69.1	20.6	68	w.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.17	766.4	30.28	769.0	66.2	19.0	84	sw.			1		8	s.	sw.	0.167	4.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.11	739.5	30.14	765.5	78.8	26.0	63	n.			1	c	5 k	wsw.		0	0	cloudy	M. André, Director.
Mans, Normal School	29.98	761.6	30.25	768.3	67.1	19.5	40	se.			1		2		ssw.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.83	757.6	30.09	764.2	80.6	27.0	46	w.			1		0			0	0		M. Stephan, Director.
Montlouis	25.08	636.9	29.92	759.9	68.9	20.5	20	w.	3.8	1.7			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.93	760.3	30.06	763.5	92.1	33.4	49	s.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.43	747.5	30.18	766.6	75.2	24.0	53	nw.			1	c	0	sw.		0.008	0.2		M. Hasse, Director
Nantes. Observatory	30.14	765.5	30.30	769.6	70.9	21.6	46	wsw.			0–1	c;ck	6 k	sw.	nne.	0.020	0.5		M. Larocque, Director.
Perpignan, Observatory	29.98	761.6	30.09	764.2	89.2	31.8	41	e.	9.4	4.2			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.56	547.6			57.4	14.1		sw.			1		1		sw.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.06	738.2	30.06	763.6	88.2	31.2	33	s.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.39	645.0			61.5	16.4	75	s.			2		8			0.012	0.3	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.20	767.1	30.23	767.9	75.2	24.0	100	nne.			1		8		s.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.93	760.3	30.15	765.7	69.3	20.7	67	nw.			1		5		n.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.04	712.2	30.11	764.7	76.6	24.8	62	w.			2		5		sw.	0	0	fair	M. Seger, Director.
Rouen, Normal School	30.21	767.4	30.26	768.6	67.6	19.8	57	w.			1		5	s.		0.693	17.6	cloudy	M. Brotier.
Saint Maur, Observatory	30.08	763.9	30.24	768.1	71.8	22.1	51	n.			1		4		w.	0.374	9.5		M. Renou, Director.
Toulouse, Observatory	29.53	750.0	30.26	768.5	72.1	22.3	70	n.			1		10		nw.	0	0	covered	M. Baillaud, Director.
Tours	30.05	763.2	30.22	767.7	75.2	24.0	46	ne.			1		2	ne.	sw.	0	0	slightly cld'y	M. de Tastes.
Versailles, Observatory	29.76	755.8	30.25	768.3	66.9	19.4	49	n.			1					0.228	5.8		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.95	760.8	30.24	768.2	69.3	20.7	50	nw.			1		6		wsw.	0.059	1.5		M. Marié Davy, Director
German.																			
Ansbach	28.74	729.9	30.12	765.0	78.4	25.8	48	sw.			2					0	0		Prof. Jnedt.
Bamberg	29.30	744.1	30.16	766.0	83.5	28.6	48	calm			0	1 ck	0			0	0		Prof. Dr. Hoh.
Berlin	30.05	763.2	30.22	767.5	82.6	28.1	47	w.			3		5			0	0		Prof. Dr. Arndt.
Breslau	29.65	753.2	30.19	766.8	78.6	25.9	36	ne.			1		0			0	0		Royal University Obs'y.
Carlsruhe	29.72	754.9	30.15	765.7	78.1	25.6	04	nw.			1		1	ne.		0	0		Albert Senz.
Cassel	29.45	748.0	30.16	766.1	72.0	22.2	61	nw.			4		4	w.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.78	756.3	30.13	765.2	77.2	25.1	59	nnw.			1		1			0	0		Physical Society.
Friedrichshafen	28.74	729.9	30.12	765.1	73.4	23.0	76	ssw.			2		0			0	0		Wilhelm, Chief Tel.
Hamburg	30.09	764.2	30.18	766.6	67.5	19.7	63	wnw.			3		8			0.043	1.1	showery	E. Preller.
Kiel	30.11	764.8	30.13	765.2	67.8	19.9	57	wsw.			5		5			0.134	3.4		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.71	754.6	30.11	764.7	84.9	29.4	37	wsw.			3		4	w.		0	0		H. Leppig, Asst.
Magdeburg	29.93	760.2	30.11	764.8	79.3	26.3	50	nw.			3	0	3 k		ssw.	0	0		Dr. Assmann.
Memel	30.19	766.8	30.24	768.0	78.1	25.6	51	sw.			2		0			0	0	clear	Isserumun.
Munich	28.38	720.8	30.26	768.7	79.9	26.6	46	nw.			3		1			0	0		Dr. C. Lang.
Neufahrwasser	30.13	765.4	30.15	765.8	81.7	27.6	41	sse.			1		3			0	0		A. Lottes.
Neustadt, Palatinate	29.60	751.9	30.13	765.4	78.4	25.8	58	e.			2		7	w.		0.039	1.0		Dicknether.
Stuttgart	29.18	741.1	30.02	762.5	83.3	28.5	53	sw.			1		3	w.		0.016	0.4		Prof. Dr. Schoder.
Wustrow	30.15	765.8	30.17	766.4	66.6	19.2	73	wnw.			5	0	3 k			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.41	746.9			86.7	30.4		ne.			1.0		5			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.44	747.9	29.49	749.1	83.7	28.7	75	wsw.	24.0	10.7			10			0	0	overcast	
Deesa	28.92	734.6	29.39	746.4	83.0	28.3	73	sw.	9.0	4.0			10	wsw.		0	0	overcast	
Bombay	29.59	751.6	29.93	752.6	78.9	26.1	95	w.	28.0	12.5			10		w.	0.68	17.3	overcast	
Poona, Yarrowda	27.76	705.2	29.62	752.5	72.7	22.6	87	w.	23.0	10.3			10		w.	1.00	25.4	drizzling	
Trichinopoly	29.49	749.1	29.77	756.1	87.8	31.0	46	nw.	7.0	3.1			10			0	0	overcast	
Bellary	28.22	716.9	29.69	754.2	77.0	25	72	nw.	22.3	10.0			10	s.		0	0	gloomy	
Belgaum	27.17	690.1	29.73	755.1	68.5	20.3	94	wsw.	15.0	6.7			10		sw.	2.66	67.6	showery	
Lahore	28.65	727.8	29.37	745.9	92.1	33.4	53	e.	3.9	1.7			6			0	0	d. clouds	
Roorkee	28.51	724.1	29.38	746.1	90.2	32.3	67	calm	0.8	0.4			5			0	0		
Agra	28.82	731.9	29.36	745.9	87.8	31.0	71	e.	3.8	1.7			2		e.	0.29	7.4	d. clouds	
Nagpur	28.40	721.4	29.44	747.7	76.7	24.8	89	w.	3.4	1.5			10		w.	0.71	18.0	overcast	
Jubbulpore	28.03	711.9	29.38	746.1	75.0	23.9	95	w.	6.1	2.7			10			1.78	45.2	drizzling	
Lucknow	29.00	736.7	29.37	746.1	82.2	27.9	77	calm	3.1	1.4			10	wsw.		0.61	15.5	raining	
Allahabad	28.99	736.4	29.30	744.1	83.7	28.7	87	ene.	5.2	2.3			10		e.	0.42	10.7	overcast	
Patna	29.21	742.0	29.40	746.7	82.2	27.9	87	e.	11.0	4.9			8	e.	ne.	0.20	5.1	d. clouds	
Hazaribagh	27.39	695.7	29.36	745.7	80.8	27.1	77	sse.	13.4	6.0			10		e.	0.20	5.1	showery	
Cuttack	29.35	745.6	29.43	747.8	83.8	28.8	83	s.	3.7	1.6			10			0.91	23.1	d. clouds	
Calcutta, Alipore	29.37	745.1	29.40	746.6	81.5	27.5	91	sse.	5.0	2.2			9		sse.	0.41	10.4	d. clouds	
Dhubri	29.34	745.1	29.45	748.0	85.2	29.6	79	nne.	11.6	5.2			7			0	0	d. clouds	
Chittagong	29.43	747.4	29.52	749.7	80.7	27.1	86	ese.	8.5	3.8			8			0	0	d. clouds	
Sibsagar	29.15	740.4	29.48	748.8	84.4	29.1	81	ne.	2.1	0.9			10	w.	w.	0.45	11.4	d. clouds	
Jeypore	28.09	713.6	29.54	750.2	74.7	23.7	95	nnw.	3.6	1.6			10		n.	1.56	39.6	overcast	
Zanzibar, Africa	30.09	764.3			80.9	27.2	59	s.	8.0	3.6			6		s.	0	0	d. clouds	
Italian.																			
Udine	29.66	753.3	30.05	763.2	84.9	29.4	41	sw.	1.3	0.6			0			0	0		Prof. Giovanni Clodig.
Milan	29.56	750.8	30.06	763.4	86.5	30.3	42	sw.	5.6	2.5			0			0	0		Prof. Schiaparelli.
Padua	30.04	763.0	30.15	765.7	85.3	29.6	41	wnw.	4.9	2.2			1	nw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.19	741.4	30.06	763.4	85.5	29.7	38	sw.	2.5	1.1			0			0	0		Prof. P. F. Denza.
Genoa	29.89	759.1	30.07	763.8	83.1	28.4	53	calm	0	0			0			0	0		Prof. G. M. Garibaldi.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Mondovi	28.22	716.9	30.06	763.4	81.5	27.5	47	ne.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	30.00	761.9	30.04	763.1	79.7	26.5	62	n.	9.8	4.4			0			0	0		Prof. Luigi Guidi.
Florence	29.77	756.1	30.01	762.3	89.1	31.7	29	n.			2		0			0	0		Prof. Costantino Pitter.
Leghorn	29.87	758.6	29.95	760.7	81.1	27.3	52	nw.	3.8	1.7			0			0	0		Prof. P. Monte.
Rome	29.78	756.4	29.95	760.7	89.4	31.9	23	wsw.	8.7	3.9			0			0	0		Prof. P. S. Ferrari.
Lecce	29.63	752.6	29.87	758.7	81.3	27.4	39	wnw.	23.7	10.6			0			0	0		Prof. C. de Giorgi.
Cosenza	29.07	738.4	29.92	760.0	84.6	29.2	72	sw.	3.8	1.7			3	w.		0	0		Prof. D. Conti.
Cagliari	29.79	756.6	29.97	761.3	81.5	27.5	56	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.74	755.3	29.98	761.4	81.7	27.6	33	ne	6.3	2.8			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.88	758.9	29.92	760.0	80.8	27.1	51	se.	4.3	1.9			1	w.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.42	747.2	29.91	759.7	86.5	30.3	93	ne.	1.8	0.8			0			0	0		Prof. T. Brioschi.
Stelvio	22.50	571.4			59.4	15.2	32	nw.			1		0			0	0	clear.	Prof. P. F. Denza.
Valdobbia	22.53	572.3			62.1	16.7	62	e.			2		3			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.82	757.4	29.83	757.7	60.8	16.0	95	ese.	9.0	4.0			10			0	0	covered	
Hiroshima, I. M. Obs'y					73.4	23.0	96	nne.	2.9	1.3			10ks;ok			0.101	2.6	covered	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.58	751.3	29.75	755.6	74.4	23.6	95	w.	0.7	0.3			10 s			1.027	26.1	cloudy	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.50	749.2	29.69	754.2	74.4	23.6	95	ssw.	1.5	0.7			10 s			6.380	162.0	overcast	S. Takehayashi.
Nemuro	29.86	758.4	29.92	759.9	55.0	12.8	93	ssw.	12.0	5.4		0	2			0	0	clear	
Niigata	29.72	754.9	29.75	755.6	73.9	23.3	91	ese.	1.1	0.5			10 ck			0.220	5.6	covered	M. Morita.
Nobiru	29.82	757.3	29.83	757.7	69.1	20.6	92	sse.	11.0	4.9			10 s			0.005	0.1	covered	H. Midzushina.
Osaka	29.71	754.6	29.72	754.9	75.5	24.2	86	se.	2.6	1.2			10 n			0.728	18.5	raining	
Sapporo					61.0	16.1	91	ne.	11.4	5.1			0			0	0	clear	
Tokei Obs'y, Yeddo	29.72	754.9	29.79	756.6	76.8	24.9	89	s.	11.7	5.2			10 s			0	0	cloudy	The Staff.
Wakayama	29.71	754.6	29.76	755.9	74.6	23.7	96	nw.	3.2	1.4			10			3.750	95.3	raining	Y. Kuwamura.
MAURITIUS																			
Mauritius Observatory	30.00	762.0	30.19	766.8	72.3	22.4	69	e.	14.0	6.3		4ck;cs	6k;ks;n	sw.	ese.	0	0	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.76	603.5	29.98	761.5	58.5	14.7	71	se.	4.0	1.8		2 c	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.37	619.2	30.03	762.7	59.4	15.2	80	wsw.			1	6 c	1 k	sw.		0	0	cloudy	Prof. M. Leal.
Mazatlan	29.70	754.3	29.95	760.8	80.5	26.9	89	se.	1.6	0.8			9 n		se.	0	0	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.18	588.8	30.23	767.8	53.8	12.1	82	nw.	0.4	0.2			10 n		w.	0.028	0.7	covered	The Staff.
Morelia	24.24	615.6	30.30	769.5	59.9	15.5	65	se.			2	3	3	s.	s.	0.170	4.3	½ cloudy	M. Tena, M. D
Orizaba																0	0		Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.04	610.7	30.04	763.0	61.2	16.2	73	calm	0	0		0	0			0	0	fine	M. V. de Leon, M. E
Puebla, Catholic Institute	23.44	595.4	30.23	767.9	50.0	10.0	80	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.30	617.3	30.27	768.9	63.1	17.3	58	sse.				2	7	w.	e.	0.007?	1.7?	cloudy	G. Barroeta, M. D.
Zacatecas	22.02	574.6	30.20?	767.8?	60.4	15.8	75	n.	7.6	3.4		0	0			0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.24	768.1	30.24	768.1	64.8	18.2		w.			4					0.421	10.7		
Groningen	30.11	764.7	30.16	766.1	67.6	19.8		w.			3					0.472	12.0		
Helder	30.18	766.5	30.18	766.5	63.0	17.2		sw.			4					0	0		
Hellevoetsluis	30.22	767.7	30.22	767.7	67.3	19.6	69	wsw.			2					0.197	5.0		
Utrecht	30.17	766.3	30.22	767.5	71.4	21.9	58	wsw.			2		5			0.339	8.6	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.76	755.9	29.82	757.5	60.4	15.8	64	sse.	20	9			9			0.425	10.8	raining	
Brono	29.77	756.2	29.81	757.2	64.6	18.1	54	ssw.	9	4			2			0.142	3.6		
Christiania	29.79	756.6	29.93	760.3	57.0	13.9	88	ssw.	9	4			10			0.579	14.7	raining	
Gjæsvær	29.59	751.5	29.61	752.1	48.4	9.1		w.			6		10					foggy	
Lodingen	29.70	754.3	29.74	755.5	57.0	13.9	82	sw.			6		9			0.059	1.5		
PORTUGUESE.																			
Angra, Azores					70.7	21.5	80	ese.	4.9	2.2			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.10	739.1	30.05	763.2	87.4	30.8	32	sw.	9.8	4.4			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.15	765.9	30.24	768.1	73.8	23.2	73	sw.	6.3	2.8			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29 85	758.3	30.21	767.3	71.2	21.8	47	nnw.	25.5	11.4			0			0	0		The Staff.
Ponta Delgada, Azores	30.38	771.7	30.45	773.5	70.5	21.4	82	ese.	8.7	3.9			3	n.		0.142	3.6		
Saint Paul de Loando	29.89	759.1	30.09	764.3	69.1	20.6	85	nw.	0.7	0.3			1	sse.		0	0		
Serra da Estrella	25.49	647.5	30.08	763.9	66.2	19.0	55	wnw.	8.7	3.9			0			0	0		
RUSSIAN.																			
Akmolinski	28.30	718.7	29.32	744.8	64.2	17.9	52	ne.	27	12		0	5 k			0 315	8.0	light clouds	Major K. Lasarew.
Archangel	29.83	757.6	29.85	758.1	75.4	24.1	54	w.	18	8		2 cs	0			0	0		Capt. Sseliwerstow.
Astrakhan	30.09	764.2	30.00	762.1	83.8	28.8	24	nnw.	4	2		0	0			0	0		Capt. Wisganow.
Barnaul	28.95	735.4	29.41	747.0	84.9	29.4	46	ne.	9	4			5			0	0		Meteorological Obs'y.
Dorpat	29.96	760.9	30.19	766.8	79.5	26.4	52	wnw.	9	4		0	1 k			0	0		Observatory.
Ekaterinburg	28.91	731.2	29.84	757.8	67 1	19.5	42	n.	9	4		8 c;ck	0			0.016	0.4		Meteorological Obs'y.
Irkutsk	28.33	719.5	29.88	759.0	77.9	25.5	57	nne.	2	1		0	0			0	0		
Kasan	29.72	754.8	29.97	761.2	85.8	29.9	38	wsw.	11	5		0	3 k			0	0		Observatory.
Kertch	29.78	756.4	29.80	755.9	83.7	28.7	49	ene.	45	20		0	0			0	0		Lagorio & Sastyrex.
Kieff	29.45	748.1	30.05	763.2	86.2	30.1	40	e.	4	2		0	0			0	0		Observatory.
Lugan	29.81	757.2	30.00	762.1	89.1	31.7	26	ene.	18	8			0			0	0		Meteorological Obs'y
Moscow	29.60	751.7	30.03	762.8	86.9	30.5	46	sw.	4	2			0						Meteorological Obs'y.
Nikolaiev	29.88	758.9	29.95	760.7	93.2	34.0	32	ene.	31	14		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.54	750.2	29.68	753.8	82.9	28.3	61	sw.	4	2		0	2 ks			0	0		Physical Observatory
St. Petersburg	30.14	765.5	30.15	765.9	73.2	22.9	63	nw.	13	6		0	1 k			0	0		Central Physical Obs'y
Semipalatinsk	28.73	729.7	29.33	744.9	87.1	30.6	48	ne.	4	2			9			0	0		Major Lasarew.
Tashkend, Laboratory	28.07	712.9	29.54	750.4	79.3	26.3	44	se.	4	2			10			0	0	heavy cl'ds.	Teich, A. M.
Tiflis	28.50	723.8	29.82	757.3	93.4	34.1	28	se.	7	3		0	2 k			0	0		Physical Observatory
Vladivostock	29.72	754.9	29.79	756.6	58.3	14.6	97	se.	7	3		0	5 k						
Warsaw	29.74	755.4	30.14	765.6	82.9	28.3	55	ne.	4	2			9 ks						Astronomical Obs'y
Wilna	29.79	756.6	30.19	766.7	79.9	26.6	53	ene.	2	1			1			0	0	light clouds	Berg, Assistant.
Yeniseisk	29.33	744.9	29.60	751.8	76.1	24.5	73	calm	0	0			0			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.96	761.0	30.06	763.6	77.5	25.3	72	se.	8.9	4.0			0						Antonio Rave, Director.
Bilbao, Met. Obs'y	30.19	766.8	30.25	768.3	69.3	20.7	82	calm	1.3	0.6			10			0.004	0.1	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.24	692.0	30.15	765.8	68.4	20.2	65	n.	11.9	5.3			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.89	708.5	29.97	761.1	93.9	34.4	28	sw.	5.4	2.4		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director.
Santiago, Met. Obs'y	29.32	744.8	30.21	767.4	65.3	18.5	66	n.	15.0	6.7			4			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I																			Benito Vines, S. J.
Manilla, Philippine Islands	29.74	755.5	29.80	756.9	80.6	27.0	78	w.	12.1	5.4		2 c	7 kn	ese.	w.	0.157	4.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.02	762.4	30.11	764.8	82.2	27.9	45	nw.	8.2	3.7		0	6		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.99	761.7	30.08	764.0	82.0	27.8	74	calm	0	0		2 k	3 k	se.	se.	0.059	1.5	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.65	753.1	29.78	756.4	78.8	26.0	88	nnw.	1.2	0.5		0	7 ks		ne.	0.02	0.5	overcast	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.79	756.6	29.83	757.6	63.3	17.4	70	sw.			6		0			0	0		
Umea	29.87	758.8	29.93	760.1	69.1	20.6	59	sw.			7		5			0	0		
Hernosand	29.81	757.2	29.86	758.5	63.3	17.4	67	s.			4		10			0	0		
Stockholm	29.81	757.2	29.99	761.7	68.4	20.2	65	s.			6		10			0	0		
Wisby	29.95	760.6	30.00	762.1	78.4	25.8	46	sw.			4		0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Sub-series.																			
Upsala	29.89	759.3	29.98	761.5	70.9	21.6	51	s.	11.2	5.0			8	s.	sw.	0.173	4.4		S. G. Fineman.
SWISS.																			
Geneva	28.74	730.0	30.10	764.5	78.1	25.6	51	nne.			1					0	0	clear	The Observatory
SCOTTISH.																			
Monach Lt			29.70	754.4	55	12.8	94	wsw.			0.6	5	5	w.		0.1	3.	showery	J. Youngclause.
North Unst			29.60	751.8				sw.			6								
TURKISH.																			
Constantinople			29.80	756.8	77.4	25.2	71	n.	12	5.5			10		ne.	0	0		The Observatory.
Valona			30.00	761.9	82.9	28.3		nw.			2		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.77	756.2	85.8	29.9	58	w.			2	0	4 k		w.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.90	759.4	29.98	761.5	75	23.9	60	nw.	2	0.9		0	4 k		nw.	0.16	4.1	fair	J. O. Barnes.
Alpena, Michigan	29.37	746.0	30.01	762.2	55	12.8	80	w.	10	4.5		2 k	2 ks	nw.	nw.	inap.	inap.	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.13	638.3	29.87	758.7	59	15.0	58	e.	2	0.9		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.32	693.9	30.05	763.3	56	13.3	64	ne.	3	1.3		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.97	735.8	30.12	765.0	74.0	23.3	82	s.	5	2.2		7 c	0			0	0	fair	H. Hall.
Atlantic City, New Jersey	29.99	761.7	30.00	762.0	77	25.0	76	sw.	4	1.8		3 c	0	calm		0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.96	761.0	30.15	765.8	74.0	23.3	82	w.	2	0.9		4 ck	0	sw.		inap.	inap.	fair	John Healy.
Baltimore, Maryland	30.01	762.2	30.06	763.5	74	23.3	76	nw.	6	2.7		7 cs	0	w.		inap.	inap.	fair	Robert Seyboth.
Barnegat, New Jersey	29.97	761.2	29.99	761.7	80.0	26.7	74	w.	8	3.6		0	0			0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.60	726.4	30.14	765.5	50	10.0	93	nw.	3	1.3		2 c	3 k	calm	calm	0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.32	693.9	30.03	762.7	62	16.7	62	sw.	2	0.9		1 cs	0			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	29.46	748.3	29.48	748.8	48.0	8.9		se.	8	3.6			fg.			0.18	4.6	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.44	722.4	30.16	766.1	58	14.4	77	e.	6	2.7		1 k	0	nw.		0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.95	760.7	29.98	761.5	72.2	22.3	90	w.	2	0.9		0	fg.			0	0	clear	J. T. Elker.
Boise City, Idaho	27.18	690.4	29.90	759.4	68	20.0	66	n.	4	1.8		2 k	0	w.		0	0	clear	B. E. Light.
Boston, Massachusetts	29.82	757.4	29.96	761.0	69.0	20.6	100	sw.	2	0.9			fg.			1.68	42.7	dense fog	O. B. Cole.
Brownsville, Texas	29.98	761.5	30.02	762.5	78.6	25.9	88	s.	2	0.9		2 c	3 ks	calm	s.	0	0	fair	M. McCarty.
Buffalo, New York	29.31	744.5	30.04	763.0	58.8	14.9	72	w.	7	3.1		2 ck	2 ks	sw.	sw.	0	0	fair	Wm. Finn.
Buford, Fort, Dakota	28.25	717.5	30.19	766.8	55	12.8	69	ne.	7	3.1		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.64	752.8	29.92	760.0	66.7	19.3	82	s.	5	2.2		3 ck	0	w.		0.47	11.9	clear	G. C. Schaeffer.
Cairo, Illinois	29.76	755.9	30.15	765.8	70.7	21.5	80	ne.	10	4.5		4 ck	0	n.		0	0	fair	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.25	692.1	29.84	757.9	78	25.6	43	w.			1	3 ck	4 ks	w.	w.	inap.	inap.	fair	J. T. Fitzgerald.
Cape Henry, Virginia	30.03	762.7	30.05	763.3	75	23.9	76	w.	10	4.5		0	1 s			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.98	761.5	30.01	762.2	74.0	23.3	90	w.	7	3.1		5 c	0			0	0	fair	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.11	764.8	30.13	765.3	84	28.9	67	se.	9	4.0		2 ck	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.32	744.7	30.11	764.8	61.5	16.4	71	n.	2	0.9		4 c	fg.	w.		0	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.07	763.8	30.12	765.0	82	27.8	80	sw.	7	3.1		0	0			0.72	18.3	clear	J. H. Smith.
Charlotte, N. Carolina	29.23	742.4	30.06	763.5	73.0	22.8	82	nw.	1	0.4			10 s		w.	0.23	5.8	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.33	745.0	30.13	765.3	69.0	20.6	93	ne.	3	1.3			10s; fg		e.	0.03	0.8	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.28	616.7	29.96	761.0	52.4	11.3	85	sw.	6	2.7		6 c	0	w.		0.29	7.4	fair	E. McGovern.
Chicago, Illinois	29.42	747.3	30.11	764.8	61.2	16.2	77	nw.	5	2.2		1 c	0	w.		0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.00	762.0	30.02	762.5	76	24.4	90	sw.	4	1.8		2 k	hz.	n.		0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.47	748.5	30.11	764.8	65.2	18.4	73	n.	7	3.1		0	5 ks		nw.	0.04	1.0	fair	J. F. Harrold.
Cleveland, Ohio	29.37	746.0	30.09	764.3	63	17.2	71	n.	2	0.9		2 k	3 k	nw.	w.	0	0	fair	J. B. Newlin.
Coleman City, Texas	28.28	718.3	30.04	763.0	73	22.8	76	nw.	1	0.4		10 cs	0			0	0	cloudy	L. Dorman.
Columbus, Ohio	29.25	742.9	30.08	764.0	63	17.2	68	n.	5	2.2		0	7 ks		nw.	0	0	fair	D. Cuthbertson.
Concho, Texas	28.18	715.8	30.06	763.5	72	22.2	68	e.	6	2.7		7 c	0		s.	0	0	fair	W. W. McConihe.
Custer, Fort, Montana	26.99	685.5	30.01	762.2	56	13.3	93	se.	3	1.3		0	0			0	0	clear	V. Verge.
Davenport, Iowa	29.51	749.5	30.14	765.5	60	15.6	75	n.	4	1.8		3 cs	0	calm		0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.28	642.1	29.92	760.0	72	22.2	73	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.24	717.3	29.95	760.7	58.8	14.9	58	n.	2	0.9		1 c	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.61	650.5	30.03	762.7	56.0	13.3	77	sw.	3	1.3		0	0			0	0	clear	G. W. Scott.
Decatur, Texas																			D. J. Carr.
Delaware Breakwater, Del.	30.01	762.2	30.03	762.7	73	22.8	97	w.	3	1.3		0 c	fg.	w.		0	0	fair	A. Schneider.
Denison, Texas	29.29	744.0	30.07	763.8	67.3	19.6	90	calm	0	0		10 ck	0	w.		0	0	cloudy	J. McGlone.
Denver, Colorado	24.95	633.7	29.96	761.0	59.5	15.3	73	nw.	2	0.9			9 ks			0	0	cloudy	F. M. Neal.
Des Moines, Iowa	29.32	744.7	30.20	767.1	57	13.9	80	nw.	1	0.4		0	3 s			0.02	0.5	clear	F. W. Conrad.
Detroit, Michigan	29.41	747.0	30.10	764.5	58.0	14.4	70	nw.	6	2.7		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.55	699.8	30.05	763.3	62.0	16.7	90	ne.	3	1.3		0	8 ks		n.	0.52	13.2	cloudy	W. M. Mattingly.
Dubuque, Iowa	29.46	748.3	30.15	765.8	56.8	13.8	77	nw.	1	0.4		2 ck	fg.	nw.		0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.42	747.3	30.14	765.5	59	15.0	70	nw.	28	12.5		0	7 s		nw.	0	0	fair	N. B. Conger.
Eagle Pass, Texas	29.24	742.7	30.03	762.7	74.1	23.4	82	se.	4	1.8		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.39	644.9	29.94	760.5	60	15.6	54	calm	0	0		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.89	759.2	29.95	760.7	55.0	12.8	86	calm	0	0			fg.			0.08	2.0	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.30	693.4	29.94	760.5	62	16.7	58	s.	4	1.8		5 c	c	s.		0.93	23.6	fair	W. J. Cundall.
El Paso, Texas	26.21	665.7	29.81	757.2	77	25.0	41	ne.	11	4.9		4 k	0			0.14	3.6	fair	J. F. Marshall.
Erie, Pennsylvania	29.35	745.5	30.06	763.5	64	17.8	68	calm	0	0		7 k	0	sw.		0	0	fair	Peter Wood.
Escanaba, Michigan	29.41	747.0	30.05	763.3	56	13.3	74	nw.	6	2.7		0	6 k		nw.	0	0	fair	C. Dill.
Fredericksburg, Texas	28.34	719.8	30.04	763.0	71	21.7	76	w.	1	0.4		8 cs	0			1.58	40.1	cloudy	H. S. Miles.
Galveston, Texas	30.03	762.7	30.08	764.0	78	25.6	88	se.	4	1.8			10 ks		s.	1.21	30.7	threatening	E. O'C. MacInerney.
Grand Haven, Michigan	29.44	747.8	30.10	764.5	63.5	17.5	75	e.	3	1.3		0	0			0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.32	643.1	29.89	759.2	70.4	21.3	53	calm	0	0		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.07	763.8	30.09	764.3	77.0	25.0	70	sw.	22	9.8		hz.	0			0.25	6.3	clear	R. M. Crawford.
Helena, Montana	25.95	659.1	30.01	762.2	58	14.4	64	sw.	4	1.8		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.13	739.9	30.11	764.8	75.0	23.9	69	se.	4	1.8		3 c	0			0.73	18.5	clear	J. W. Byram.
Huron, Dakota	28.87	733.3	30.19	766.8	53.2	11.8	83	ne.	4	1.8		0	0			inap.	inap.	clear	S. W. Glenn.
Indianapolis, Indiana	29.33	745.0	30.10	764.5	68	20.0	63	ne.	4	1.8		2 ck	0	nw.		0	0	clear	O. Schutze
Indianola, Texas	30.04	763.0	30.07	763.8	78.0	25.6	97	w.	4	1.8		4 ck	2 ks	ne.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.92	734.6	30.04	763.0	71	21.7	84	se.	3	1.3			10 ks		sw.	0.09	2.3	cloudy	J. P. Sherry.
Jacksonville, Florida	30.11	764.8	30.15	765.8	83	28.3	72	calm	0	0		1 cs	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.68	703.1	30.08	764.0	60	15.6	84	e.	4	1.8		0	0			0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.49	749.0	30.12	765.0	67.0	19.4	68	n.	1	0.4		0	0			0	0	clear	F. Z. Gosewisch
Key West, Florida	30.08	764.0	30.10	764.5	84.0	28.9	74	e.	6	2.7		4 c	2 k	se.	e.	0.01	0.3	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.05	763.3	30.07	763.8	74.0	23.3	90	sw.	15	6.7		hz.	1 k			3.23	82.0	clear	E. A. Beals.
Knoxville, Tennessee	29.12	739.6	30.12	765.0	64	17.8	100	e.	1	0.4			10 s			0.70	17.8	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.38	746.2	30.13	765.3	58	14.4	74	sw.	1	0.4		0	0			0	0	clear	S. C. Emery
La Mesilla, New Mexico	26.15	664.2	29.89	759.2	69.3	20.7	72	calm	0	0		4 ck	3 s	w.	w.	0.01	0.3	fair	N. D. Lane.
Leavenworth, Kansas	29.30	744.2	30.16	766.1	63	17.2	90	e.	4	1.8			10 n		e.	0.72	18.3	thund'r st'm	A. W. Browne.
Lewiston, Idaho	29.12	739.6	29.93	760.2	69.5	20.8	49	e.	2	0.9		0	sk.			c	0	clear	W. Bell.
Little Rock, Arkansas	29.78	756.4	30.10	764.5	73	22.8	97	n.	2	0.9		0	3 s			0	0	clear	W. U. Simons.
Los Angeles, California	29.63	752.6	30.02	762.5	58.0	14.4	93	ne.	3	1.3			fg.			0	0	light fog	E. F. Kubel.
Louisville, Kentucky	29.52	749.8	30.07	763.8	67	19.4	78	n.	3	1.3		0 ck; k	sk.			0	0	fair	H. C. Smyth.
Lynchburg, Virginia	29.39	746.5	30.06	763.5	70.0	21.1	77	w.	4	1.8		0	9 s		w.	0.01	0.3	cloudy	W. R. Bushby.
Macon, Fort, North Carolina	30.09	764.3	30.10	764.5	79	26.1	82	sw.	1	0.4		1 cs	0			0	0	clear	F. P. Chaffee.
Madison, Wisconsin	29.15	740.4	30.13	765.3	57	13.9	77	nw.	7	3.1		1 cs	0	nw.		0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.79	655.1			54	12.2	57	n.	9	4.0		2 cs	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.89	708.4	30.09	764.3	72	22.2	76	calm	0	0		8 k	0			0.49	12.4	cloudy	J. E. Thatcher.
Marquette, Michigan	29.35	745.5	30.06	763.5	55	12.8	80	w.	10	4.5		8 k	0	nw.		0.03	0.8	cloudy	J. Gilligan.
Memphis, Tennessee	29.76	755.9	30.10	764.5	74	23.3	82	ne.	4	1.8		0	0			0.05	1.3	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.38	746.2	30.11	764.8	57	13.9	74	w.	5	2.2		1 ck	0			0	0	clear	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.79	680.5	29.98	761.5	55	12.8	69	sw.	1	0.4		0	0			0	0	clear	J. H. Jones.
Mobile, Alabama	30.09	764.3	30.13	765.3	72.6	22.6	90	ne.	3	1.3		1 c	1 ks	sw.		2.13	54.1	clear	C. A. Read.
Montgomery, Alabama	29.89	759.2	30.11	764.8	72.3	22.4	92	s.	1	0.4		5 ck	fg.	w.		0.18	4.6	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.25	742.9	29.21	767.3	50	10.0	86	n.	3	1.3		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.09	738.9	30.09	764.3	70.0	21.1	87	se.	2	0.9		0	4 s		w.	0	0	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.90	607.0	29.97	761.2	45.5	7.5	83	nw.	25	11.2		0	8 ks		nw.	0.21	5.3	cloudy	J. G. Linsley
Nashville, Tennessee	29.57	751.1	30.09	764.3	70.0	21.1	94	calm	0	0			fg.			0.55	14.0	dense fog	L. N. Jesunofsky.
New Haven, Connecticut	29.86	758.4	29.97	761.2	73.5	23.1	83	sw.	2	0.9		2 c	3k;hz.		sw.	0	0	fair	J. H. Sherman.
New London, Connecticut	29.94	760.5	29.98	761.5	71	21.7	100	calm	0	0			fg.			0.11	2.8	dense fog	J. G. Lynch.
New Orleans, Louisiana	30.03	762.7	30.08	764.0	79.0	26.1	88	calm	0	0		2 c	sk.			inap.	inap.	clear	L. Dunne.
Newport, Rhode Island	29.94	760.5	29.99	761.7	69.3	20.7	100	sw.	2	0.9			fg			0	0	dense fog	W. McGillivray.
New York, New York	29.83	757.7	30.00	762.0	73	22.8	84	sw.	3	1.3		1 cs	0	w.		0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.03	762.7	30.06	763.5	77	25.0	82	sw.	4	1.8		1 ck	0	w.		0	0	clear	H. L. Kemp.
North Platte, Nebraska	27.28	692.9	30.08	764.0	63.6	17.6	92	e.	10	4.5			10 n			0.60	15.2	light rain	E. F. Brady.
Olympia, Washington T'y	29.98	761.5	30.02	762.5	55.0	12.8	80	calm	0	0		0	sk.		calm	0	0	clear	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.85	758.2	29.87	758.7	43.4	6.3	100	e.	6	2.7			10 s		sw.	0	0	cloudy	P. H. Ray.
Omaha, Nebraska	29.06	738.1	30.19	766.8	61.3	16.3	80	n.	4	1.8		0	9 s		w.	0.06	1.5	cloudy	A. Pollak.
Oswego, New York	29.67	753.6	29.99	761.7	66.0	18.9	73	w.	7	3.1		7 k	0	w.		0	0	fair	S. W. Beall.
Palestine, Texas	29.54	750.3	30.08	764.0	73.5	23.1	88	e.	6	2.7		4 cs	0	nw.		0	0	fair	L. M. Pindell.
Pensacola, Florida	30.09	764.3	30.12	765.0	76.1	24.5	88	n.	5	2.2		0	2 ks		w.	inap.	inap.	clear	M. McGauran,
Philadelphia, Pa	29.92	760.0	30.02	762.5	75.5	24.2	72	w.	3	1.3		5 cs	hz.	nw.		inap.	inap.	fair	T. F. Townsend.
Pike's Peak, Colorado	18.04	458.2	29.82	757.4	33	0.6	85	w.	5	2.2		0	8 ks		w.	inap.	inap.	cloudy	L. M. Dey.
Ploche, Nevada	24.17	613.9	29.90	759.4	60.2	15.7	67	nw.	6	2.7		1 k	0	calm		0.02	0.5	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.27	743.4	30.06	763.5	64.0	17.8	84	calm	0	0			10 s		sw.	0	0	cloudy	J. H. Bryce.
Poplar River, Montana	28.06	712.7						se.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.08	764.0	30.09	764.3	80.9	27.2	82	se.	7	3.1		0	0			0	0	clear	M. Hermann.
Port Huron, Michigan	29.40	746.7	30.06	763.5	55.0	12.8	77	w.	8	3.6		0	0			0	0	clear	W. O. Bailey.
Portland, Maine	29.89	759.2	29.94	760.5	70	21.1	78	n.	1	0.4		5 ck	0	nw.		0.01	0.3	fair	W. W. Eichelberger.
Portland, Oregon	29.96	761.0	30.02	762.5	60.0	15.6	81	calm	0	0		0	hz.			0	0	clear	M. L. Hearne.
Prescott, Arizona	24.90	632.4	29.89	759.2	62	16.7	75	s.	1	0.4		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass	29.94	760.5	29.97	761.2	71.0	21.7	94	s.	5	2.2			fg.			inap.	inap.	dense fog	P. T. Jenkins.
Punta Rassa, Florida	30.10	764.5	30.11	764.8	79	26.1	88	e.	8	3.6		4 c	1 k	calm	calm	0.03	0.8	fair	W. J. Evans.
Red Bluff, California	29.58	751.3	29.94	760.5	74.5	23.6	59	se.	2	0.9		0	3 s		s.	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.83	757.7	30.06	763.5	79	26.1	65	se.	5	2.2		1 ck	0	calm		0	0	clear	P. M. Wilson.
Rochester, New York	29.37	746.0	30.02	762.5	59	15.0	81	w	5	2.2		7 k	0	w.		0	0	fair	E. W. McGann.
Roseburg, Oregon	29.45	748.0	29.99	761.7	60	15.6	75	calm	0	0		0	hz.			0	0	dense haze	J. J. Nanry.
Sacramento, California	29.89	759.2	29.96	761.0	61.2	16.2	78	s.	6	2.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.57	751.1	30.15	765.8	66.0	18.9	90	n.	5	2.2		1 k	5 s	nw.	w.	0.01	0.3	fair	J. H. Webber.
St. Paul, Minnesota	29.32	744.7	30.16	766.1	55	12.8	86	w.	1	0.4		0	0			c	0	clear	P. F. Lyons
St. Vincent, Minnesota	29.37	746.0	30.21	767.3	50	10.0	93	calm	0	0		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.72	653.3	29.90	759.4	70	21.1	46	calm	0	0		9 k	0	sw.		0	0	cloudy	J. Craig.
San Antonio, Texas	29.38	746.2	30.06	763.5	72.5	22.5	90	e.	3	1.3			10 s			inap.	inap.	cloudy	T. J. Kenan.
San Diego, California	29.92	760.0	29.99	761.7	62.8	17.1	90	n.	5	2.2			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.43	747.5	30.09	764.3	64.0	17.8	63	n.	16	7.2		5 ck	0	sw		0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	29.95	760.7	29.98	761.5	76.5	24.7	76	w.	7	3.1		3 k	0	w.		0	0	clear	B. A. Blundon.
San Francisco, California	29.99	761.7	30.06	763.5	54	12.2	93	sw.	8	3.6			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.39	594.1	29.89	759.2	62	16.7	50	e.	5	2.2		10 k	0			0.02	0.5	cloudy	H. U. Jones.
Savannah, Georgia	30.04	763.0	30.13	765.3	83	28.3	70	sw.	6	2.7		0	0			inap.	inap.	clear	H. W. Ford.
Shaw, Fort, Montana	26.52	673.6	30.04	763.0	52	11.1	86	w.	5	2.2		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.85	758.2	30.08	764.0	74	23.3	97	calm	0	0		3 c	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.84	732.5	30.04	763.0	71	21.7	87	ne.	3	1.3		10 c	0	w		0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.40	619.7	29.80	758.4	63	17.2	52	w.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.97	761.2	30.03	762.7	52.5	11.4	80	s.	6	2.7			10 ks		s.	0.34	8.6	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.62	752.3	30.03	764.0	67.2	19.6	84	ne.	2	0.9		2 c	0	n.		0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.08	764.0	30.11	764.8	76	24.4	85	w.	3	1.3		0	5 k		sw.	0.07	1.8	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.99	710.9	29.97	761.2	57	13.9	83	calm	0	0		2 cs	0			0	0	clear	D. Moore.
Springfield, Illinois	29.48	748.8	30.14	765.5	65.5	18.6	74	n.	2	0.9		1 c	0	w.		0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.84	757.9	29.97	761.2	72.2	22.3	84	s.	1	0.4			10 s		s.	0	0	clear	T. S. Outram.
Springfield, Mo	28.71	729.2	30.10	764.5	66	18.9	84	e.	5	2.2		7 c	fg.			0	0	fair	J. B. Marbury.
Starkville, Miss	29.64	752.8	30.11	764.8	78	25.6	77	sw.	4	1.8		2 cs	5 s			0	0	fair	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.40	721.3	30.18	766.6	55	12.8	86	ne	2	0.9		0	0			0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.07	687.6	30.01	762.2	71.2	21.8	76	s.	16	7.2		0	0			0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.91	759.7	29.96	761.0	65.0	18.3	97	sw.	7	3.1			fg.			0.42	10.7	dense fog	G. Liebmann.
Toledo, Ohio	29.41	747.0	30.08	764.0	61	16.1	65	nw.	5	2.2		1 ck	0	nw.		0	0	clear	A. Buell.
Tucson, Arizona	27.57	700.3	29.89	759.2	74	23.3	74	ne.	5	2.2		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.59	751.0	29.95	760.7	70	21.1	48	ne.	3	1.3		9c;ck	0	s.		0	0	cloudy	J. Daly.
Uvalde, Texas																			E. C. Imlay.
Verde, Fort, Arizona					68	20.0	81	w.			1	0	0			0.43	10.9	clear	D. Brooks.
Vicksburg, Mississippi	29.88	758.9	30.12	765.0	73	22.8	90	s.	1	0.4		4c;ck	0			0	0	fair	H. P. Brisbane.
Visalia, California	29.56	750.8	29.93	760.2	67	19.4	63	s.	1	0.4		0	0			0	0	clear	W. L. Seward.
Washakie, Fort, Wyoming	24.69	627.1	30.02	762.5	50.2	10.1	77	w.	3	1.3		4 c	3 k			0	0	fair	T. M. Ambler.
Washington, D. C.	29.94	760.5	30.06	763.5	70.8	21.6	85	nw.	3	1.3		6 c	0	nw.		0.30	7.6	fair	B. M. Purssell.
West Las Animas, Colorado	26.22	666.0	29.98	761.5	65.9	18.8	70	se.	2	0.9			10 s		se.	0	0	cloudy	F. W. Brandenburg.
Williamsport, Pa	29.44	747.8	30.02	762.5	65	18.3	84	w.	1	0.4		4 ck	fg.	sw.		0	0	fair	B. F. Hough.
Wilmington, N. Carolina	30.06	763.5	30.11	764.8	75	23.9	97	w.	6	2.7		2 c	0			0.11	2.8	clear	A. T. Sherwood.
Winnemucca, Nevada	25.70	652.8	29.92	760.0	55	12.8	74	ne.	2	0.9		0	3 s		sw.	0.01	0.3	clear	J. Grover.
Yankton, Dakota	28.96	735.6	30.23	767.8	58	14.4	75	calm	0	0		4 cs	0			0	0	fair	J. H. Attfeld.
Yuma, Arizona	29.69	754.1	29.83	757.7	81.0	27.2	62	calm	0	0		0	0			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1			54.0	12.2	75	w.	1	0.4		1 cs	5 s		nw.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.08	764.0	30.09	764.3	82	27.8	95	e.				5 k	5 ks	e.		0.08	2.0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.97	761.2	30.00	762.0	76	24.4	95	calm	0	0			10 n		calm	0.70	17.8	raining	J. I. Plume.
Kingston, Jamaica, W. I.	30.04	763.0	30.05	763.3	82.3	27.9	70	calm	0	0		1 ck	0	ene.		0	0		Robert Johnston.
Magua, San Domingo, W. I					74	23.3		calm			0	0	0			0	0		S. M. Pike.
Navassa	29.91	759.7	29.99	761.7	81.5	27.5	72	e.	10	4.5		3 k	2 cs	se.	e.	0	0		F. M. Everett.
Paramaribo, S. A.	30.08	764.0	30.09	764.3	79	26.1	87	se.			2	5 k	0	e.		0	0		Dr. C. J. Herug.
Puerto Berrio, U. S. Col'mba	29.35	745.5	29.90	759.4	81	27.2	85	s.			1	2 c	2 k	calm	calm	0	0	fair	Francisco I. Cisneros.
Rivas, Nicaragua, C. A.							90	se.			4	1 cs	0	se.		0.04	1.0	fair	Earl Flint.
Santiago de Cuba, W. I	30.02	762.5	30.05	763.3	80	26.7	71	n.	2.4	1.1		3 cs	0			0	0	fair	Robert Mason.
York Factory, B. A.	30.01	762.2	30.07	763.8	63.0	17.2	83	se.	17	7.6		4 k	0 s	e.	se.			raining	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	Upper. From.	Lower. From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, S. 12° 58′ W. 7° 49′	30.21	767.3	73.5	23.1	69	se.			2		5							d. clouds.
H. M. S. Amethyst, Montevideo, Uruguay	29.82	757.4	50	10.0	78	n.			4		7	w.						d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.80	756.9	76	24.4		n.			2		3	nnw.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.23	767.8	61	16.1		ese.			2		0							blue sky.
H. M. S. Champion, Yokohama, Japan			78	25.6	90	sse.			3–5		7					3	sse.	squally.
H. M. S. Comus, N. 49° 22′, W. 174° 45′	30.10	764.5	48	8.9	92	s.			1–2		9					2	sw.	misty.
H. M. S. Diamond, S 10° 17′, E. 161° 38′	29.84	757.9	80	26.7	86	s.			1–2		7	w.						d. clouds.
H. M. S. Dido, N. 14° 50′, W. 61° 30′	30.07	763.8	77	25.0		calm			0		4	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.27	768.8	80.5	26.9	80	ssw.			1–2		6	ssw.						d. clouds.
H. M. S. Eclipse, N. 8° 15′, E. 51° 30′	29.76	755.9	78	25.6		s.			7		4					6	ssw.	d. clouds.
H. M. S. Emerald, N. 8° 40′, W. 20° 50′	30.04	763.0	79	26.1	100	ssw.			3		7	ssw.				2	s.	d. clouds.
H. M. S. Euryalus, N. 12° 00′ E 51° 00′	29.63	752.6	82	27.8	87	sse.			3		0							misty.
H. M. S. Espiegle, S. 15° 39′ E. 166° 44′	29.86	758.4	74	23.3	90	e.			3–5		9					2	se.	raining.
H. M. S. Fantome, Saint Lucia, Jamaica, W. I.	29.97	761.2	79	26.1		ne.			1		4	ne.						d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.01	762.2	58.5	14.7	93	se.			2		10							drizzling.
H. M. S. Garnet, N. 10° 50′, W. 23° 40′	30.08	764.0	78	25.6	90	nne.			1		10					2	cf'd	raining.
H. M. S. Griffon, N. 51° 42′, W. 56° 25′	30.02	762.5	49	9.4	85	e.			2		0							blue sky.
H. M. S. Iron Duke, N. 49° 03′ E. 141° 09′	29.77	756.1	56	13.3	93	sse			5–6		7	se.				4	sse.	d. clouds.
H. M. S. Kingfisher, N. 48° 10′ W. 124° 50′	30.01	762.2	53	11.7		calm			0		2							d. clouds.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.87	758.7	79.3	26.3	94	nw.			1		10					1	nw.	raining.
H. M. S. Liffey, Coquimbo, Chili	29.97	761.2	51.5	10.8		calm			0		10							dense fog.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	29.67	753.6	76.8	24.9	86	calm			0		7							misty.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.80	756.9	79	26.1	73	nw.			2		0					1	nw.	blue sky.
H. M. S. Nelson, S. 35° 16′, E. 174° 08′	29.56	750.8	54	12.2	73	w.			1									blue sky.
H. M. S. Northampton, Halifax, Nova Scotia	29.91	759.7	60.5	15.8	97	sse.			1									foggy.
H. M. S. Orontes, N. 33° 27′ E. 21° 48′	29.87	758.7	77.5	25.3	92	wnw.			2		0					3	wnw.	blue sky.
H. M. S. Pegasus, N. 2° 30′, E. 101° 38′	29.85	758.2	84.5	29.2	75	calm			0		0							blue sky.
H. M. S. Rambler, James Bay, Saint Helena Is'd	30.18	766.6	74	23.3	90	wnw.			1		4	ese.						d. clouds.
H. M. S. Rocket, Vancouver Island, B. A.	30.00	762.0	54	12.2	93	calm			0		2							d. clouds.
H. M. S. Sappho, S. 10° 00′ W. 149° 20′	29.88	758.9	79.5	26.4		e.			4–6		6	e.				4	e.	squally.
H. M. S. Swiftsure, Montevideo, Uruguay	30.03	762.7	44.5	6.9	76	n.			5–6		8	n.						squally.
H. M. S. Sylvia, Off Flores Island, Uruguay	29.89	759.2	51.5	10.8	93	nnw.			4		7							d. clouds.
H. M. S. Tenedos, N. 51° 12′ W. 56° 44′	30.00	762.0	48	8.9	92	e.			3		10							misty.
H. M. S. Triumph, S. 52° 35′ W. 75° 30′	29.76	755.9	38	3.3	71	ssw.			4–6		8	sw.				6	wsw.	snowing.
H. M. S. Woodlark, At al Bida, Arabia	29.41	747.0	102.5	39.2	32	nw.			7–8		2	wnw.						misty.
H. M. S. Zephyr, N. 34° 10′, E. 135° 00′	29.75	755.6	78	25.6	86	s.			1–2							1	sw.	raining.
Portuguese Naval.																		
Rio Lima, N. 14° 00′, W. 21° 50′	30.09	764.2	79.9	26.6	84	ne.			2		4					2	ne.	d. clouds.
Tamega, Macao, China	29.69	754.2	84.6	29.2	82	se.			3		8		s.	3 h'r	3 h'r			showery.
United States Naval.																		
Navy Yard, Pensacola, Fla.	29.96	761.0	77	25.0	91	ne.	4	1.8			2		sw.	0	0			fair.
N. Yard, Portsmouth, N. H.	29.95	760.7	71	21.7	90	calm	0	0			0			0.05	1.3			foggy.
Naval Hospital, Yokohama, Japan*	29.62	752.3	77.5	25.3	91	sw.			4		10		sw.	0	0			cloudy.
Adams, Mare Island, Cal.						sw.			2		10			0	0	sm'h		cloudy.
Alaska, Callao, Peru	29.95	760.7	58	14.4	100	calm			0		10			0	0	sm'h		cloudy.
Alert, Mare Island, Cal*	29.89	759.2	60	15.6	82	nw.			2		10			0	0	sm'h		overcast.
Alliance, Boston, Mass	29.97	761.2	70	21.1	95	wsw.			1		10			h'vy	h'vy			foggy.
Ashuelot, Yokohama, Japan*	29.69	754.1	78	25.6	95	ssw.			4		8		sw.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.41	772.4	63	17.2	100	n.	3	1.3			2			0	0	sm'h		fair.
Colorado, New York, N. Y.	29.96	761.0	75	23.9	81	sw.	4	1.8			0			0	0			clear.
Constellation, Staten Island, N. Y*	29.98	761.5	75	23.9	77	nw.			1		5		nw.					fair.
Enterprise, Provincetown, Mass*	29.97	761.2	69	20.6	100	sw.			2		10		sw.			sm'h		rain & fog.
Essex, S. 35° 40′, W. 75° 35′	30.00	762.0	55	12.8	74	ssw.			4		2		sw.			long	ssw.	clear.
Franklin, Norfolk, Va.	30.07	763.8	74	23.3	90	wsw.	6	2.7			5		w.	0	0			fair.
Galena, N. 37° 06′, E. 11° 54′	30.02	762.5	77	25.0	95	nw.			2		0					sm'h		clear.
Independence, Mare Island, Cal.	30.02	762.5	57	13.9	94	sw.			2		10			0	0			cloudy.
Iroquois, Mare Island, Cal.	30.05	763.3	60	15.6	88	sw.			2		10							cloudy.
Kearsarge, Norfolk, Va.	30.06	763.5	74	23.3	95	ssw.			1		2							fair.
Lackawana, Callao, Peru*	29.97	761.2	60	15.6	88	se.			1		10		se.					misty.
Lancaster, Alexandria, Egypt*	29.79	756.7	81	27.2	91	nnw.			3		0			0	0			light mist.
Marion, S. 34° 54′, W. 56° 13′	29.85	758.2	50	10.0	100	nnw.			4		10		nnw.	0	0	sm'h		cloudy.
Michigan, St. Clair River	30.06	763.5	60	15.6	65	nw.			2		0							clear.
Minnesota, Newport, R. I.	30.03	762.7	70	21.1	95	s.	4	1.8			10							foggy.
Monocacy, Chefoo, China	29.73	755.1	74	23.3	90	e.			3		8		w.			mod.	ese.	fair
New Hampshire, Newport, R. I.	29.96	761.0	69	20.6	100	s.			2							sm'h		dense fog.
Nipsic, N. 31° 28′, E. 28° 40′*	29.78	756.4	80	26.7	78	nw.			2		8		nw.			long	nw.	fair.
Onward, Callao, Peru†	30.12	765.0	59	15.0	94	sse.			1		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.67	753.6	76	24.4	95	wsw.			1		10		calm					raining.
Passaic, Washington, D. C.	30.09	764.3	74	23.3	95	sw.			1		5							fair.
Pensacola, Panama, Panama*	29.78	756.4	79	26.1	95	nw.	5	2.2			10		nne.	0.02	0.5	sm'h		cloudy.
Portsmouth, N. 38° 08′ E. 2° 08′*	30.07	763.8	73	22.8	90	e.			3		2		se.			sm'h		fair.
Powhatan, Pensacola, Florida	30.11	764.8	81	27.2	87	ne.			2		5		e.					fair.
Quinnebaug, Alexandria, Egypt	29.79	756.7	80	26.7	74	nnw.			2		0					sm'h		hazy.
Ranger, Mare Island, Cal.	30.06	763.5	60	15.6	76	sw.			2		10			0	0			overcast.
Richmond, Yokohama, Japan*	29.71	756.4	79	26.1	95	ssw.			4		8		sw.					cloudy.
Saratoga, N. 39° 44′ E. 1° 00′	30.09	764.3	81	27.2	78	e.			1		0			0	0	sm'h		hazy.
St. Louis, League Island, Pa.	30.20	767.1	77	25.0	69	w.			1		2		w.	0	0			clear.
Swatara, Yokohama, Japan*	29.62	752.3	79	25.1	86	ssw.			3		10		sw.			sm'h		cloudy.
Tennessee, Provincetown, Mass.	30.03	762.7	72	22.2	100	sew.	8	3.6			10			0.02	0.5			cloudy.
Vandalia, Portsmouth, N. H*	29.92	760.0	66	18.9	94	calm			0		9		wnw.					cloudy.
Wabash, Boston, Mass.	29.95	760.7	71	21.7	95	sw.	1	0.4						1.53	38.9			foggy.
Wachusetts, Fort Wrangle, Alaska†	30.37	771.4	51	10.6	100	calm			0		10		calm			sm'h		rainy.
Wyoming, Port Royal, S. C*.	30.12	765.0	76	24.4	86	wsw.	9	4.0			2		calm	0.74	18.8			clear.
Yantic, Provincetown, Mass.	29.97	761.2	69	20.6	95	sw.			1		10							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, Glasgow, Scotland*	29.89	759.2	66	18.9	.....	ssw.	.....	.....	4	.....	9	.....	ssw.	.....	.....	.....	.....	cloudy.
S. S. Nova Scotian, N. 49° 05′, W 46° 10′	29.88	758.9	53	11.7	.....	sw.	.....	.....	3	.....	fg	.....	.....	.....	.....	mod.	sw.	foggy.
S. S. Scandinavian, N. 43° 00′, W. 60° 35′ *	29.98	761.5	63	17.2	.....	s.	.....	.....	3	.....	10	.....	s.	0	0	light	s.	overcast.
S. S. Waldensian, N. 49° 15′ W. 39° 20′ *	29.63?	752.6?	52	11.1	.....	sw.	.....	.....	5	.....	10	.....	wsw.	6 h'r	6 h'r	con.	cross	squally.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, Liverpool, Eng*†	29.98	761.5	.....	.....	.....	w.	.....	.....	5	.....	5	.....	wsw.	1 h'r	1 h'r	.....	.....	showery.
S. S. Lord Gough, Philadelphia, Pa	29.94	760.5	82	27.8	.....	w.	.....	.....	2	.....	5	.....	w.	0	0	.....	.....	fair.
AMSTERDAM LINE.																		
S. S. Jason, N. 48° 02′, W. 36° 02′	30.08	763.9	58.1	14.5	.....	wnw.	.....	.....	5	.....	8 n	.....	.....	.....	.....	5	w.	raining.
ANCHOR LINE.																		
S. S. Alexandria, Genoa, Italy	30.00	762.0	84	28.9	.....	ssw.	.....	.....	1	.....	1	.....	sw.	0	0	.....	.....	clear.
S. S. Assyria, N. 40° 31′, W. 70° 57′*†	30.14	765.5	70	21.1	.....	sw.	.....	.....	3	.....	fg.	.....	.....	0	0	sm'h	.....	dense fog.
S. S. Bolivia, N. 44° 09′ W. 45° 19′ *†	30.28	769.1	67	19.4	.....	ene.	.....	.....	1	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Ethiopia, N. 46° 35′, W. 37° 05′	30.11	764.8	63.5	17.5	88	w.	.....	.....	5	.....	9	.....	w.	0	0	h'vy	w.	overcast.
S. S. Galatia, N. 17° 23′, E. 40° 20′†	29.95	760.7	90	32.2	.....	s.	.....	.....	2	.....	1	.....	.....	0	0	sm'h	.....	
S. S. India, N. 40° 10′, W. 30° 12′*	30.35	770.9	68	20.0	94	wsw.	.....	.....	2	.....	0	.....	.....	.....	.....	hv'y	nw.	clear.
S. S. Utopia, N. 40° 25′ W. 70° 37′†	30.28	769.1	74	23.3	76	s.	.....	.....	2	.....	8	.....	s.	0	0	mod.	s.	light haze.
ATLAS LINE.																		
S. S. Ailsa, N. 20° 55′, W. 73° 30′†	30.11	764.8	81	27.2	78	se.	.....	.....	5	.....	1	.....	se.	0	0	mod.	se.	clear.
S. S. Alvo, Savanilla, U. S. C	29.86	758.4	.....	.....	.....	ne.	.....	.....	5	.....	4	.....	ne.	0	0	.....	.....	hazy.
S. S. Antillas, Port au Prince, Hayti, W. I.*†	30.25	768.3	.....	.....	.....	calm	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	squally.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 12° 58′ W. 31° 21′	30.15	765.8	77	25.0	76	se.	.....	.....	5	.....	5	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Basil, N. 12° 46′, W. 30° 23′	30.10	764.5	81	27.2	78	ne.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. Baroda, S. 34° 27′, E. 18° 41′	30.24	768.1	58.5	14.7	94	s.	.....	.....	4	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. City of Agra, S. 9° 34′, W. 27° 36′	30.14	765.5	81	27.2	95	e.	.....	.....	4	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Commewyne, N. 20° 35′, W. 59° 23′	30.16	766.1	82	27.8	74	ene.	.....	.....	4	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Glencairn, N. 49° 20′, W. 16° 50′	29.88	758.9	59	15.0	100	wsw.	.....	.....	5	.....	10	.....	.....	.....	.....	.....	.....	drizzling.
S. S Gordon Castle, N. 41° 32′, W. 35° 39′	30.43	772 9	82.2	27.9	63	wsw.	.....	.....	2	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Markland, S. 37° 00′, W. 100° 31′	30.11	764.8	54.8	12.7	100	nnw.	.....	.....	5	.....	.....	.....	.....	.....	.....	4	n.	foggy.
May Hulse, N. 9° 25′, W. 24° 29′	30.06	763.5	79	26.1	82	ssw.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	.....	drizzling.
S. Oamaru, S. 34° 34′, E. 17° 25′	30.22	767.6	59.5	15.3	80	ese.	.....	.....	5-6	.....	7	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Pole Star, N. 31° 11′, W. 41° 03′	30.40	772.1	80.2	26.8	100	ene.	.....	.....	2	.....	4	.....	.....	.....	.....	.....	.....	showery.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 23° 05′, W. 107° 58′.*†	29.91	759.7	84	28.9	87	s.	.....	.....	1	.....	5	.....	.....	.....	.....	h'vy	sw.	fair.
CROMWELL LINE.																		
S. S. Hudson, N. 27° 05′, W. 86° 30′†	30.14	765.5	82	27.8	.....	se.	.....	.....	3	.....	4	.....	se.	0	0	mod.	sse.	fair.
CUNARD LINE.																		
S. S. Gallia, N. 40° 30′, W. 67° 08′	30.10	764.5	75	23.9	95	sw.	.....	.....	5	.....	10	.....	sw.	2 h'r	2 h'r	sm'h	.....	raining.
S. S. Marathon, N. 45° 11′, W. 42° 00′	30.25	768.3	68	20.0	.....	wsw.	.....	.....	3	.....	2	.....	wsw.	0	0	r'gh	w.	fine.
S. S. Scythia, N. 48° 31′, W. 32° 30′	30.03	762.7	61	16.1	88	wsw.	.....	.....	5	.....	10	.....	.....	sh'rs	sh'rs	mod.	nw.	hazy.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N 40° 28′, W. 70° 13′†	30.03	762.7	73.4	23.0	.....	wsw.	.....	.....	4	.....	ck	.....	wsw.	0	0	sm'h	w.	covered.
S. S. Ville de Marseilles, Marseilles, France*†	30.00	762.0	88	31.1	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	clear.
GUION LINE.																		
S. S. Arizona, N. 41° 37′, W. 58° 01′	30.17	766.3	75	23.9	.....	sw.	.....	.....	4	.....	6	.....	sw.	0	0	mod.	sw.	
S. S. Wisconsin, N. 48° 15′ W. 32° 50′	29.99	761.7	58	14.4	76	w.	.....	.....	4	.....	10	.....	w.	4 h'r	4 h'r	r'gh	w.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 49° 47′, W. 14° 47′†	29.93	760.2	.....	.....	.....	sw.	.....	.....	6	.....	7	.....	w.	6 h'r	6 h'r	long	wsw.	misty.
S. S. Cimbria, N. 43° 07′, W. 44° 16′	30.34	770.6	78	25.6	.....	se.	.....	.....	3	.....	7	.....	se.	0	0	sm'h	se.	cloudy.
S. S. Herder, N. 46° 27′, W. 27° 21′	30.28	769.1	65	18.3	.....	w.	.....	.....	4	.....	9	.....	wsw.	0	0	cross	wnw.	covered.
S. S. Silesia, New York, N. Y†	30.16	766.1	.....	.....	.....	nnw.	.....	.....	1-2	.....	5	.....	nw.	0	0	.....	.....	fair.
S. S. Wieland, N. 46° 34′, W. 34° 04′	30.23	767.8	64	17.8	.....	wsw.	.....	.....	5	.....	10	.....	wsw.	2½h'r	2½h'r	4	wsw.	hazy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 16° 00′ W. 36° 30′.*†	30.39	771.9	76	24.4	.....	sse.	.....	.....	4	.....	4	.....	sse.	sh'rs	sh'rs	high	s.	squally.
MALLORY LINE.																		
S. S. Colorado, New York, N. Y.†	30.00	762.0	75	23.9	.....	wsw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Brooklyn, N. Y.*†	30.05	763.3	80	26.7	78	w.	.....	.....	3	.....	3?	.....	w.	0	0	.....	.....	cloudy.?
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, Harve Roads, France †	30.31	769.9	64	17.8	94	wnw.	.....	.....	3	.....	0	.....	.....	0	0	sm'h	.....	fine.
S. S. Hermod, N. 49° 40′ W 16° 40′ *†	29.60	751.8	60.8	16.0	.....	w.	.....	.....	5	.....	10	.....	w.	4 h'r	4 h'r	long	wsw.	cloudy.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, Para River, Brazil	29.53	750.0	.....	.....	.....	ene.	.....	.....	3	.....	0	.....	.....	0	0	.....	.....	fine.
NATIONAL LINE.																		
S. S. Denmark, N. 41° 00′ W. 48° 26′	30.32	770.1	71	21.7	.....	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	.....	dense fog.
S. S. Erin, N. 41° 32′, W. 46° 01′	30.27	768.8	72	22.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	sm'h	.....	dense fog.
S. S. The Queen, N. 50° 00′, W. 2° 45′	30.18	766.6	64	17 8	.....	wsw.	.....	.....	4	.....	2	.....	calm	sh'rs	sh'rs	sm'h	.....	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 34° 07′, W. 74° 00′†	30.22	767.6	79	26.1	.....	sw.	.....	.....	6	.....	8	.....	sw.	4 h'r	4 h'r	gentle	sw.	cloudy.
S. S. Saratoga, N. 25° 08′ W. 80° 00′†	30.36	771.1	85	29.4	83	ne.	.....	.....	4	.....	0	.....	.....	0	0	.....	.....	clear.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.†	30.14	765.5	79	26.1	90	sw.	.....	.....	2	.....	2	.....	sw.	0	0	.....	.....	clear.
NORTH GERMAN LLOYD.																		
S. S. America, N. 45° 20′, W. 37° 58′*	30.28	769.1	67.1	19.5	.....	wsw.	.....	.....	6	.....	1	.....	wsw.	0	0	mod.	wsw.	clear.
S. S. Gen. Werder, N. 46° 22′. W. 36° 58′	30.20	767.1	.....	.....	.....	wsw.	.....	.....	5	.....	3	.....	wsw.	0	0	r'gh	wsw.	clear.
S. S. Habsburg, N. 44° 54′, W. 37° 40′	30.33	770.4	66.2	19.0	.....	nw.	.....	.....	4	.....	2	.....	nw.	0	0	mod.	nw.	fair.
S. S. Hohenzollern, 53° 51′, E 7° 22′.*	30.11	764.8	59.9	15.5	.....	sw.	.....	.....	3	.....	1	.....	sw.	rain	rain	sm'h	sw.	clear.
S. S. Neckar, N. 52° 05′, E. 2° 44′	30.22	767.6	68.0	20.0	.....	ssw.	.....	.....	5	.....	3	.....	ssw.	0	0	mod.	ssw.	fair.
S. S. Ohio, Bremerhaven, Germany	30.17	766.3	.....	.....	.....	w.	.....	.....	5	.....	4	.....	w.	8 h'r	8 h'r	.....	.....	fair.
S. S. Rhein, N. 49° 47′, W. 13° 40′	29.91	759 7	.....	.....	.....	wsw.	.....	.....	6	.....	10	.....	wsw.	sh'rs	sh'rs	cross	wsw.	drizzling.
S. S. Saller, N. 49° 26′, W. 14° 32′	29.97	761.2	52.7	11.5	.....	wsw.	.....	.....	6	.....	10	.....	w.	6 h'r	6 h'r	r'gh	wsw.	raining.
S. S. Strassburg, N. 40° 20′, 69° 41′	30.02	762.5	65.0	18.3	100	sw.	.....	.....	3	.....	10	.....	w.	½ h'r	½ h'r	sm'h	w.	foggy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 48° 12′, E. 176° 58′*†	29.90	759.4	48	8.9	100	se.	.....	.....	6	.....	10	.....	se.	0	0	sm'h	.....	foggy.
S. S. Belgic, San Francisco, Cal.†	30.06	763.5	56	13.3	100	s.	.....	.....	1	.....	10	.....	sw.	.....	.....	.....	.....	foggy.
S. S. Gaelic, N. 41° 35′, W. 147° 15′†	30.54	775.7	67	19.4	79	nw.	.....	.....	3	.....	2	.....	n.	.....	.....	sm'h	.....	clear.
S. S. Oceanic, N. 34° 01′, E. 137° 28′*	29.76	755.9	79	26.1	95	sse.	.....	.....	4	.....	10	.....	s.	.....	.....	sm'h	.....	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.01	762.2	.....	.....	.....	sw.	.....	.....	1	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of Columbus, N. 33° 55′, W. 77° 10′†	30.12	765.0	.....	.....	.....	wsw.	.....	.....	4	.....	2	.....	w.	1 h'r	1 h'r	mod.	wsw.	clear.
S. S. Seminole, Boston, Mass.†	29.92	760.0	76	24.4	81	ssw.	.....	.....	1	.....	8	.....	s.	8 h'r	8 h'r	.....	.....	overcast.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 45° 16′, W. 124° 10′.†	30.08	764.0	56	13.3	87	n.	.....	.....	3	.....	10	.....	n.	0	0	mod.	nnw.	hazy
S. S. Oregon, San Francisco, Cal.†	30.03	762.7	53	11.7	93	calm	.....	.....	0	.....	10	.....	.....	.....	.....	.....	.....	fair.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 23′ W. 120° 22′†	29.96	761.0	59	15.0	94	wsw.	.....	.....	3	.....	0	.....	.....	.....	.....	sm'h	.....	clear.
S. S. Idaho, Klawach, Alaska†	30.14	765.5	52	11.1	93	calm	.....	.....	0	.....	10	.....	se.	.....	.....	.....	.....	misty.
S. S. State of California, Portland, Oregon†	30.04	763.0	59	15.0	87	calm	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	clear.
S. S. Victoria, Nanaimo, Vancouver's Island†	29.90	759.5	65	18.3	90	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	.....	clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	30.32	770.1	54	12.2	87	w.	.....	.....	5	.....	0	.....	.....	0	0	.....	.....	clear.
S. S. City of New York, S. 26° 18′, W. 177° 53′†	30.02	762.5	68	20.0	60	sw.	.....	.....	2	.....	2	.....	sw.	0	0	h'vy	sw.	fair.
S. S. City of Pekin, N. 43° 53′, W. 137° 12′†	30.33	770.4	62	16.7	77	se.	.....	.....	1	.....	2	.....	e.	0	0	sm'h	.....	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.—Continued.																		
S. S. City of Rio de Janeiro, N. 9° 35′, W. 85° 16′*†	30.09	764.3	81	27.2	83	nne.			2		5		e.	0	0	long	s.	clearing.
S. S. City of Sydney, S. 28° 26′, W. 178° 11′†	29.89	759.2	64	17.8	68	wsw.			3		2		w.	0	0	mod.	sw.	fair.
S. S. City of Tokio, N. 35° 26′, E. 139° 39′†	29.87	758.7	79	26.1	91	sw.			3		5		sw.	0	0	small	sw.	fine
S. S. Colon, N. 20° 30′, W. 74° 00′†	30.13	765.3	83	28.3		e.			4		3		ne.	0	0	mod.		fair.
S. S. Colima, Acapulco, Mexico†	29.95	760.7	88	31.1	86	ne.			2		6		sw.	0	0			fair.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, N. 30° 15′, W. 67° 50′	30.05	763.3	85	29.4		se.			2		10			0	0	sm'h		overcast
S. S. Bermuda, Castries, W. I†	30.08	764.0	88	31.1		e.			1		6		ese.	sqll's	sqll's	sm'h		cloudy.
RED STAR LINE.																		
S. S. Belgenland, N. 41° 23′ W. 44° 40′†	30.64?	778.2?	78	25.6	69	wsw.			4		7			0	0	sm'h	w.	
S. S. Nederland, N. 49° 54′, W. 5° 26′			60	15.6	82	sw.			3		5		w.	2 h'r	2 h'r	mod.	sw.	fair.
S. S. Switzerland, N. 50° 33′ W. 0° 32′†	30.28	769.1				sw.			3		2		sw.	5 h'r	5 h'r	sm'h		fair.
S. S. Vaderland. N. 47° 52′, W. 22° 58′	29.96	761.0	62	16.7	88	wsw.			5		10		wsw.	6 h'r	6 h'r	high	w.	overcast.
ROTTERDAM LINE.																		
S. S. P. Caland, N. 40° 30′ W. 58° —′	30.22	767.6	78.4	25.8	88	sw.			4		6 n		sw.			sm'h	w.	
S. S. W A Scholten, New York, N. Y.	29.98	761.5	76.2	24.6	87	s.			2		6		s.	0	0			fair.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.79	756.7	68	20.0		sw.			5		9		sw.	8 h'r	8 h'r			rainy.
S. S. Indiana, N. 48° 03′. W. 35° 35′†	30.39	771.9	58	14.4		w.			4		5		w.	0	0	mod.	w.	hazy.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.32	770.1	71.6	22.0		wsw.			1		3		wsw.	1 h'r	1 h'r			clear.
WARREN LINE																		
S. S. Iowa. N. 48° 06′, W. 29° 05′*†	30.10	764.5	55	12.8		w.			9		5		w.	7 h'r	7 h'r	r'gh	w.	hazy.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 50° 40′ E. 0° 18′	30.20	767.1							3		2		w.	7 h'r	7 h'r	sm'h		fine.
WHITE STAR LINE.																		
S. S. Adriatic, New York, N. Y†	30.10	764.5	75	23.9	90	w.			2		0			0	0			clear.
S. S. Baltic, N. 46° 44′, W. 38° 47′†	30.20	767.1	60	15.6	100	wnw.			5		10		nw.	1 h'r	1 h'r	3	nw.	misty.
S. S. Britannic, N. 46° 08′, W. 40° 19′†	30.26	768.6	66	18.9	100	wsw.			4		2		w.			sli't	w.	1 clouds.
S. S Celtic, Liverpool, Eng†	29.95	760.7	65	18.3	89	wsw.			4		5		w.	0	0			fair.
S. S. Germanic, N. 41° 23′, W. 51° 45′†	30.42	772.7	70	21.1		calm			0		1		wsw.			sm'h		blue sky
S. S Republic, N. 51° 01′, W. 14° 27′†	29.95	760.7	58	14.4	94	sw.			5		10		wsw.	sh'rs	sh'rs	mod.	sw.	overcast.
WINSOR LINE.																		
S. S. Catherine Whiting, Barnegat, N. J†	30.08	764.0	76	24.4		nw.							nnw.	0	0	long	s.	
MISCELLANEOUS.																		
Schr. Ajax, N. 28° 18′, W. 89° 43′†	30.14	765.5				calm			0		4		s.	4 h'r	4 h'r	sm'h	se.	fair.
Bk. Alpha, N. 39° 20′, W. 70° 10′†	30.02	762.5	77	25.0		ssw.			3		5		s.	0	0	mod	s.	fair.
Schr Annie Lewis, Aransas Pass, Texas†	30.21	767.3	84	28.9		s.			1		0			0	0	sm'h		clear.
Bk. Anna Thormann, S. 38° 52′ E. 32° 49′	30.11	764.9	59.4	15.2	85	w.			4		2 k		w.	0	0	cross	sw.	clear.
S. S. Antonio Lopez, N. 22° 33′, W. 53° 05′	30.23	767.8	80.5	26.9	74	e.			4		2			0	0			clear.
Bk. Argonaut, N. 49° 06′ W. 31° 28′*†	30.06	763.5	58.1	14.5		w.			4		10		wnw.	4 h'r	4 h'r	long	wnw.	foggy
Schr. Asa Eldridge, Key West, Fla†	30.17	766.3				ese.			3		5		se.	0	0			fair.
S. S. Burswell, N 43° 44′, W. 27° 08′*†	30.35	770.9	77	25.0		wsw.			3		1		wsw.	0	0	mod	nnw.	clear.
Bk. Cato, N. 59° 23′, E. 4° 30′*†	30.20	767.1				ssw.			3		2		ssw.	0	0	sm'h	s.	clear.
Bk. Celestina, S. 28° 18′, W. 31° 36′*†	30.40	772.1				ssw.			3		2		s.	0	0	mod.	sw.	fine.
S. Cornelius, N. 40° 15′, W. 44° 00′*†	30.60	777.2	78	25.6		sse.			3		0			0	0	sm'h	e.	clear.
S. S. D. J. Foley, N. 22° 00′, W. 74° 21′†	30.05	763.3				e.			5		3		ese.	0	0	mod	ese.	fair.
Schr. Edith R. Seward, Ponce, Porto Rico, W. I*†	30.11	764.8	84	28.9		ne.			1		1		ene.	0	0			clear.
S. E. J. Spicer, New York, N. Y.*	30.07	763.8	77	25.0		w.			3		3		w.	0	0			
Bk. E. L. Pettingill, N. 35° 34′, W. 139° 14′†	30.40	772.1				ene.			2		5?		ne.	0	0	sm'h	w.	cloudy?
S Enoch Train, N. 41° 18′, W. 44° 20′*†	30.40	772.1				s.			2		5		s.	0	0	light	s.	fine.
Bk. Essex, S. 38° 44′ E. 24° 55′*†	30.22	767.6	65	18.3		w.			2		7		wsw.	½h'r	½h'r	long	w.	cloudy.
Bk. Franklin, N. 39° 40′, W. 67° 32′*†	30.40	772.1				ssw.			3		8			rain	rain	sm'h	ssw.	raining.
Bk Freya, N. 37° 02′ W. 74° 55′						ssw.			2		0			0	0	sm'h		clear.
S. Grecian, Hong Kong, China*†	29.70	754 4	87	30.6		sse.			2		3		s.	0	0			clear.
Bk. Hattie G. McFarland, Philakelphia, Pa*†	30.05	763.3	73	22.8		wsw.			1		2		w.	1 h'r	1 h'r			clear.
S Hedwig, N. 42° 19′, E. 10° 09′	29.98	761.6	74.5	23.6	88	nw.			5		5			0	0	short	nw.	fine.
Bk. Horace Scudder, N 29° 11′, W. 57° 38′†	30.25	768.3	80	26.7		e.			3		2		se.	¼ h'r	¼ h'r	mod.	ese.	blue sky.
S. Ivy, N. 2° 00′, W. 128° 30′†	30.19	766.8	71	21.7		se.			5		1		ese.	0	0	mod.	e.	clear.
S. Ismir, S. 37° 50′, E. 85° 50′†	30.12	765 0				wsw.			4		7		w.	2 h'r	2 h'r	r'gh	w.	fine.
Schr. James Slater, N 3° 54′, W. 49° 33′*†	30.30	769.6	85	29.4		ne.			3		1		e.	0	0	mod.	ne.	fine.
Schr. Jennie N. Huddell, Boston, Mass†	30.12	765 0	74	23.3	95	n.			3		10			rain	rain			foggy.
Bk. Johanne, N. 48° 40′, W. 33° 40′*†	30.02	762 5	59	15.0		wsw.			5		8		wsw.	6 h'r	6 h'r	long	sw.	foggy.
Schr. John L. Thomas, N. 23° 21′, W. 82° 38′*†	30.20	767.1				ene.			3		1		ese.	0	0	short	ene.	clear.
Bg. John Wesley, N. 20° 17′ W. 73° 17′†	29.93	760.2				e.			5		1		e.	¼ h'r	¼ h'r	mod.	e.	clear.
Bk Joseph A. Ropes, S. 8° 49′, W. 29° 47′*†	30.14	765.5	87	30.6	82	se.			4		4		se.	1 h'r	1 h'r	mod	se.	fair.
Bkt. Josephine, N. 31° 17′ W. 72° 46′†	30.22	767.6	83	28.3	70	s.			2		0			1 h'r	1 h'r	sm'h		clear.
Bkt. Kryolith, N 45° 38′ W. 56° 54′*†	30.06	763.5				ssw.			3		fg.					short	w.	foggy.
Light House Tender, Laurel, Off Sanibel Id, Fla†	30.16	766.1	84	28.9		se.			2		5		se.	1 h'r	1 h'r			fair.
Bk. Liberia, N. 14° 12′, W. 25° 42′*	30.02	762.5	78	25.6	86	ene.			6		5		ne.	0	0		nne.	
S. S. Madrid, N. 41° 38′, W. 50° 50′*†	30.40	773.7	69	20.6		calm			0		0			0	0	sm'h		blue sky.
S. S. Nebo, N. 41° 50′, W. 10° 18′*†	30.25	768.3				n.			4		0			0	0	rg'h	nw.	clear.
S. Orealla, N. 34° 56′, W. 48° 32′*	30.26	768.6	80	26.7		ssw.			1		1		s.	0	0	sm'h	n	clear.
S. Paramita, N. 0° 18′ W. 119° 01′†	29.82	757.4	75	23.9		se.			4		0			0	0	cross		clear.
S. S. Sunbeam, Odessa, Russia	30.09	764.3	88	31.1	55	nne.			3		0							blue sky.
S. Sovereign of the Sea, S. 7° 25′, W. 31° 35′*†	30.02	762.5	80	26.7	95	e.			4–5		5		ene.	5 h'r	5 h'r	r'gh	ese.	squally.
Bg. Teneriffe, N. 23° 35′, W. 80° 50′	30.09	764.3				sse.			2									
Bk. Truro, N. 42° 20′, W. 43° 50′*†	30.30	769.6				sw.			3		2		sw.	0	0	sm'h		clear.
U.S.F.C.S.S.Fish Hawk, Washington, D. C†	30.25	768.3	77	25.0	90	calm			0		5		calm	0.12	3.0			fair.
Schr Viola Reppard, Baltimore, Md†	29.96	761.0	80	26.7		wnw.			3		3			0	0			clear.
Bk. Wm. Wilcox, S. 34° 30′ W 58° 15′*†	29.90	759.4	59	15.0		s			4		2		n.	0	0	sm'h		fair.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 21, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	30.08	764.0	80.2	26.8	78	sw.	.....	.....	2	.....	2	.....	.....	0	0	fair	Bouvier.
Algiers	.....	.....	30.06	763.6	78.1	25.6	67	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	Nicolas.
La Galle	.....	.....	30.03	762.8	85.6	29.8	61	nnw.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Fonfrède.
Tunis	.....	.....	30.01	762.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.14	765.5	86.7	30.4	24	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	Percès.
Tebessa	.....	.....	30.10	764.5	87.4	30.8	13	nnw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Derché.
Geriville	.....	.....	.....	.....	96.4	35.8	9	nnw.	.....	.....	3	.....	3	.....	.....	inap.	inap.	pretty fair	Lonchamp.
Laghouat	.....	.....	30.10	764.5	97.2	36.2	30	nw.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Abraham.
Biskra	.....	.....	30.11	764.8	97.9	36.6	26	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.15	765.8	30.24	768.1	43.6	6.4	92	nne.	6	2.7	.....	.....	2	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.37	746.1	29.90	759.4	78.8	26.0	60	ne.	.....	.....	2	.....	6	.....	.....	0.177	4.5	thnd'r st'rm	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.20	741.7	29.93	760.1	84.9	29.4	85	ne.	8.7	3.9	.....	.....	1	.....	.....	0.248	6.3	.....	Dr. Wierzbiski.
Eperies	29.09	738.8	29.91	759.7	85.6	29.8	47	n.	.....	.....	1	cs	4 s	.....	s.	0	0	.....	Julius Mikolik.
Gratz	28.71	729.1	29.89	759.1	80.2	26.8	72	se.	.....	.....	2	.....	3	.....	.....	0	0	thunder	Andreas Rospini.
Hermannstadt	28.52	724.3	29.85	758.3	83.7	28.7	53	e.	.....	.....	4	.....	5	.....	.....	0	0	.....	Prof. A. Gottschling
Kremsmunster, Obs'y	28.61	726.8	29.87	758.8	81.7	27.6	64	e.	.....	.....	2	.....	1	.....	.....	0	0	clear	The Staff.
Lemberg	29.07	738.3	30.00	761.9	83.8	28.8	49	sw.	.....	.....	2	.....	8	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.78	756.3	29.88	759.0	87.3	30.7	42	ne.	.....	.....	3	.....	4	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szuthmar	29.43	747.6	29.87	758.8	88.0	31.1	38	e.	.....	.....	2	.....	4	.....	.....	0	0	.....	Joseph Midlinszay, S. J.
Szegedin	29.59	751.5	.....	.....	.....	.....	.....	nw.	.....	.....	2	.....	6	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.82	757.3	29.92	759.9	90.3	32.4	43	e.	.....	.....	1	.....	5	.....	.....	0	0	.....	Royal Academy.
Vienna	29.25	743.0	29.93	760.1	86.4	30.2	44	nne.	.....	.....	1	.....	1	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.74	755.4	29.84	757.9	53.7	12.1	91	sse.	15	6.7	.....	.....	10	.....	.....	0.040	1.0	overcast	W. Boswell
Armagh, Observatory	29.53	750.0	29.77	756.1	60.0	15.6	82	w.	2	0.9	.....	.....	10	.....	.....	.....	.....	gloomy	S. Call.
Bidston, Liverpool Obs'y	.....	.....	.....	.....	63.9	17.7	80	s.	14	6.3	.....	.....	9	.....	.....	.....	.....	overcast	Thomas Mackereth, ton.
Bolton, Sharples	29.33	745.0	29.86	758.4	57.6	14.2	87	s.	.....	.....	.....	.....	10	.....	.....	.....	.....	overcast	McLandsborough & Pres
Bradford, Yorkshire	29.45	748.0	29.85	758.2	60.2	15.7	79	se.	.....	.....	1	.....	10	.....	.....	0.07	1.8	overcast	Corpl. J. Surgenor, A. H. C.
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	86.0	30.0	65	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	John McLaren.
Cardington	.....	.....	29.95	760.7	70.0	21.1	63	sw.	.....	.....	3.0	.....	4	.....	.....	.....	.....	d. clouds	Lance Cpl. G. A. Pickles.
Chatham, School M. E.	29.91	759.7	30.04	763.0	67.7	19.8	60	sw.	.....	.....	2	.....	7	.....	.....	.....	.....	misty	The Staff.
Falmouth, Observatory	29.71	754.6	29.93	760.2	64.0	17.8	80	sw.	.....	.....	3	.....	7	.....	.....	.....	.....	blue sky	Pvt. Lane, A. H. C
Fort Napier, Natal	27.74	704.6	29.96	761.0	73.0	22.8	26	calm	.....	.....	0	.....	0	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Free Town, Sierra Leone	29.63	752.6	29.86	758.4	80.0	30.0	72	sw.	.....	.....	1	.....	3	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Gibraltar, Mediterranean	29.99	761.7	30.04	763.0	79.6	26.4	71	w.	.....	.....	5	.....	2	.....	.....	.....	.....	raining	Harry Urquhart, Asst.
Glasgow, Observatory	29.54	750.3	29.74	755.4	55.2	12.9	91	ne.	.....	.....	4	.....	10	.....	.....	.....	.....	d. clouds	The Staff.
Greenwich, Royal Obs'y	29.84	757.9	30.01	762.2	65.7	18.7	58	sw.	.....	.....	4	.....	7	.....	.....	.....	.....	d. clouds	A. Collenette, F. M. S.
Guernsey	29.74	755.4	30.04	763.0	64.5	18.1	80	wsw.	.....	.....	1	.....	8	.....	.....	blank	blank	d. clouds	The Staff.
Kew, Observatory	29.97	761.2	30.01	762.2	67.8	19.9	60	s.	19	8.5	.....	.....	6	.....	.....	.....	.....	d clouds	J. C. Smith.
Leicester, Museum	29.68	753.9	29.93	760.2	64.6	18.1	62	sw.	.....	.....	3	.....	8	.....	.....	.....	.....	blue sky	H. Keene, A. H. C.
Malta, Mediterranean	29.78	756.4	29.85	758.2	79.2	26.2	78	n.	.....	.....	2	.....	0	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Nassau, Bahamas	30.15	765.8	30.20	767.1	85.0	29.4	68	e.	.....	.....	1	.....	4	.....	.....	.....	.....	gloomy	Warren Middleton.
Oscott, St. Mary's College	29.41	747.0	29.92	760.0	60.7	15.9	73	s.	.....	.....	5	.....	9	.....	.....	.....	.....	squally	The Staff.
Oxford, Radcliffe Obs'y	29.75	755.6	29.98	761.5	63.1	17.3	71	ssw.	.....	.....	5	.....	8	.....	.....	.....	.....	overcast	John Merrifield.
Plymouth	29.88	758.9	29.95	760.7	60.2	15.7	94	ssw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	Rev. C. Clouston, L. L.D.
Sandwick Manse, Orkneys	.....	.....	29.77	756.1	59.3	15.2	79	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	misty	W. H. Lyne.
Scutari Cemetery, Turkey	29.64	752.8	29.70	754.4	92.0	33.3	49	ne.	.....	.....	2	.....	6	.....	.....	.....	.....	overcast	W. F. Cooper.
Sheffield	29.61	752.1	29.89	759.2	64.3	17.9	69	sw.	.....	.....	3	.....	10	.....	.....	0.01	0.3	d. clouds	Rev. F. Redford, M. A.
Silloth Rectory	29.74	755.4	29.77	756.1	65.0	18.3	72	w.	.....	.....	4	.....	3	.....	.....	0	0	overcast	Rev. S. J. Perry.
Stonyhurst, Observatory	.....	.....	29.86	758.4	58.8	14.9	79	s.	22	9.8	.....	.....	10	.....	.....	.....	.....	squally	Rev. C. H. Griffiths, F.M.S
Straitfield Turgiss	29.80	756.9	30.02	762.5	65.8	18.8	58	sw.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Truro, Royal Institution	29.92	760.0	29.93	760.2	67	19.4	74	sw.	.....	.....	6	.....	7	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
Valencia, Observatory	29.80	756.9	29.82	757.4	59.7	15.4	70	w.	7	3.1	.....	.....	6	.....	.....	.....	.....	.....	
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.91	759.7	29.95	760.7	68	20.0	89	sw.	5	2.2	.....	.....	10 n	.....	.....	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.89	759.2	29.95	760.7	66	18.9	84	s.	5	2.2	.....	3 ck	1 ks	s.	s.	0.12	3.0	fair	G. A. Blair.
Father Point, Quebec*	29.87	758.7	29.90	759.4	55	12.8	86	w.	16	7.2	.....	.....	10 s	.....	w.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.37	746.0	30.19	766.8	55	12.8	86	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	30.017	762.2?	30.01	762.2	65	18.3	90	s.	7	3.1	.....	8 k	0	sw.	.....	0	0	cloudy	A. Allison.
Kingston, Ontario*	29.75	755.6	30.08	764.0	62	16.7	75	sw.	4	1.8	.....	.....	10 ks	.....	w.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.82	757.4	30.02	762.5	62	16.7	81	w.	8	3.6	.....	0	5 ks	.....	w.	0.03	0.8	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.39	746.5	30.07	763.8	61	16.1	87	sw.	10	4.5	.....	2 k	5 ks	w.	w.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.45	748.0	30.14	765.5	59	15.0	94	nw.	3	1.3	.....	5 ck	0	sw.	.....	0	0	fair	H. Morgan.
Port Stanley, Ontario	29.49	749.0	30.13	765.3	55	12.8	86	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	M. Payne.
Quebec, Quebec*	29.67	753.6	29.99	761.7	62	16.7	84	nw.	.....	.....	5	2 k	2 s	w.	w.	0.02	0.5	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.57	751.1	30.02	762.5	58	14.4	93	nw.	3	1.3	.....	.....	10 ks	.....	nw.	0.12	3.0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.42	747.3	30.12	765.0	62	16.7	81	w.	7	3.1	.....	2 cs	0	.....	.....	inap.	inap.	clear	
St. Andrews, N. B	29.97	761.2	30.02	762.5	58	14.4	93	se.	1	0.4	.....	.....	fg.	.....	.....	0	0	foggy	
Sydney, C. B*	29.93	760.2	29.99	761.7	64	17.8	90	sw.	19	8.5	.....	2 ck	0	w.	.....	0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.75	755.6	30.13	765.3	61	16.1	70	nw.	15	6.7	.....	5 ck	2 ks	nw.	nw.	0	0	fair	Magnetic Observatory.
Yarmouth, N. S*	29.97	761.2	30.03	762.7	55	12.8	100	w.	1	0.4	.....	.....	fg.	.....	.....	0	0	foggy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.74	730.0	30.19	766.8	57.0	13.9	87	wnw.	.....	.....	3	10 k	0	w.	.....	0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	30.007	762.0?	30.24?	768.1?	68?	20.0?	100.	sw.	3	1.3	.....	10 k	10 s	.....	.....	1.33	33.8	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.48	774.2	30.51	774.9	63.0	17.2	88	w.	6.1	2.7	.....	9 c	0	.....	.....	0.020	0.5	hazy	John Duthie.
Cape Town, C. G. H. Obs'y	30.17	766.3	30.21	767.3	63.5	17.5	73	s.	29	13.0	.....	0	2	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.65	753.1	29.68	753.8	74.3	23.5	92	e.	8.9	4.0			10			0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.10	764.4	30.14	765.6	66.7	19.3	57	se.	7	3			3						Oversergent Fischer.
Fanöe	30.07	763.7	30.09	764.2	67.6	19.8	63	ssw.			2		2						Overloerer Lauridsen
Godthaab, Greenland																			S. Kleinschmidt.
Stykkisholm, Iceland	29.49	749.0	29.53	750.1	51.4	10.8	76	calm			0		8						A. O. Thorlacius.
Thorshavn	29.67	753.6	29.71	754.5	57.6	14.2	82	se.	7	3			3						Overloerer Bergh.
Vestervig	30.00	761.9	30.09	764.2	66.0	18.9	75	wsw.			2		2						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.50	749.4	30.18	766.6	70.5	21.4	69	nnw.			1		n		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.57	751.0	30.12	765.0	67.3	19.6	67	s.			1		cn		n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.97	761.1	30.20	767.0	68.7	20.4	68	?			1		ck	0		0	0		M. Fénéon, Command't.
Avignon, Normal School	29.86	758.4	29.94	760.4	84.2	29	58	nw.			1		5		n.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.52	749.9	30.06	763.6	70.7	21.5	61	e.			1		9			1.587	40.3	covered	M. Saillard, Director.
Beauvais, Normal School	29.84	757.9	30.10	764.4	73.4	23	44	e.			1		8		w.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.10	739.0	29.95	760.7	80.2	26.8	63	ssw.			1	0	5 kn		sw.	0.031	0.8	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.87	758.7	30.13	765.2	70.9	21.6	40	nw.			1		8			0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.74	755.4	30.27	768.9	75.2	24	49	w.			1		k		w.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.82	757.5	30.07	763.7	61.9	16.6	83	sw.			3		10		sw.			raining	M. de Kermaree, Dir.
Caen, Normal School	29.97	761.1	30.03	762.8	69.4	20.8	50	sw.			1		2		se.	0.24	6.	slightly cld'y	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.72	755.0	30.04	762.9	73.8	23.2	48	w.			1		2		sw.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.51	749.5	30.00	762.0	76.3	24.6	71	nw.			1					0	0		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.75	730.2	30.06	763.4	68.7	20.4	80	nne.			1		10			0.126	3.2	raining	M. Allnard, Director.
Cluny, Normal School	29.21	742.0	30.03	762.7	75.7	24.3	62	wnw.			2		9		w.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.21	741.8	30.04	763.1	70.3	21.3	63	w			1		10 kn	w.	w.	0.59	15.	light rain	Dr. Coulet, Director.
Gap, Normal School	27.53	699.3	29.93	760.3	81.3	27.4	37	e.			1	1	5		nw.	0.098	2.5		M. Jeangirard, Director.
Gréasque, du Rhone	28.80	733.0	29.91	759.6	90.5	32.5	33	sw.			2		2		sw.	0	0		M. Kinn, Director.
Grenoble, Normal School	29.21	742.0	29.94	760.5	80.2	26.8	60	wnw.			4		k			0	0		M. Ablard, Director.
Guéret, Normal School	28.55	725.1	30.09	764.2	67.6	19.8	65	w.			1		k		wsw.	0	0		M. Rivoire, Director.
Lamballe, Normal School	29.78	756.3	30.04	763.1	68.9	20.5	71	sw.			2		5		sw.	0	0	cloudy	M. Olliffrault, Director.
Lescar, Normal School	29.54	750.4	30.11	764.8	60.8	16.0	94	w.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.02	762.6	30.13	765.2	65.8	18.8	72	sw.			1		8	w.	sw.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.00	736.6	30.02	762.5	75.7	24.3	75	nnw.			2		10		w.	0.157	4.0	covered	M. André, Director.
Mans, Normal School	29.85	758.1	30.15	765.8	70.3	21.3	38	w.			1		2		w.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.70	754.4	29.96	761.0	79.3	26.3	58	wsw.			1		4		sw.	0	0		M. Stephan, Director.
Montlouis	24.94	633.4	29.78	756.4	68.9	20.5	66	e.	5.6	2.5			6			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.82	757.4	29.94	760.4	91.4	33	51	w.			2		2					thund'r st'm	M. Galzin, Director.
Nancy, Normal School	29.26	743.1	30.02	762.5	72.3	22.4	66	w.			1		kn		w.	0.063	1.6		M. Hasse, Director
Nantes, Observatory	29.99	761.8	30.15	765.9	68.9	20.5	54	wnw.			1–3	0	8 k		wnw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.89	759.1	29.99	761.7	85.6	29.8	40	nw.	15.0	6.7			8	wnw.	sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.43	544.2			53.6	12.0		sw.			1		5		sw.	0.031	0.8	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.91	734.2	29.91	759.7	84.4	29.1	51	s.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.28	642.1			52.9	11.6	100	w			4		10			0.118	3.0	rain & fog	M. Allnard, Director.
Rochefort, Naval Obs'y	30.11	764.8	30.14	765.6	77.0	25.0	100	w.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.83	757.6	30.04	762.9	71.8	22.1	55	nw.			1		5		ne.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.90	708.7	29.99	761.7	69.4	20.8	76	w.			1		5		sw.	0	0	fair	M. Seger, Director.
Rouen, Normal School	30.03	762.8	30.08	764.0	68.4	20.2	64	s.			1		8	sw.		0	0	very cloudy	M. Brotier.
Saint Maur, Observatory	29.91	759.7	30.08	763.9	72.1	22.3	45	n.			1		9		wsw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.42	747.2	30.14	765.6	72.3	22.4	62	n.			2		5		ne.	0	0	cloudy	M. Baillaud, Director.
Tours	29.90	759.5	30.08	764.0	73.0	22.8	45	ssw.			1		2		sw.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.60	751.7	30.09	764.2	73.4	23.0	40	nw.			1					0	0		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.80	756.8	30.09	764.2	69.3	20.7	51	wnw.			1		7		wsw.	0	0		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.60	726.4	29.97	761.2	79.5	26.4	50	ne.			2		2	ne.		0	0		Prof. Jnedt.
Bamberg	29.14	740.1	29.99	761.8	78.8	26.0	55	e.			1	2 cs	0			0	0		Prof. Dr. Hoh.
Berlin	30.03	762.7	30.20	767.1	64.4	18.0	76	n.			2		9			1.169	29.7		Prof. Dr. Arndt.
Breslau	29.51	749.6	30.04	763.1	84.4	29.1	46	sw.			1		7			0	0		Royal University Obs'y.
Carlsruhe	29.54	750.4	29.96	761.0	79.3	26.3	59	ene.			3		2	s.		0.043	1.1		Albert Senz.
Cassel	29.29	744.0	30.00	762.1	81.3	27.4	70	n.			4		8	nw.		0.319	8.1	thud'rstorm	Dr. H. Möhl.
Frankfort-on-the-Main	29.64	752.8	29.99	761.8	70.9	21.6	77	e.			1		5			1.803	45.8		Physical Society.
Friedrichshafen	28.57	725.6	29.93	760.2	77.0	25.0	70	sw.			1		4	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	30.02	762.6	30.12	765.0	68.2	20.1	61	sse.			3		10			0	0		E. Preller.
Kiel	30.05	763.3	30.07	763.7	67.8	19.9	58	ne.			2		6			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.66	753.4	30.07	763.8	70.9	21.6	68	e.			2		7	s.		0	0		H. Leppig, Asst.
Magdeburg	29.90	759.4	30.08	764.1	65.1	18.4	82	ne.			1		10 ks			0.984	25.0	raining	Dr. Assmann.
Memel	30.09	764.3	30.14	765.5	71.6	22.0	74	nnw.			4	0	2 k						Issermann.
Munich	28.20	716.2	30.06	763.5	79.9	26.6	42	e.			1		4			0	0		Dr. C. Lang.
Neufahrwasser	30.11	764.9	30.13	765.3	67.3	19.6	78	n.			3		5			0	0		A. Lothes.
Neustadt, Palatinate	29.47	748.5	30.00	761.9	77.5	25.3	59	ne.			1		2			0	0		Dickmether.
Stuttgart	29.03	737.4	29.87	758.8	80.6	27.0	57	n.			1		5	w.		0.008	0.2		Prof. Dr. Schoder.
Wustrow	30.11	764.8	30.13	765.4	68.7	20.4	63	ese.			2	0	8 k			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.41	747.1			84.0	28.9		ne.			1.5		7			0.177	4.5		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.43	747.5	29.48	748.7	85.8	29.9	74	w.	22.0	9.8			7		w.	0	0	d. clouds	
Deesa	28.94	735.0	29.41	747.0	70.3	24.6	95	wsw.	13.0	5.8			10	w.		1.57	39.9	overcast	
Bombay	29.58	751.3	29.62	752.2	79.1	26.2	92	wsw.	23.0	10.3			10		wsw.	0.25	6.4	overcast	
Poona, Yarrowda	27.74	704.5	29.59	751.6	74.6	23.7	79	wsw.	24.0	10.7			10		w.	0.15	3.8	overcast	
Trichinopoly	29.49	749.1	29.77	756.1	87.0	30.6	46	nw.	9.0	4.0			10			0	0	overcast	
Bellary	28.19	716.1	29.64	752.9	83.5	28.6	54	w.	23.8	10.6			9	s.		0	0	gloomy	
Belgaum	27.17	690.2	29.73	755.2	68.8	20.4	97	wsw.	16.0	7.2			9	sw.	sw.	1.68	42.7	showery	
Lahore	28.59	726.2	29.29	744.0	99.2	37.3	43	calm	1.9	0.8			4			0	0	d. clouds	
Roorkee	28.46	722.9	29.33	744.9	91.0	32.8	66	w.	2.6	1.2			4			0	0		
Agra	28.76	730.4	29.31	744.4	86.0	30.0	76	ne.	4.2	1.9			7		e.	0.20	5.1	d. clouds	
Nagpur	28.42	722.0	29.45	748.1	80.2	26.8	83	sw.	6.2	2.8			9		w.	0.27	6.9	gloomy	
Jubbulpore	28.10	713.7	29.44	747.8	77.8	25.4	82	w.	8.1	3.6			8			3.25	82.6	gloomy	
Lucknow	28.99	730.2	29.35	745.5	89.1	31.7	68	sse.	3.7	1.6			4		wnw.	0	0		
Allahabad	29.05	737.8	29.35	745.5	86.5	30.3	76	calm	5.6	2.5			8			0.07	1.8	d. clouds	
Patna	29.24	742.8	29.42	747.4	85.6	30.3	73	e.	8.0	3.6			6	e.	e.	0.03	0.8	d. clouds	
Hazaribagh	27.42	696.4	29.37	746.0	85.3	29.6	68	ene.	6.2	2.8			10			0.05	1.3	thund'r st'm	
Cuttack	29.39	746.5	29.47	748.5	84.5	29.2	69	sw.	1.5	0.7			8			0	0	d. clouds	
Calcutta, Alipore	29.39	746.4	29.41	747.0	84.2	29.0	79	sw.	2.0	0.9			8		se.	0.06	1.5	d. clouds	
Dhubri	29.33	745.0	29.44	747.9	86.0	30.0	81	calm	6.8	3.0			7			0	0	d. clouds	
Chittagong	29.38	746.3	29.47	748.6	78.9	26.1	95	s.	6.0	2.7			10			0.53	13.5	raining	
Sibsagar	29.12	739.6	29.45	747.9	86.7	30.4	80	ene.	3.8	1.7			10	w.	w.	0.04	1.0	d. clouds	
Jeypore	27.89	708.4	29.30	744.2	86.2	30.1	70	ene.	4.1	1.8			8		e.	0.36?	93.0?	d. clouds	
Zanzibar, Africa	30.04	763.0			83.1	28.4	55	sse.	7.2	3.3			2			0	0	d. clouds	
ITALIAN.																			
Udine	29.51	749.6	29.90	759.5	89.8	32.1	30	nw.	0.7	0.3			2			0	0		Prof. Giovanni Clodig.
Milan	29.44	747.8	29.93	760.3	89.6	32.0	38	s.	4.9	2.2			5	wnw.		0	0		Prof. Schiaparelli.
Padua	29.82	757.3	29.92	760.0	88.5	31.4	41	ene.	6.9	3.1			6	n.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.08	738.6	29.95	760.6	72.1	22.3	56	nw.	3.8	1.7			9			0.063	1.6		Prof. P. F. Denza.
Genoa	29.76	755.8	29.94	760.5	84.9	29.4	51	sw.	1.3	0.6			2	nw.		0	0		Prof. G. M. Garibaldi.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Mondovi	28.19	716.1	30.03	762.7	66.0	18.9	79	w.			6		9			0	0		Prof. D. C. Bruno.
Pesaro	29.87	758.7	29.92	759.9	81.9	27.7	50	nnw.	6.3	2.8			0			0	0		Prof. Luigi Guidi.
Florence	29.65	753.2	29.89	759.2	90.0	32.2	30	ne.			4		0			0	0		Prof. Costantino Pitzer
Leghorn	29.77	756.2	29.85	758.3	83.1	28.4	64	nw.	3.1	1.4			0			0	0		Prof. P. Monte.
Rome	29.69	754.0	29.85	758.3	90.3	32.4	29	sw.	13.6	6.1			1	n.		0	0		Prof. P. S. Ferrari.
Lecce	29.59	751.6	29.83	757.7	82.6	28.1	38	nnw.	15.4	6.9			1			0	0		Prof. C. de Giorgi.
Cosenza	29.01	736.9	29.86	758.4	84.9	29.4	72	se.	3.8	1.7			5	s.		0	0		Prof. D. Conti.
Cagliari	29.68	753.9	29.87	758.6	84.4	29.1	46	se.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.66	753.3	29.90	759.4	85.8	29.9	28	ne.	13.6	6.1			0			0	0		Prof. G. Ciaccalatore.
Syracuse	29.79	756.6	29.83	757.7	81.0	27.2	58	s.	6.9	3.1			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.34	745.2	29.83	757.7	86.7	30.4	42	sw.	8.7	3.9			3	ne.		0	0		Prof. T. Brioschi.
Stelvio	22.35	567.8			56.8	13.8	56	s.			2		6			0.358	9.1	misty	Prof. P. F. Denza.
Valdobbia	22.41	569.3			55.8	13.2	70	e.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.72	754.9	29.73	755.1	65.0	18.3	98	ese.	1.2	0.5			10			0.900	22.9	covered	
Hiroshima, I. M. Obs'y					78.2	25.7	87	sw.	7.5	3.4			10n;ks			0.130	3.3	light rain	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.60	751.8	29.77	756.1	79.5	26.4	88	sw.	2.7	1.2		0	4 s;ck			0.283	7.2	fair	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.58	751.4	29.77	756.3	76.6	24.8	95	sw.	2.4	1.1			10 n			1.060	26.9	raining	S. Takehayashi.
Nemuro	29.84	757.9	29.90	759.4	62.5	16.9	96	ssw.	3.0	1.3		10	0			0	0	foggy	
Niigata	29.71	754.6	29.74	755.4	73.3	22.9	94	wsw.	2.5	1.1			10 n			0.200	5.1	light rain	M. Morita.
Nobiru	29.72	754.9	29.74	755.3	70.3	21.3	96	s.	5.0	2.2			10 s			0.195	5.0	covered	H. Midzushina.
Osaka	29.73	755.1	29.74	755.4	80.0	26.7	85	wsw.	3.5	1.6		2 c	3 cs	sw.	sw.	0.915	23.2	fair	
Supporo					67.0	19.4	85	se.	12.0	5.4			9			0	0	covered	
Tokei Obs'y, Yeddo	29.71	754.6	29.79	756.6	77.3	25.2	90	s.	15.6	7.0		7 ck;c	3 ck;s	w	s.	0.050	1.3	overcast	The Staff.
Wakayama	29.73	755.1	29.78	756.4	79.9	26.6	83	ssw.	8.6	3.8		7	2	sw.	ssw.	0.036	0.9	cloudy	Y. Kuwamura.
MAURITIUS																			
Mauritius Observatory	29.93	760.2	30.12	765.0	73.0	22.8	66	e.	13.5	6.0		0	2 k		e.	0	0	clear	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.71?	603.3?	29.97	761.3	58.1	14.5	77	e.	1.1	0.5		3 c	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.06	763.5	57.2	14.0	78	n.			1	5 c	1 k	nw.		0	0	cloudy	Prof. M. Leal.
Mazatlan	29.76	756.0	30.02	762.5	79.5	26.4	89	e.	1.6	0.8			10 n		e.	0.354	9.0	threatening.	F. Quijano, C. E.
Mexico, Central Obs'y	23.19	589.1	30.25	768.2	54.5	12.5	83	nw.	0.9	0.4		4 ck	0	nw.		0.178	4.5	cloudy	The Staff.
Morelia	24.29	617.0	30.39	771.0	59.0	15.0	45	se.			1	4	2	s.	se.	0.158	4.0	covered	M. Tena, M. D.
Orizaba																0.122	3.1		Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.04	610.7	30.04	763.0	60.6	15.9	72	wsw.			1	2 c	0	e.		0	0	clear	M. V. de Leon, M. E
Puebla, Catholic Institute	23.47	596.1	30.26	768.7	52.2	11.2	76	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.32	617.8	30.28	769.0	62.0	16.7	60	ese.				1	5	w.	e.	0	0	½ cloudy	G. Barroeta, M. D.
Zacatecas	22.75?	576.2?	30.32?	770.9?	58.0	14.4	62	nne.	7.2	3.2		4 s	1 n		n.	0	0	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.09	764.2	30.09	764.2	68.7	20.4		wnw.			2					0	0		
Groningen	30.01	762.2	30.06	763.6	69.1	20.6		e.			1					0	0		
Helder	30.06	763.4	30.06	763.4	64.2	17.9		sw.			1					0	0		
Hellevoetsluis	30.08	763.9	30.08	763.9	70.5	21.4	63	w.			1					0	0		
Utrecht	30.02	762.4	30.06	763.6	73.4	23.0	46	sw.			2		5			0	0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.92	759.9	29.98	761.5	64.4	18.0	67	ssw.	29	13			7			0.276	7.0		
Brono	29.82	757.5	29.86	758.5	59.4	15.2	70	sw.	22	10			9			0	0		
Christiania	29.88	758.9	30.02	762.5	67.5	19.7	56	ssw.	7	3			4			0.091	2.3		
Gjæsvær	29.63	752.5	29.65	753.1	59.0	15.0		w.			4		10						
Lodingen	29.68	753.9	29.73	755.1	54.7	12.6	85	sw.			7		10					raining	
PORTUGUESE.																			
Angra, Azores					71.2	21.8	85	e.	8.1	3.6			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.08	738.5	30.03	762.8	83.1	28.4	20	sw.	7.4	3.3			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.18	766.5	30.20	768.7	73.0	22.8	67	sw.	6.9	3.1			2			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.85	758.2	30.20	767.1	71.2	21.8	49	n.	29.3	13.1			0			0	0		The Staff.
Ponta Delgada, Azores	30.40	772.1	30.47	773.9	72.0	22.2	84	s.	3.8	1.7			3			0.118	3.0		
Saint Paul de Loando	29.86	758.4	30.06	763.6	71.2	21.8	80	n.	0.7	0.3			0			0	0		
Serra da Estrella	25.51	647.9	30.17	766.4	58.3	14.6	55	nnw.	13.0	5.8			1			0	0		
RUSSIAN.																			
Akmolinski	28.43	722.0	29.50	749.2	45.7	7.6	98	n.	11	5			10 n			0	0		Major K. Lasarew.
Archangel	29.83	757.7	29.85	758.2	75.4	24.1	55	ssw.	9	4			9 k			0	0		Capt. Sselliwerstow.
Astrakhan	30.13	765.2	30.04	763.1	85.3	29.6	30	sse.	7	3		0	0			0	0		Capt. Wisganow.
Barnaul	28.92	734.6	29.38	746.2	83.8	28.8	42	sw.	13	6			10			0	0		Meteorological Obs'y.
Dorpat	29.84	757.9	30.07	763.7	81.9	27.7	56	nnw.	4	2		0	4 k			0	0		Observatory.
Ekaterinburg	28.77	730.8	29.68	753.9	76.8	24.9	57	n.	7	3			9			0	0		Meteorological Obs'y.
Irkutsk	28.06	712.7	29.62	752.3	69.4	20.8	67	sse.	4	2			9ks;sn			0	0		
Kasan	29.65	753.2	29.90	759.5	88.7	31.5	39	nw.	11	5		0	4 k			0	0		Observatory.
Kertch	29.73	755.1	29.75	755.6	83.7	28.7	49	ene.	45	20		6 cs	0			0	0		Lagorio & Sastyrez.
Kieff	29.37	745.9	29.95	760.8	88.9	31.6	31	e.	13	6		ck;cs	4 ks			0	0		Observatory.
Lugan	29.79	756.7	29.98	761.6	91.2	32.9	21	ese.	34	15			0			0	0		Meteorological Obs'y
Moscow	29.56	750.9	30.00	762.1	82.8	28.2	47	calm	0	0			0						Meteorological Obs'y.
Nikolaiev	29.82	757.5	29.89	759.3	91.0	32.8	34	ene.	22	10		cs	7 n			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.45	748.0	29.59	751.6	79.7	26.5	84	calm	0	0		0	6 ks			0.010	0.4	raining	Physical Observatory
St. Petersburg	30.02	762.6	30.04	763.0	71.2	21.8	69	nw	13	6		0	3 ks			0	0		Central Physical Obs'y
Semipalatinsk	28.87	733.3	29.48	748.7	80.6	27.0	56	nw.	4	2			10			0.004	0.1		Major Lasarew.
Tashkend, Laboratory	28.35	720.1	29.87	758.8	68.7	20.4	53	calm	0	0			9					light rain	Teich, A. M.
Tiflis	28.58	726.0	29.92	759.9	87.3	30.7	33	se.	9	4		0	6 k			0	0		Physical Observatory
Vladivostock	29.58	751.3	29.65	753.0	60.4	15.8	97	sse.	4	2			10 n						
Warsaw	29.60	751.9	30.00	762.1	81.1	27.3	66	nne.	9	4		0	7 k;ks						Astronomical Obs'y
Wilna	29.67	753.6	30.07	763.7	77.5	25.3	75	sse.	4	2			9			0.020	0.5	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.26	743.3	29.53	750.1	80.6	27.0	89	calm	0	0			1			0	0		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.88	758.9	29.98	761.5	81.0	27.2	56	s.	3.1	1.4			1						Antonio Rave, Director.
Bilbao, Met. Obs'y	30.16	766.0	30.22	767.5	71.2	21.8	58	nw.	1.3	0.6			10			0	0	covered	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.19	690.6	30.12	765.1	61.9	16.0	66	n.	11.2	5.0			7			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.78	705.6	29.87	758.6	88.5	31.4	22	sw.	11.9	5.3		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director
Santiago, Met. Obs'y	29.28	743.8	30.17	766.2	68.9	20.5	65	w.	7.4	3.3			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.																			Benito Vines, S. J.
Manilla, Philippine Islands	29.70	754.3	29.75	755.7	77.1	25.1	91	sw	9.9	4.4			10 n		sw.	1.886	47.9	misty	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.01	762.2	30.11	764.6	73.6	23.1	59	w.	8.6	3.9		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.01	762.3	30.10	764.6	83.1	28.4	76	e.	10.5	4.7		1 k	2 k	se.	se.	0.008	0.2	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.59	751.6	29.72	754.9	79.2	26.2	89	nw.	4.6	2.1		0	8 ks		e.	0.01	0.3	overcast	José L. Yrastorza.
SWEDISH																			
Haparanda	29.74	755.4	29.78	756.4	59.0	15.0	78	sw.			4		10			0.165	4.2		
Umea	29.82	757.3	29.87	758.6	66.6	19.2	66	sw.			6		6			0.315	8.0		
Hernosand	29.83	757.6	29.88	758.9	71.6	22.0	39	sw.			6		2			0	0		
Stockholm	29.92	759.9	30.10	764.4	69.1	20.6	45	w.			4		4			0.039	1.0		
Wisby	30.03	762.8	30.09	764.3	65.5	18.6	71	w.			2		3			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Sub-series.																			
Upsala	29.97	761.1	30.05	763.3	67.3	19.6	56	sw.	14.3	6.4	.....	.....	6	.....	sw.	0	0	.....	S. G. Fineman.
Swiss.																			
Geneva	28.59	726.1	29.93	760.3	83.3	28.5	63	sw.	.....	.....	2	.....	.....	.....	.....	0.142	3.6	cloudy	The Observatory
Scottish.																			
Monach Lt	.....	.....	29.75	755.6	59	15.0	94	s.	.....	.....	0.4	5	5	s.	.....	0.3	8.	showery	J. Youngclause.
North Unst	.....	.....	29.80	756.9	.....	.....	.....	sw.	.....	.....	4	.....	.....	.....	.....	.....	.....	.....	.....
Turkish.																			
Constantinople	.....	.....	29.74	755.5	82.9	28.3	61	n.	8	3.5	.....	.....	7	.....	n.	0	0	.....	The Observatory.
Valona	.....	.....	29.97	761.3	83.5	28.6	.....	sw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.77	756.2	84.7	29.3	54	w.	.....	.....	2	0	0	.....	.....	0	0	.....	Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	30.05	763.3	30.13	765.3	66	18.9	70	s.	4	1.8	.....	2 ck	7 s	.....	.....	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.48	748.8	30.12	765.0	57	13.9	80	w.	7	3.1	.....	4 ck	2 s	w.	.....	0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.19	639.8	29.93	760.2	61	16.1	54	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.18	690.4	29.91	759.7	71	21.7	48	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.01	736.8	30.16	766.1	73.2	22.9	82	w.	4	1.8	.....	3 c	0	.....	.....	inap.	inap.	clear	H. Hall.
Atlantic City, New Jersey	30.08	764.0	30.09	764.3	74.2	23.4	71	sw.	1	0.4	.....	8 ck	0	nw.	.....	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.00	762.0	30.19	766.8	75.0	23.9	82	calm	0	0	.....	6cs;ck	0	sw.	.....	0	0	fair	John Healy.
Baltimore, Maryland	30.10	764.5	30.15	765.8	73	22.8	66	n.	4	1.8	.....	7 ck	0	w.	.....	inap.	inap.	fair	Robert Seybolh.
Barnegat, New Jersey	30.05	763.3	30.07	763.8	72.0	22.2	82	n.	8	3.6	.....	3 k	7 k	sw.	sw.	0	0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.61	726.7	30.15	765.8	56	13.3	86	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.20	690.9	29.91	759.7	61	16.1	58	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. W. Davis.
Behring Island, Behring Sea	29.45	748.0	29.47	748.5	48.0	8.9	.....	sw.	11	4.9	.....	.....	10 s	.....	.....	0.05	1.3	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.42	721.9	30.14	765.5	58	14.4	72	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.07	763.8	30.10	764.5	68.4	20.2	73	ne.	1	0.4	.....	6 ck	0	sw.	.....	0	0	fair	J. T. Elker.
Boise City, Idaho	27.21	691.1	29.93	760.2	64	17.8	70	sw.	4	1.8	.....	.....	10 s	.....	calm	0	0	cloudy	B. E. Light.
Boston, Massachusetts	29.95	760.7	30.10	764.5	69.0	20.6	57	w.	1	0.4	.....	6 ck	0	sw.	.....	0	0	fair	O. B. Cole.
Brownsville, Texas	29.98	761.5	30.02	762.5	80.0	26.7	91	calm	0	0	.....	2 c	3 s	calm	s.	0	0	fair	M. McCarty.
Buffalo, New York	29.39	746.5	30.12	765.0	62.8	17.1	74	s.	7	3.1	.....	1 k	8 ks	sw.	sw.	inap.	inap.	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.18	715.8	30.12	765.0	59	15.0	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. H. Bell.
Burlington, Vermont	29.77	756.1	30.05	763.3	65.5	18.6	62	s.	7	3.1	.....	5 ck	3 s	w.	w.	inap.	inap.	cloudy	G. O. Schaeffer.
Cairo, Illinois	29.84	757.9	30.24	768.1	65.0	18.7	91	ne.	6	2.7	.....	.....	10 n	.....	ne.	0.23	5.8	light rain	W. H. Ray.
Campo, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. H. Glendenon
Camp Thomas, Arizona	27.27	692.6	29.86	758.4	69	20.6	84	n.	.....	.....	1	2 cs	1 k	.....	.....	0.03	0.8	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.11	764.8	30.13	765.3	73	22.8	90	s.	11	4.9	.....	.....	10 s	.....	s.	0.31	7.9	cloudy	A. K. Alderson.
Cape May, New Jersey	30.08	764.0	30.12	765.0	74.2	23.4	84	calm	0	0	.....	0	6 s	.....	nw.	0	0	fair	W. E. Smith.
Cape Mendocino	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. R. Williams.
Cedar Keys, Florida	30.15	765.8	30.17	766.3	82	27.8	80	se.	11	4.9	.....	4 c	1 ks	.....	s.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.40	746.7	30.19	766.8	62.3	16.8	67	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.11	764.8	30.16	766.1	79	26.1	82	sw.	1	0.4	.....	0	8 s	.....	sw.	0.01	0.3	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.28	743.7	30.11	764.8	75.0	23.9	76	sw.	5	2.2	.....	10 cs	0	w.	.....	0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.36	745.7	30.16	766.1	66.5	19.2	95	w.	2	0.9	.....	0	4k;fg.	.....	sw.	0.14	3.6	fair	B. L. Goulding.
Cheyenne, Wyoming	24.28	616.7	29.97	761.2	54.3	12.4	93	sw.	6	2.7	.....	.....	10 s	.....	s.	0.63	16.0	cloudy	E. McGovern.
Chicago, Illinois	29.48	748.8	30.16	766.1	60.0	15.6	75	w.	3	1.3	.....	0	0	.....	.....	inap	inap.	clear	J. Mitchell.
Chincoteague, Virginia	30.08	764.0	30.10	764.5	77	25.0	69	w.	4	1.8	.....	3 c	6 k	.....	n.	0	0	cloudy	V. P. Temple.
Cincinnati, Ohio	29.52	749.8	30.16	766.1	69.1	20.6	66	n.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	J. F. Harrold.
Cleveland, Ohio	29.44	747.8	30.16	766.1	61.7	16.5	72	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. B. Newlin.
Coleman City, Texas	28.28	718.3	30.04	763.0	72	22.2	84	w.	4	1.8	.....	.....	10 ks	.....	sw.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.32	744.7	30.15	765.8	63	17.2	100	n.	2	0.9	.....	1 cs	hz	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Texas	28.16	715.3	30.04	763.0	73	22.8	90	calm	0	0	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	W. W. McConihe.
Custer, Fort, Montana	26.90	683.2	29.92	760.0	61	16.1	78	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	V. Verge.
Davenport, Iowa	29.58	751.3	30.21	767.3	60	15.6	75	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.25	641.3	29.89	759.2	68	20.0	70	se.	3	1.3	.....	0	7 s	.....	sw.	0	0	fair	J. Williams.
Dayton, Washington T'y	28.22	716.8	29.93	760.2	64.2	17.9	62	sw.	4	1.8	.....	0	4 k	.....	.....	0	0	fair	H. Clifford.
Deadwood, Dakota	25.58	649.7	30.00	762.0	55.0	12.8	83	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	73	22.8	59	s.	3	1.3	.....	0	3 s	.....	s.	0.23	5.8	clear	D. J. Carr.
Delaware Breakwater, Del.	30.10	764.5	30.12	765.0	72	22.2	84	w.	1	0.4	.....	6 k	3 s	sw.	sw.	0	0	cloudy	A. Schneider.
Denison, Texas	29.28	743.7	30.06	763.5	72.0	22.2	90	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	J. McGlone.
Denver, Colorado	24.95	633.7	29.96	761.0	59.0	15.0	84	sw.	2	0.9	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	F. M. Neal.
Des Moines, Iowa	29.40	746.7	30.28	769.1	50	13.3	85	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.47	748.5	30.16	766.1	59.0	15.0	75	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.62	701.5	30.12	765.0	60.0	15.6	100	ne.	14	6.3	.....	.....	10 n	.....	.....	0.10	2.5	light rain	W. M. Mattingly.
Dubuque, Iowa	29.52	749.5	30.21	767.3	58.7	14.8	67	nw.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.48	748.8	30.20	767.1	63	17.2	73	w.	12	5.4	.....	0	5 s	.....	w.	0.16	4.1	fair	N. B. Conger.
Eagle Pass, Texas	29.25	742.9	30.04	763.0	75.0	23.9	82	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.40	645.1	29.94	760.5	58	14.4	58	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.93	760.2	29.99	761.7	58.0	14.4	90	calm	0	0	.....	5 k	fg	w.	.....	0	0	fair	D. C. Murphy.
Elliott, Fort, Texas	27.37	695.2	30.01	762.2	60	15.6	78	n.	20	8.9	.....	.....	10 n	.....	n.	1.63	41.4	heavy rain	W. J. Cundall.
El Paso, Texas	26.22	666.0	29.82	757.4	76	24.4	46	nw.	6	2.7	.....	2 c	0	nw.	.....	0.02	0.5	clear	J. F. Marshall.
Erie, Pennsylvania	29.43	747.5	30.14	765.5	63	17.2	73	s.	1	0.4	.....	5 k	0	sw.	.....	0	0	fair	Peter Wood.
Escanaba, Michigan	29.48	748.8	30.12	765.0	60	15.6	75	n.	1	0.4	.....	0	0	.....	.....	0.17	4.3	clear	C. Dill.
Fredericksburg, Texas	28.33	719.6	30.03	762.7	74	23.3	82	calm	0	0	.....	10 cs	0	.....	.....	0	0	cloudy	H. S. Miles.
Galveston, Texas	30.01	762.2	30.06	763.5	78.5	25.8	85	n.	5	2.2	.....	.....	10 n	.....	.....	0.30	7.6	light rain	E. O'C. MacInerney.
Grand Haven, Michigan	29.50	749.3	30.15	765.8	62.0	16.7	78	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.34	643.6	29.91	759.7	67.4	19.7	59	s.	4	1.8	.....	0	0	.....	.....	0.01	0.3	clear	Robert C. Lord.
Hatteras, North Carolina	30.14	765.5	30.16	766.1	79.0	26.1	88	sw.	16	7.2	.....	3 k	4 k	w.	sw.	0.20	5.1	fair	R. M. Crawford.
Helena, Montana	25.84	656.3	29.90	759.4	66	18.9	51	calm	0	0	.....	.....	10 k	.....	.....	0	0	cloudy	S. Wheaton.
Henrietta, Texas	29.09	738.9	30.07	763.8	77.0	25.0	85	se.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Huron, Dakota	28.92	734.6	30.24	768.1	54.1	12.3	86	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.39	746.5	30.16	766.1	60	18.9	68	nw.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	O. Schutze
Indianola, Texas	30.02	762.5	30.05	763.3	80.7	27.1	85	s.	1	0.4	.....	2 cs	2 k	ne.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.91	734.3	30.03	762.7	73	22.8	90	se.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.13	765.3	30.17	766.3	78	25.6	82	calm	0	0	.....	3 cs	0	.....	.....	0.16	4.1	clear	J. W. Smith.
Keogh, Fort, Montana	27.60	701.0	30.01	762.2	62	16.7	67	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.56	750.8	30.19	766.8	66.5	19.2	69	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch
Key West, Florida	30.07	763.8	30.09	764.3	84.0	28.9	72	e	8	3.6	.....	6 cs	2 k	.....	se.	0.26	6.6	cloudy	R. H. Paxton.
Kittyhawk, North Carolina	30.17	766.3	30.19	766.8	72.5	22.5	94	w.	8	3.5	.....	2 cs	7 n;s	.....	sw.	2.34	59.4	thund'rst'm	E. A. Beals.
Knoxville, Tennessee	29.14	740.1	30.14	765.5	68	20.0	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.46	748.3	30.21	767.3	64	17.8	68	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.16	664.5	29.90	759.4	65.5	18.6	69	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.39	746.5	30.25	768.3	58	14.4	93	calm	0	0	.....	.....	fg.	.....	.....	0.33	8.4	dense fog	A. W. Browne.
Lewiston, Idaho	29.06	738.1	29.87	758.7	76.5	24.7	45	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.83	757.7	30.14	765.5	70	21.1	90	ne.	6	2.7	.....	6 cs	0	nw.	.....	0	0	fair	W. U. Simons.
Los Angeles, California	29.63	752.6	30.02	762.5	59.2	15.1	87	sw.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.59	751.6	30.14	765.5	68	20.0	73	n.	5	2.2	.....	0	sk.	.....	.....	inap.	inap.	clear	H. C. Smyth.
Lynchburg, Virginia	29.46	748.3	30.13	765.3	71.0	21.7	82	s.	1	0.4	.....	0	9 n	.....	sw.	0.02	0.5	light rain	W. R. Bushby.
Macon, Fort, North Carolina	30.14	765.5	30.15	765.8	79	26.1	88	sw.	8	3.6	.....	4 cs	0	.....	.....	0.67	17.0	fair	F. P. Chaffee.
Madison, Wisconsin	29.20	741.7	30.18	766.6	57	13.9	86	nw.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.68	652.3	.....	.....	60	15.6	56	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.88	708.1	30.08	764.0	70	21.1	76	se.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.42	747.3	30.13	765.3	64	17.8	68	w.	5	2.2	.....	6 k	0	w.	.....	0	0	fair	J. Gilligan.
Memphis, Tennessee	29.84	757.9	30.17	766.3	71	21.7	84	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.44	747.8	30.17	766.3	57	13.9	80	w.	5	2.2	.....	0	0	.....	.....	inap.	inap.	clear	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.74	679.2	29.93	760.2	63	17.2	78	se.	2	0.9	.....	5 cs	4 s	se.	e.	0	0	cloudy	J. H. Jones.
Mobile, Alabama	30.11	764.8	30.15	765.8	72.5	22.5	97	n.	7	3.1	.....	6 cs	4 ks	.....	ne.	0.48	12.2	cloudy	C. A. Read.
Montgomery, Alabama	29.93	760.2	30.16	766.1	75.0	23.9	84	s.	1	0.4	.....	0	9 s	.....	w.	inap.	inap.	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.28	743.7	30.24	768.1	55.1	12.8	80	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.18	741.2	30.18	766.6	62.0	16.7	67	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.89	606.8	29.96	761.0	39.0	3.9	92	nw.	38	17.0	.....	.....	fg.	.....	nw.	0.06	1.5	dense fog	J. G. Linsley
Nashville, Tennessee	29.63	752.6	30.15	765.8	74.5	23.6	70	ne.	1	0.4	.....	4 ck	0	sw.	.....	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.00	762.0	30.11	764.8	65	18.3	65	n.	5	2.2	.....	.....	10 s	.....	sw.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.06	763.5	30.12	765.0	68	20.0	78	nw.	2	0.9	.....	2 k	7 s	.....	.....	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.05	763.3	30.10	764.5	78.0	25.6	88	s.	1	0.4	.....	7 c	sk.	w.	.....	0.36	9.1	fair	L. Dunne.
Newport, Rhode Island	30.06	763.5	30.12	765.0	70.3	21.3	72	n.	5	2.2	.....	2 c	6 ks	.....	sw.	0	0	cloudy	W. McGillivray.
New York, New York	29.96	761.0	30.13	765.3	70.5	21.4	57	ne.	8	3.6	.....	3 cs	4 s	w.	.....	0	0	fair	J. B. Merrill.
Norfolk, Virginia	30.10	764.5	30.13	765.3	73	22.8	90	sw.	8	3.6	.....	.....	10 s	.....	.....	0.31	7.9	cloudy	H. L. Kemp.
North Platte, Nebraska	27.38	695.4	30.18	766.6	55.6	13.1	88	se.	4	1.8	.....	0	fg.	.....	.....	0.02	0.5	dense fog	E. F. Brady.
Olympia, Washington T'y*	30.01	762.2	30.05	763.3	51.0	10.6	93	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.83	757.7	29.85	758.2	40.0	4.4	99	ese.	18	8.0	.....	1 cs	9 s	.....	s.	0	0	cloudy	P. H. Ray.
Omaha, Nebraska	29.15	740.4	30.28	769.1	60.0	15.6	84	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Oswego, New York	29.78	756.4	30.10	764.5	63.0	17.2	78	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.54	750.3	30.08	764.0	74.0	23.3	88	e	2	0.9	.....	6 cs	0	.....	.....	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.10	764.5	30.13	765.3	77.1	25.1	85	e.	6	2.7	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	M. McGauran.
Philadelphia, Pa.	30.03	762.7	30.13	765.3	71	21.7	71	nw.	6	2.7	.....	0	9ks s;hz	.....	nw.	inap.	inap.	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.04	458.2	29.82	757.4	32	0.0	85	w.	4	1.8	.....	0	2 s	.....	w.	0.17	4.3	clear	L. M. Dey.
Pioche, Nevada	24.16	613.7	29.89	759.2	60.0	15.6	54	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.36	745.7	30.16	766.1	61.0	16.1	81	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Poplar River, Montana	28.00	711.2	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.09	764.3	30.10	764.5	79.0	26.1	88	s.	1	0.4	.....	2 c	3 s	.....	s.	1.22	31.0	fair	M. Hermann.
Port Huron, Michigan	29.48	748.8	30.14	765.5	60.1	15.6	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	30.01	762.2	30.06	763.5	68	20.0	70	w.	4	1.8	.....	5 cs;c	0	w.	.....	0.01	0.3	fair	W. W. Eichelberger.
Portland, Oregon	30.02	762.5	30.10	764.5	56.0	13.3	80	nw.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.89	632.2	29.88	758.9	65	18.3	60	s.	4	1.8	.....	0	0	.....	.....	0.01	0.3	clear	J. Mc N. Wright.
Provincetown, Mass.	30.07	763.8	30.10	764.5	69.0	20.6	70	nw.	6	2.7	.....	.....	10 s	.....	nw.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.12	765.0	30.13	765.3	79.5	26.4	88	e.	6	2.7	.....	0	1 k	.....	calm	0.18	4.6	clear	W. J. Evans.
Red Bluff, California	29.58	751.3	29.94	760.5	73.5	23.1	58	s.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	J. M. Frantz.
Rio Grande City, Texas	29.82	757.4	30.05	763.3	80	26.7	79	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.46	748.3	30.11	764.8	60	15.6	81	sw.	6	2.7	.....	5 k	hz.	w.	.....	0	0	fair	E. W. McGann.
Roseburg, Oregon	29.52	749.8	30.06	763.5	56.5	13.6	65	calm	0	0	.....	2 c	hz.	sw.	.....	0	0	clear	J. J. Naury.
Sacramento, California	29.88	758.9	29.95	760.7	59.9	15.5	75	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.63	752.6	30.21	767.3	63.0	17.2	91	nw.	5	2.2	.....	0	0	.....	.....	0.11	2.8	clear	J. H. Webber.
St. Paul, Minnesota	29.38	746.2	30.22	767.6	57	13.9	80	w.	2	0.9	.....	0	hz.	.....	.....	inap.	inap.	clear	P. F. Lyons
St. Vincent, Minnesota	29.34	745.2	30.18	766.6	54	12.2	86	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.73	653.5	29.91	759.7	61	16.1	42	calm	0	0	.....	6 k	0	sw.	.....	0.06	1.5	fair	J. Craig.
San Antonio, Texas	29.37	746.0	30.05	763.3	74.5	23.6	97	calm	0	0	.....	10 c	0	.....	.....	0	0	cloudy	T. J. Kenan.
San Diego, California	29.92	760.0	29.99	761.7	63.7	17.6	88	nw.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	A. G. Dobbins.
Sandusky, Ohio	29.49	749.0	30.15	765.8	63.3	17.4	73	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.09	764.3	30.12	765.0	71.0	21.7	90	ne.	12	5.4	.....	9 k	0	ne.	.....	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.98	761.5	30.05	763.3	54	12.2	93	w.	5	2.2	.....	.....	fg.	.....	w.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.42	594.9	29.92	760.0	57	13.9	83	w.	4	1.8	.....	0	0	.....	.....	0.03	0.8	clear	H. U. Jones.
Savannah, Georgia	30.09	764.3	30.18	766.6	80	26.7	77	s.	3	1.3	.....	4 ck	0	.....	.....	0.77	19.6	fair	H. W. Ford.
Shaw, Fort, Montana	26.40	670.5	29.91	759.7	55	12.8	69	w.	3	1.3	.....	2 cs	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.86	758.4	30.09	764.3	74	23.3	97	se.	2	0.9	.....	2 c	0	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.84	732.5	30.04	763.0	71.3	21.8	90	n.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.40	619.7	29.86	758.4	62	16.7	46	n.	2	0.9	.....	3 c	0	calm	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	30.06	763.5	30.12	765.0	52	11.1	86	sw.	3	1.3	.....	.....	10 n	.....	sw.	0.32	8.1	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.63	752.6	30.09	764.3	72.5	22.5	84	ne.	4	1.8	.....	.....	10 s	.....	e.	0.28	7.1	cloudy	J. B. Campbell.
Smithville, North Carolina	30.11	764.8	30.14	765.5	79	26.1	88	sw.	9	4.0	.....	1 ck	8 ks	.....	sw.	0.25	6.3	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.93	709.4	29.91	759.7	73.5	23.1	56	w.	2	0.9	.....	10 k	0	sw.	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.55	750.6	30.21	767.3	64.9	18.3	67	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	30.00	762.0	30.13	765.3	66.6	19.2	73	s.	1	0.4	.....	8 ck	0	.....	.....	0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.78	731.0	30.17	766.3	63.5	17.5	93	e.	5	2.2	.....	.....	10 n	.....	.....	1.75	44.4	light rain	J. B. Marbury.
Starkville, Miss.	29.67	753.6	30.14	765.5	76	24.4	76	s.	5	2.2	.....	5 cs	2 s	.....	sw.	1.00	25.4	fair	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.36	720.3	30.14	765.5	61	16.1	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. Burrows
Stockton, Fort, Texas	27.06	687.3	30.00	762.0	73.0	22.8	68	se.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	30.02	762.5	30.07	763.8	67.5	19.7	78	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.48	748.8	30.15	765.8	62	16.7	60	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.56	700.0	29.88	758.9	75	23.9	76	calm	0	0	.....	8 cs	0	.....	.....	0.25	6.3	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.60	751.8	29.96	761.0	69	20.6	51	w.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	J. Daly.
Uvalde, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	68.1	20.1	61	n.	.....	.....	1	0	0	.....	.....	0.10	2.5	clear	D. Brooks.
Vicksburg, Mississippi	29.89	759.2	30.13	765.3	72	22.2	84	e.	4	1.8	.....	1 c	hz.	.....	.....	0	0	clear	H. P. Brisbane.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.63	625.6	29.96	761.0	53.2	11.8	83	s.	2	0.9	.....	.....	10 k	.....	.....	inap.	inap.	cloudy	T. M. Ambler.
Washington, D. C.	30.04	763.0	30.14	765.5	70.9	21.6	84	n.	4	1.8	.....	2 c	0	nw.	.....	0.01	0.3	clear	B. M. Purssell.
West Las Animas, Colorado	26.27	667.2	30.03	762.7	60.4	15.8	100	e.	7	3.1	.....	.....	10 n	.....	e	1.09	27.7	light rain	F. W. Brandenburg.
Williamsport, Pa.	29.57	751.1	30.15	765.8	61.8	16.6	75	w.	6	2.7	.....	2 k	6 ks	w.	w.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.09	764.3	30.14	765.5	77	25.0	97	sw.	3	1.3	.....	.....	10 s	.....	.....	1.28	32.5	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.70	652.8	29.92	760.0	53	11.7	69	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	29.01	736.8	30.28	769.1	52	11.1	80	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Attield.
Yuma, Arizona	25.68	753.9	29.82	757.4	82.2	27.9	72	calm	0	0	.....	1 ck	1 s	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6	.....	.....	53.5	11.9	79	w.	1	0.4	.....	.....	10 ns	.....	e.	0.29	7.4	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.08	764.0	30.09	764.3	82	27.8	95	ne.	.....	.....	.....	5 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.01	762.2	77	25.0	90	n.	4	1.8	.....	0	8 ks	.....	n.	1.20	30.5	cloudy	J. I. Plume.
Kingston, Jamaica, W. I.	30.04	763.0	30.05	763.3	82.2	27.9	72	calm	0	0	.....	4 c	0	ne.	.....	0	0	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	73	22.8	.....	calm	.....	.....	0	0	2 ck	.....	e.	0	0	.....	S. M. Pike.
Navassa	29.90	759.4	29.98	761.5	81	27.2	76	e.	9.5	4.2	.....	5 k	7 cs	se.	e.	0	0	cloudy	F. M. Everett.
Paramaribo, S. A.	30.08	764.0	30.08	764.0	78	25.6	86	se.	.....	.....	2	4 c	0	e.	.....	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.32	744.7	29.87	758.7	80	26.7	85	calm	.....	.....	0	.....	fg.	.....	.....	inap.	inap.	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	94	ne.	.....	.....	2	0	8 ks	.....	ne.	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.05	763.3	30.08	764.0	78	25.6	72	calm	0	0	.....	2 cs	0	.....	.....	0.24	6.1	clear	Robert Mason.
York Factory, B. A.	29.99	761.7	30.05	763.3	60.0	15.6	88	ne.	13	5.8	.....	3 k	2 s	n.	ne.	0.10	2.5	fair	Fortesque & Wood.

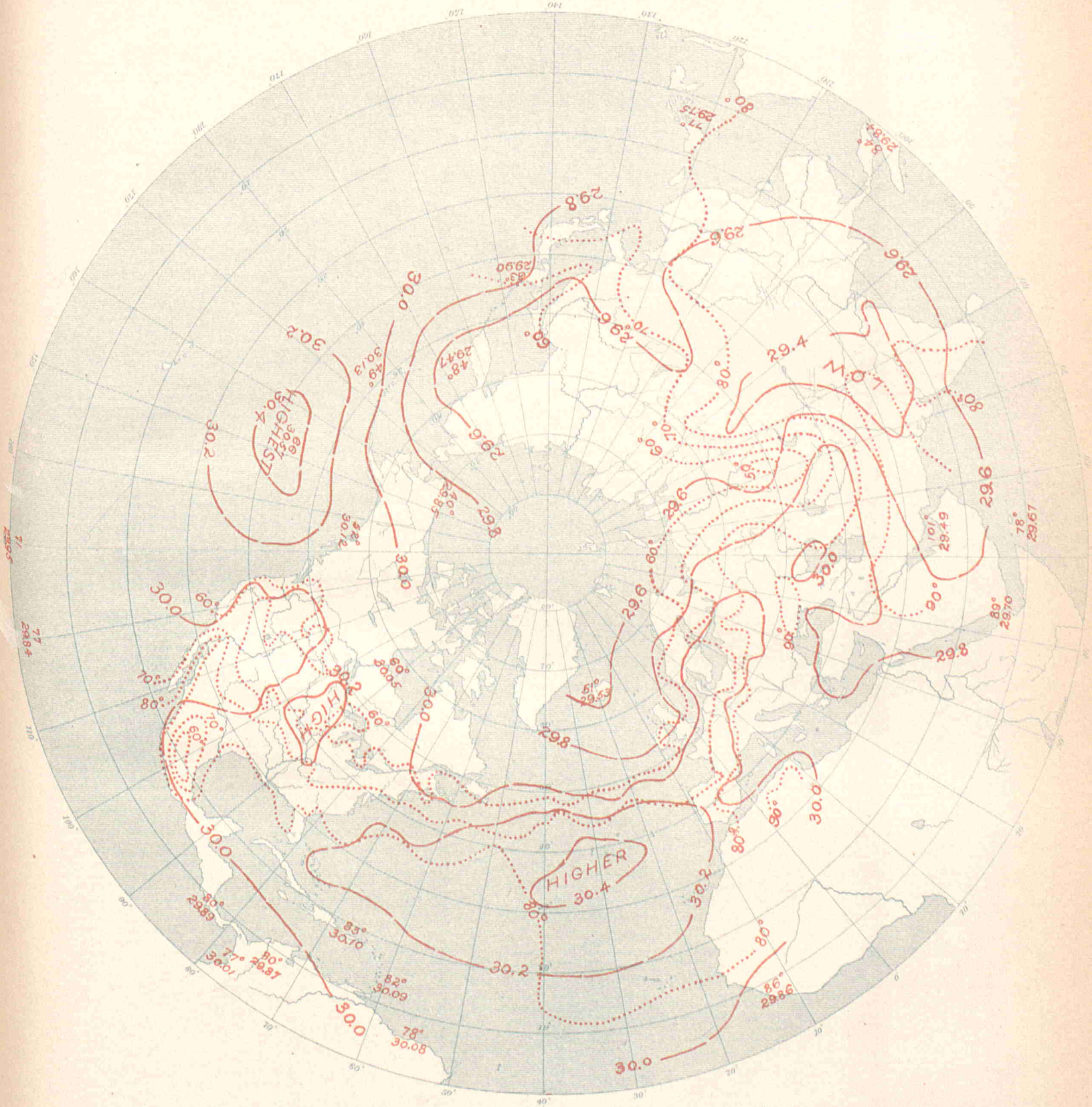
* Observation thirty minutes late.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, S. 11° 48′ W. 8° 50′	30.20	767.1	73	22.8	63	e.			3–4		6							d. clouds.
H. M. S. Amethyst, Montevideo, Uruguay	29.98	761.5	51	10.6	86	se.			3		9							d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.74	755.4	80	26.7		nnw.			2		4	nnw.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.20	767.1	61	16.1		ese.			5		0							blue sky.
H. M. S. Champion, Yokohama, Japan			77	25.0	95	s.			3–5		6					2	s.	d. clouds.
H. M. S. Comus, N. 49° 20′, W. 170° 30′	30.16	766.1	48	8.9	92	se.			2–3		10					1	sw.	misty.
H. M. S. Diamond, S. 10° 17′, E. 161° 38′	29.82	757.4	80	26.7	86	calm			0		2	w.						d. clouds.
H. M. S. Dido, N. 14′, 50° W. 61° 30′	30.07	763.8	80	26.7		sw.			1		6	e.						showery.
H. M. Dock-Yard, Bermuda, W. I.	30.27	768.8	81.5	27.5	80	ssw.			1–2		4	ssw.						d. clouds.
H. M. S. Druid, N. 33° 43′, W. 62° 52′	30.36	771.1	81.5	27.5	85	sse.			1		3					1	sse.	d. clouds.
H. M. S. Eclipse, N. 11° 36′, E. 52° 10′	29.67	753.6	78	25.6		ssw.			6–7		5					7	ssw.	squally.
H. M. S. Emerald, N. 11° 05′ W. 21° 40′	29.99	761.7	79	26.1	100	sw.			3–4		10	wsw.				2	ssw.	d. clouds.
H. M. S. Euryalus, N. 12° 30′, E. 47° 30′	29.57	751.1	88	31.1	69	wsw.			5		0					3	wsw.	misty.
H. M. S. Espiegle, S. 15° 37′ E. 167° 05′	29.77	756.1	76	24.4	90	ne.			2		10					1	ne.	showery.
H. M. S. Fantome, N. 18° 30′, W. 78° 18′	30.03	762.7	82	27.8		ne.			1–2		4	ne.				1	ne.	d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.02	762.5	58.5	14.7	94	calm			0		10							misty.
H. M. S. Garnet, N. 13° 00′, W. 24° 15′	30.09	764.3	80	26.7	70	nnw.			1		4					1		misty.
H. M. S. Griffon, N. 51° 42′, W. 56° 25′	29.89	759.2	49	9.4	?	calm			0		0							blue sky.
H. M. S. Iron Duke, N. 50° 34′, E. 141° 42′	29.43	747.5	60	15.6	94	sse.			6		6	sse.				6	sse.	d. clouds.
H. M. S. Kingfisher, N 48° 10′, W. 124° 50′	30.03	762.7	53	11.7		calm			0		1							blue sky.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.88	758.9	79.3	26.3	94	se.			1		5					1	sw.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili						calm			0		10							d. clouds.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	29.75	755.6	81.0	27.2	80	ssw.			1		10							raining.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.84	757.9	80	26.7	74	nw.			2		2					1	nw.	d. clouds.
H. M. S. Nelson, S. 35° 16′, E. 174° 08	29.56	750.8	52	11.1	79	w.			2									showery.
H. M. S. Northampton, Halifax, Nova Scotia	30.00	762.0	64	17.8	94	wsw.			2		9	wsw.						misty.
H. M. S. Orion, N. 35° 53′, E. 14° 51′	29.91	759.7	78.5	25.8		n.			1		0							blue sky.
H. M. S. Orontes, N. 35° 10′, E. 17° 25′	29.92	760.0	79.5	26.4	92	wnw.			3		0					2	wnw	blue sky.
H. M. S. Pegasus, N. 2° 54′, E. 101° 11′	29.84	757.9	83.5	28.6	83	ne.			1		0							blue sky.
H. M. S. Rambler, James Bay, Saint Helena Island	30.16	766.1	72	22.2	90	sse.			1		4	ese.						d. clouds.
H. M. S. Rocket, Vancouver Island, B. A.	30.02	762.5	53	11.7	100	calm			0		1							blue sky.
H. M. S. Sappho, S 8° 00′ W. 149° 10′	29.91	759.7	79.5	26.4		e.			4–6		6	e.				5	e.	showery.
H. M. S. Swiftsure, Montevideo, Uruguay	30.15	765.8	51.5	10.8	100	se.			3–4		10	s.						showery.
H. M. S. Sylvia, off Flores Island, Uruguay	29.99	761.7	49.9	9.9	86	se.			2		10							overcast.
H. M. S. Tenedos, N. 51° 28′ W. 56° 55′	29.96	761.0	50	10.0	96	e.			1		10							foggy.
H. M. S. Triumph, S 53° 03′, W. 73° 37′	29.75	755.6	41	5.0	48	wnw.			6–7		6	ssw.						snowing.
H. M. S. Woodlark, At al Bida, Arabia	29.39	746.5	100.5	38.1	35	nnw.			6		5	nw.						misty.
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′	29.75	755.6	79	26.1	95	w.			1–2		4	sw.				1	sw.	d. clouds.
PORTUGUESE NAVAL.																		
Rio Lima, N. 13° 18′ W. 19° 11′	30.06	763.5	79.9	26.6	95	ne.			1		10					3	ne.	overcast.
Tamega, Macao, China	29.69	754.1	84.7	29.3	82	s.			2		0			1 h'r	1 h'r			blue sky.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.01	762.2	79	26.1	86	e.	7	3.1			8		se.	0	0			fair.
Navy Yard, Portsmouth, N. H.	30.09	764.3	66	18.9	59	nw.	3	1.3			8		nw.	0	0			fair.
Naval Hospital, Yokohama, Japan*	29.67	753.6	77.5	25.3	91	sw.			3		8		sw.	0.01	0.3			
Adams, Mare Island, Cal						ssw.			2		10			0	0	sm'h		cloudy.
Alaska, Callao, Peru	30.01	762.2	58	14.4	100	calm			0		8			0	0	sm'h		cloudy.
Alert, Mare Island, Cal *	29.90	759.4	59	15.0	82	sw.			1		10			0	0	sm'h		overcast.
Alliance, Boston, Mass	30.07	763.8	70	21.1	70	nw.			1		2			0	0			clear.
Ashuelot, Yokohama, Japan*	29.70	754.4	79	26.1	91	ssw.			3		8		w.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.35	770.9	63	17.2	94	ne.	3	1.3			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	29.98	761.5	70	21.1	85	n.	7	3.1			8		n.	0	0			hazy.
Constellation, Staten Island, N. Y *	30.08	764.0	70	21.1	75	nnw.			2		8		nw.					fair.
Enterprise, Provincetown, Mass *	29.99	761.7	70	21.1	75	nnw.			2		5		nw.			sm'h		fair.
Essex, S. 33° 50′, W. 73° 55′	30.31	769.9	54	12.2	80	se.			6		2		s.			sm'h		clear.
Franklin, Norfolk, Va	30.10	764.5	72	22.2	100	sw.	10	4.5			8		sw.	0.06	1.5			fair.
Galena, N. 37° 56′ E. 8° 34′	29.99	761.7	78	25.6	86	wnw.			2		0					sm'h		clear.
Independence, Navy Yard, Mare Island, Cal	30.02	762.5	57	13.9	81	sw.			2		10			0	0			cloudy.
Iroquois, Mare Island, Cal	30.05	763.3	57	13.9	87	ssw.			2		10							cloudy.
Kearsarge, Norfolk, Va	30.13	765.3	72	22.2	100	sw.			2		10							cloudy.
Lackawanna, Callao, Peru*	30.00	762.0	60	15.6	88	calm			0		10							cloudy.
Lancaster, N. 32° 19′, E. 27° 41′*	29.84	757.9	80	26.7	96	wnw.			3		0			0	0	sm'h		clear.
Marion, S. 34° 54′, W. 56° 13′	29.97	761.2	52	11.1	100	ese.			3		10		se.	light	light	mod	se.	cloudy.
Michigan, Sarnia, Canada	30.11	764.8	62	16.7	72	nw.			1		0							clear.
Minnesota, Newport, R. I.	30.15	765.8	69	20.6	80	n.	1	0.4			8							cloudy.
Monocacy, Chefoo, China	29.64	752.8	71	21.7	100	se.			1		10		calm			sm'h		cloudy.
New Hampshire, Newport, R. I.	30.14	765.5	70	21.1	75	nne.			3		5					sm'h		fair.
Nipsic, N. 32° 13′, E. 25° 16′*	29.84	757.9	79	26.1	78	nw.			2		0					long	nw.	clear.
Onward, Callao, Peru	30.13	765.3	59	15.0	94	calm			0		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.70	754.4	80	26.7	91	w.			1		10		sw.					cloudy.
Passaic, Washington, D. C.	30.18	766.6	72	22.2	?	n.			1		5							fair.
Pensacola, Panama, Panama*	29.76	755.9	80	26.7	91	nw.	2	0.9			10		nw.	0.10	2.5	sm'h		cloudy.
Portsmouth, N. 38° 02′, E. 2° 36′*	29.97	761.2	75	23.9	86	ne.			1		2		sw			sm'h		fair.
Powhatan, Pensacola, Florida	30.13	765.3	80	26.7	87	ne.			1		10		e.					cloudy.
Quinnebaug, Alexandria, Egypt	29.84	757.9	79	26.1	78	nnw.			2		2		calm			sm'h		clear.
Ranger, Mare Island, Cal	30.03	762.7	60	15.6	76	w.			1		10			0	0			cloudy.
Richmond, Yokohama, Japan*	29.71	754.6	79	26.1	95	ssw.			4		8		ssw.	0	0			cloudy.
Saratoga, N. 40° 17′, E. 1° 08′	29.98	761.5	82	27.8	75	e.			1		2		e.	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.32	770.1	70	21.1	80	nw.			1		10		w.	0.01	0.3			raining.
Swatara, Yokohama, Japan*	29.61	752.1	79	26.1	86	ssw.			4		5		sw.			mod.	ssw.	fair.
Tennessee, Provincetown, Mass	30.12	765.0	76	24.4	82	nw.	12	5.4			8			0	0			cloudy.
Vandalia, Portsmouth, N. H*	30.05	763.3	66	18.9	74	wnw.			1		5		calm					fair.
Wabash, Boston, Mass	30.11	764.8	70	21.1	70	wnw.	3	1.3			5		w.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska†	30.37	771.4	50	10.0	100	ne.			1		10		calm			sm'h		cloudy.
Wyoming, Port Royal, S. C*	30.17	766.3	77	25.0	82	sw.	5	2.2			5		w.	0.46	11.7			fair.
Yantic, Provincetown, Mass	30.11	764.8	69	20.6	70	nnw.			1		8							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, Glasgow, Scotland*	29.71	754.6	59	15.0		e.			4		10		sw.					overcast.
S. S. Nova Scotian, N. 50° 17′, W. 39° 42′	30.01	762.2	66	18.9		wsw.			2		0					sl't	w.	clear.
S. S. Scandinavian, N. 44° 24′ W. 54° 54′*.	30.00	762.0	64	17.8		sw.			2		10		sw.	0	0	light	s.	foggy.
S. S. Waldensian, N. 47° 44′, W. 44° —′*	30.09	764.3	50	10.0		wsw.			4		10		wsw.	7 h'r	7 h'r	long	wsw.	rainy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, Liverpool, Eng*†	29.78	756.4				s.			3		9		wsw.	2 h'r	2 h'r			cloudy.
S. S. Lord Gough, Philadelphia, Pa	30.03	762.7	75	23.9		nw.			3		8		wnw.	0	0			cloudy.
AMSTERDAM LINE.																		
S. S. Jason, N. 47° 01′, W. 41° 12′	30.11	764.8	57 2	14.0		w.			3		7 n					4	w.	foggy.
ANCHOR LINE.																		
S. S. Alexandria, Genoa, Italy	29.96	761.0	84	28.9		calm			0		2			0	0			clear.
S. S. Bolivia, N. 46° 15′ W. 39° 56′*†	30.18	766.6	67	19.4		wsw.			1		10		wsw.	0	0	sm'h		cloudy.
S. S. Ethiopia, N. 44° 20′, W. 42° 15′	30.26	768.6	69.5	20.8	64	wsw.			2		7		w.	0	0	sm'h		cloudy.
S. S. Galatia, N. 14° 17′, E. 42° 18′†	29.90	759.4	89	31.7		se.			4		3?		wsw.	0	0	sm'h	wnw.	cloudy.?
S. S. India, N. 41° 24′ W. 34° 26′*	30.30	769.6	76	24.4	95	wsw.			3		3					sm'h		fair.
S. S. Utopia, N. 40° 28′, W. 65° 19′†	30.36	771.1	84	28.9	61	s.			2		8		s.	0	0	sm'h	s.	cloudy.
ATLAS LINE.																		
S. S. Ailsa, Gonaives, Hayti, W. I†	30.32	770.1	82	27.8	74	se.			2		1		se.	0	0	sm'h		clear.
S. S. Alvo, Savanilla, U. S. C.	29.87	758.7				ene.			4		2		ene.	0	0			clear.
S. S. Antillas, Port au Prince, W. I*†	30.25	768.3				ne.			2				ne.					
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 15° 59′, W. 33° 41′	30.17	766.3	75	23.9	76	se.			5		6							squally.
S. S. Basil, N. 10° 40′, W. 33° 07′	30.05	763.3	80.2	26.8	86	ene.			4		5							d. clouds.
S. Baroda, S. 32° 15′, E. 15° 28′	30.25	768.3	60.5	15.8	88	s.			5		4							d. clouds.
S. S. City of Agra, S. 11° 52′, W. 28° 14′	30.18	766.6	75	23.9	95	ese.			5		8							d. clouds.
Bk. Commewyne, N. 23° 47′, W. 59° 23′	30.23	767.8	82.3	27.9	78	ene.			5		7							d. clouds.
S. S. Glencairn, N. 50° 18′, W. 13° 30′	29.86	758.4	58	14.4	100	w.			6		10							overcast.
S. S. Gordon Castle, N. 41° 59′, W. 40° 23′	30.33	770.4	79	26.1	78	wsw.			3		2							blue sky
S. S. Markland, S. 36° 58′, W. 96° 04′	30.29	769.4	60	15.6	100	nnw.			5		10							overcast.
May Hulse, N. 11° 18′, W. 24° 48′	30.03	762.7	79.2	26.2	90	calm			0		10							drizzling.
S. Oamaru, S. 32° 54′, E. 14° 02′	30.30	769.6	61.5	16.4	77	ese.			5		5							d. clouds.
Pole Star, N. 32° 43′ W. 41° 04′	30.42	772 7	79.3	26.3	95	ese.			2		3							d. clouds.
CALIFORNIA AND MEXICAN STEAMSHIP COEPANY.																		
S. S. Mexico, N. 24° 02′, W. 111° 21′*†	29.93	760.2	66	18.9	94	nw.			3		fg.					mod.	w.	foggy.
CROMWELL LINE.																		
S. S. Hudson, N. 24° 20′, W. 82° 05′†	30.13	765.3	82	27.8		e.			5		5		ene.	1 h'r	1 h'r	cross	e.	fair.
CUNARD LINE.																		
S. S. Gallia, N. 40° 55′, W. 59° 27′	30.18	766.7	75	23.9	90	sw.;nw			5		10			h'vy	hv'y	sm'h		cloudy.
S. S. Marathon. N 47° 23′, W. 36° 04′	30.12	765.0	60	15.6		wsw.			1		10		wsw.	5 h'r	5 h'r	sm'h	w.	raining.
S. S. Scythia, N. 46° 33′, W. 38° 30′	30.11	764.8	64	17.8	97	wsw.			3		10			shr's	shr's	mod.	wsw.	light fog.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 40° 58′ W. 63° 35′†	30.19	766.7	77.0	25.0		sw.			4	c		sw.		0	0	sm'h	sw.	clear.
S. S. Ville de Marseilles, Marseilles, France*†	30.00	762.0	83	28.3		calm			0		0			0	0			clear.
GUION LINE.																		
S. S. Arizona, N. 42° 32′, W. 49° 40′	30.27	768 8	57	13.9		ssw.			2		0			0	0	sm'h		blue sky.
S. S. Wisconsin, N. 46° 36′, W. 38° 42′	30.08	764.0	64	17.8	57	w.			4		10		w.	4 h'r	4 h'r	mod.	w.	foggy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 49° 26′, W. 20° 53′†	29.85	758.2				wnw.			6		6		nw.	3 h'r	3 h'r	h'vy	w.	squally.
S. S. Cimbria, N. 45° 34′, W. 37° 59′	30.25	768.3	73	22.8		w.			2		3		w.	0	0	sm'h	wnw.	fair.
S. S. Gellert, N. 40° 10′, W. 69° 25′	30.14	765.5	64	17.8		s.			2		8			0	0			foggy.
S. S. Herder, N. 48° 12′, W. 19° 45′	30.12	765.1	63	17.2		sw.			4		10		wnw.	4 h'r	4 h'r	long	wnw.	covered.
S. S. Silesia, New York, N. Y.†	30.24	768.1				nnw.			4		7		nw.	0	0			cloudy.
S. S. Wieland, N. 45° 19′, W. 40° 07′	30.27	768.8	66	18.9		sw.			4		2		wsw.	0	0	3	wsw.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 19° 36′, W. 38° 00′*†	30.49	774.4	74	23.3		ne.			5		4		sse.	0	0	sm'h		squally.
LEYLAND LINE																		
S. S. Bulgarian, N. 51° 35′, W. 8° 00′*	29.90	759.4				wsw.			4		8		w.	14 h'r	14 h'r	mod	wsw.	cloudy.
MAILORY LINE.																		
S. S. Colorado, New York, N. Y.†	30.11	764.8	71	21.7		ne.			1		4		ne.	0	0			fair.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Brooklyn, N. Y*†	30.16	766.1	76	24.4	90	ene.			2		8		w.	0	0			cloudy.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 49° 32′, W. 20° 59′*†	29.56	750.8	59.0	15.0		w.			6		10		w.	4 h'r	4 h'r	r'gh	w	threatening.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 3° 04′, W. 47° 39′	29.52	749.8				ene.			3				ene.	0	0	sm'h	ne.	fine.
S. S. Glenapp, N. 38° —′, W. 75° —′†	30.08	764.0				ssw			2		3		s.	0	0	sm'h		hazy.
MORGAN LINE.																		
S. S New York, N. 27° 10′, W. 85° 43′†*.	30.20	767.1	82	27.8		se.			3				se.	0	0	small	se.	clear.
NATIONAL LINE.																		
S. S. Canada, N. 40° 29′ W. 68° 48′†	30.07	763.8	64	17.8		s.			1		8		wsw.	0	0	sm'h		foggy.
S. S. Denmark, N. 41° 00′, W. 53° 34′	30.28	769.1	73	22.8		ssw.			3		2		wsw.	0	0	sl't	sw.	clear.
S. S. Erin, N. 41° 13′, W. 53° 15′	30.26	768.6	69	20.6		sw.			4		3		wsw.	0	0	sm'h		fine.
S. S. The Queen, N 49° 24′ W. 9° 26′	29.78	756.4	60	15.6		wnw.			6		8?		calm	sh'rs	sh'rs	long	w.	clear.?
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 29° 41′, W. 74° 00′†	30.31	769.9	80	26.7		sse.			3		8		s.	2 h'r	2 h'r	sm'h		cloudy.
S. S. Saratoga, N. 31° 42′ W. 79° 20′†	30.40	772.1	78	25.6	90	e.			3		8		sw.	3 h'r	3 h'r	sm'h		cloudy.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.†	30.12	765.0	74	23.3	72	ne.			2		2		n.	0	0			clear.
S. S. City of Washington, N. 38° 04′, W. 74° 30′*†	30.25	768.3	78	25.6		sw.			4		10		sw.	24 h'r	24 h'r	mod.	ssw.	light rain.
NORTH GERMAN LLOYD																		
S. S. America, N. 43° 10′, W. 43° 29′*.	30.35	770.9	66.2	19.0		wsw.			4		0			0	0	sm'h	wsw.	fine.
S. S. Gen. Werder, N. 44° 40′. W. 42° 52′	30.26	768.6				sw.			2		2			0	0	sm'h		clear.
S. S. Habsburg, N. 47° 07′, W. 31° 17′	30.16	766.1	62.6	17.0		wnw.			4		10			8 h'r	8 h'r	mod.	wnw.	light rain.
S. S. Hermann, N. 37° 00′, W. 75° 28′	30.16	766.1	69.8	21.0		wsw.			3		7		sw.	0	0	mod.	sw.	cloudy.
S. S. Neckar, Off Eddystone Light, England	30.02	762.5	60.0	15.6		s.			5		4		s.	0	0	mod.	s.	fair.
S. S. Ohio, Bremerhaven, Germany	30.10	764 5				sw.			4		6		sw.	0	0			fair.
S. S. Rhein, N. 49° 10′, W. 21° 10′	29.82	757.4				wnw.			5		6		w	light	light	r'gh	w.	drizzling.
S. S. Salier, N. 49° 26′, W. 6° 53′	29.99	761.7	59.0	15.0		sw.			5		8		sw.	3 h'r	3 h'r	mod.	w.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 48° 12′, W. 175° 20′*†	30.03	762.7	49	9.4	100	ese.			5		10		se.	0	0	sm'h		foggy.
S. S. Belgic San Francisco, Cal†	30.10	764.5	58	14.4	93	sw.			1		8		ssw.					foggy.
S. S. Gaelic, N. 42° 05′, W. 152° 20′†	30.57	776.5	66	18.9	84	w			4		3		w.			sm'h		misty.
S. S. Oceanic, Yokohama, Japan*	29.79	756.7	77	25.0	95	var.			3		10		sw.					fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.25	768 3				ssw.			1		4		sw.	0	0			clear.
S. S. City of Columbus, N. 37° 57′, W. 74° 16′*	30.13	765.3				w.			2		2			0	0	mod.	wsw.	clear.
S. S. Seminole, Off Gay Head, Martha's Viney'd, Mass†	30.12	765.0	72	22.2	85	ne.			1		5		nw.	0	0	mod.	se.	fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, San Francisco, Cal†	30.07	763.8	54	12.2	79	calm			0		10							gloomy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 35° 34′, W. 122° 05′†	29.97	761.2	55	12.8	87	nw.			5		10		nw.			mod.	wnw.	cloudy.
S. S. City of Chester, Off Piedras Blancas, Cal.*†	29.96	761.0	56	13.3	62	nw.			3		10		nw.			sm'h	nw.	hazy.
S. S. Idaho, N. 52° 28′, W. 132° 05′†	30.47	768.8	53	11.7	86	wnw.			2		10		w.			mod.	w.	overcast.
S. S. State of California, N. 42° 37′, W. 124° 40′†	30.15	765.8	56	13.3	87	nw.			4		8					sm'h	nw.	overcast.
S. S. Victoria, Nanaimo, Vancouver's Island†	29.89	759.2	67	19.4	90	nw.			2		0			0	0			clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Pacific Mail Steamship Company.																		
S. S Australia, Sydney, N. S. W.	30.01	762.2	52	11.1	86	w.			5		1		w.	0	0			clear.
S. S. City of New York, S. 30° 26′, E. 179° 32′†	29.88	758.9	66	18.9	68	w.			5		8		w.	0	0	hv'y	sw.	squally.
S. S. City of Pekin, N. 41° 45′, W. 131° 39′†	30.31	769.9	58	14.4	88	n.			4		10		n.	0	0	mod.	n.	cloudy.
S. S. City of Rio de Janeiro, N. 8° 15′. W. 83° 09′.*†	30.09	764.3	80	26.7	87	s.			2		8		s.	1 h'r	1 h r	long	s.	clearing.
S. S. City of Sydney, S. 24° 05′, W. 175° 37′†	29.96	761.0	71	21.7	85	ne.			3		2		nw.	0	0	mod.	w.	clear.
S. S. City of Tokio, N. 35° 26′, E. 139° 39′†	29.89	759.2	79	26.1	86	wsw			6		5		wsw.	0	0			fine.
S. S. Colon, N 25° 11′, W. 74° 00′†	30.21	767.3	78	25.6		ese.			3		6		e.	2 h'r	2 h'r	small	e.	fair.
S. S. Colima, N. 18° 22′, W. 103° 36′†	29.98	761.5	81	27.2	70	nw.			3		10		wnw.	0	0	small	se.	fair
S. S. Grenada, N. 35° 22′, W. 121° 44†′	30.02	762.5	55	12.8	87	nw.			1		4		n.	0	0	sm'h	nw.	hazy.
Quebec S. S. Company.																		
S. S. Muriel, N. 33° 25′, W. 69° 23′	30.08	764.0	82	27.8		wsw.			3		10			0	0	sm'h		overcast.
S. S. Bermuda, Bridgetown, W. I†	30.07	763.8	85	29.4		e.			1		6		e.	0	0	g'tl	se.	fine.
Red Star Line.																		
S. S. Belgenland, N. 39° 53′ W. 50° 33′†	30.59?	777.0?	80	26.7	74	wsw.			4		9			0	0	sm'h	w.	
S. S. Nederland, Off Dungeness, Eng.	30.17	766.3	64	17.8	83	sw.			3		2		sw.	0	0	sm'h		fair.
S. S. Switzerland, N. 49° 46′. W. 6° 29′†	29.98	761.5				ssw.			4		8		ssw.	4½ h'r	4½ h r	mod	ssw.	fair.
S. S. Vaderland, N. 47° 09′ W. 28° 02′	29.92	760.0	62	16.7	88	wnw.			4		10		wnw.	0	0	cross		overcast
Rotterdam Line.																		
S. S. P. Caland, N. 40° 30′, W. 63° 40′	30.14	765.5	77.4	25.2	92	ssw.			3		7 kn		sw.			sm'h	sw	
S. S. W. A. Scholten, New York, N. Y.	30.10	764 5	73.1	22.8	74	calm			0		10		sw.	0	0			
State Line.																		
S. S. State of Florida, Glasgow. Scotland	29.69	754 1	61	16.1		wnw			2		10		w.	shr's	sh'rs			showery.
S. S. State of Indiana, N. 50° 23′, W. 30° 17′†	30.22	767.6	56	13.3		nw.			4		3		nw.	6 h'r	6 h'r	mod.	nw.	clear.
Thingvalla Line.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.28	769.1	71.6	22.0		ssw.			1		3		ssw.	0	0			clear.
Warren Line.																		
S. S. Iowa, N. 46° 18′ W. 34° 26′*†	30.27	768.8	61	16.1		sw.			4		9		sw.	4 h'r	4 h'r	mod.	sw.	cloudy.
White Cross Line.																		
S. S. Plantyn, N. 49° 52′, W. 5° 39′	30.22	767.6							5		6		sw.	3 h'r	3 h'r	4	sw.	foggy.
White Star Line.																		
S. S. Adriatic, N. 40° 30′ W. 68° 35′†	30.18	766.6	67.5	19.7	97	s.			2		8		s.			g'tl	s.	fair.
S. S. Baltic, N. 44° 26′ W. 43° 12′†	30.35	770.9	67	19.4	95	wsw.			3		3		w.	1 h'r	1 h'r	2		misty.
S. S. Britannic, N. 48° 18′, W. 32° 29′†	30.15	765.8	60	15.6	88	n.			3		8		nw.			sli't	nw.	raining.
S S. Celtic, Liverpool, Eng†	29.88	758.9	65	18.3	84	sw.			3		10		wsw.	shr's	shr's			dull.
S. S. Germanic, N. 40° 55′, W. 59° 38′†	30.29	769.4	76	24.4		sw.			4		10		wnw.			sm'h		overcast.
S. S. Republic, N. 50° 03′, W. 22° 41′*†	29.94	760.5	58	14.4	82	w.			6		9		w.	sh'rs	sh'rs	r'gh	w.	d. clouds.
Winsor Line.																		
S. S. Catherine Whiting, Providence, R. I.†	30.16	766.1	82	27.8		e.							n.	0	0			
Miscellaneous.																		
Schr. Ajax, N. 28° 20′ W. 88° 57′†	30.13	765.3				sse.			1		5		se.	0	0	sm'h	se.	fair.
Bk. Alpha, N. 39° 30′ W. 67° 40′†	30.11	764.8	78	25.6		sw.			4		6		w.	0	0	mod.	w.	cloudy.
Schr. Annie Lewis, Aransas, Pass, Texas†	30.19	766.8	63	28.3		s.			1		0			0	0	sm'h		clear.
Bk Anna Thormann, S. 38° 57′, E. 36° 08′	29.97	761.1	53.6	12.0	79	ssw.			6		10 n		sw	2 h'r	2 h'r	mod.	sw.	rainy.
S. S. Antonio Lopez, N. 21° 13′, W. 58° 04′	30.21	767.3	80	26.7	82	e.			5		3			0	0	mod.		fair.
Bk. Argonaut, N. 48° 31′, W. 32° 00 *†	30.15	765.8	57.9	14.4		wnw.			2		9		wnw.	5 h'r	5 h'r	long	wsw.	covered.
Schr. Asa Eldridge, Havana, Cuba, W. I.†	30.19	766.8				e.			3		2		se.	0	0			fair.
S. S. Burswell, N. 44° 28′, W 22° 20′*†	30.24	768.1	74	23.3		wsw.			4		5		wsw.	0	0	mod.	nw.	hazy.
Bk. Cato, N. 58° 20′, E. 5° 18′*†	30.35	770.9				sw.			3		4?		ssw.	0	0	sm'h	sw.	cloudy?
Bk. Celestina, S. 25° 52′, W. 29° 28′*†	30.42	772.7				se.			4		10		ese.	0	0	r'gh	sse.	fair.
Schr. C. R. Flint, N. 26° 37′, W. 83° 50′†	30.36	771 1	78	25.6		ese.			1		2		se.	1 h'r	1 h'r	mod.	s.	clear.
S. Cornelius, N. 41° 25′, W 41° 30′*†	30.61	777.5	73	22.8		ssw.			3		5		wsw.	0	0	sm'h	sw.	fair.
S. S. D. J. Foley, N. 19° 25′, W. 74° 55′†	30.00	762.0				e.			4		5		ese.	0	0	mod	e.	clear.
Schr. Edith R. Seward, N. 18° 25′, W. 67° 35′*†	30.13	765.3	83	28.3		ne.			1		1		ne.	0	0	mod.	ne.	clear.
S. E. J. Spicer, New York, N. Y*	30.18	766.6	74	23.3		ne.			3		7		wnw.	0	0			
Bk. E. L. Pettingill, N. 33° 31′ W. 140° 08′†	30.40	772 1				ne.			3		2		ne.	0	0	sm'h	w.	fair.
S. Enoch Train, N. 41° 55′. W. 43° 20′*†	30.40	772.1				wsw.			2		0			0	0	sm'h		fine.
Bk. Essex. S. 37° 33′ E. 25° 55′*†	30.25	768.3	61	16.1		nw.			6		6		ssw.	½ h'r	½ h'r	sm'h	w.	cloudy.
Bk. Franklin, N. 39° 24′, W. 64° 50′*†	30.43	772.9				ssw.			3		8			0	0	sm'h	ssw.	fair.
Bk. Freya, N. 37° 00′, W. 75° 48′						ssw.			2		0			0	0	sm'h		clear.
S. Grecian, Hong Kong, China*†	29.70	754 4	87	30.6		nne.			2		3			0	0			clear.
Bk. Hattie G. McFarland, Philadelphia, Pa*†	30.19	766.8	72	22.2		ne.			3		3		n.	2 h'r	2 h'r			fair.
S. Hedwig, N. 42° 45′. E 15° 30′	29.89	759.1	77.4	25.2	88	nnw.			2		2		nw.	0	0	sm'h		
Bk. Horace Scudder, N. 17° 31′, W. 57° 46′†	30.21	767.3	81	27.2		e.			3		5		se.	⅛ hr	⅛ hr	mod.	e.	blue sky.
S. Ivy, N. 0° 20′, W 130° 00′†	30.15	765.8	71	21.7		e.			4		1		se.	0	0	mod.	se.	clear.
S. Ismir, S. 36° 44′ E. 89° 50′†	30.02	762 5				wnw.			6		10		nw.	3 h'r	3 h'r	r'gh	nw.	dull.
Schr. James Slater, N. 7° 00′ W. 51° 50′*†	30.28	769.1	85	29.4		e.			1		2		e	0	0	mod.	ne.	fine.
Schr. Jennie N. Huddell, N. 43° 25′, W. 70° 10′†	30.24	768.1	68	20.0	90	n.			3		5?		nw.	0	0	long	s.	clear ?
Bk. Johanne, N. 47° 25′, W. 33° 35′*†	30.13	765.3	61	16.1		wsw.			2		10		w.	light	light	r'gh	wsw.	overcast.
Schr. John L. Thomas, N. 23° 35′. W. 82° 13′*†	30.20	767.1				ene.			3		1		ese.	0	0	short	ene.	clear.
Bg. John Wesley, N. 19° 52′ W 75° 00′†	29.94	760.5				ene.			3		2		ene.	0	0	mod.	e.	fair.
Bk. Joseph A. Ropes, S. 10° 43′, W. 31° 15′*†	30.18	766.6	79	26.1	86	sse.			5		4		sse.	0	0	mod.	sse.	fair.
Bkt. Josephine, N. 30° 30′, W. 73° 27′†	30.24	768.1	84	28.9	71	sse.			4		0			0	0	sm'h		clear.
Bkt. Kryolith, N. 45° 22′, W. 57° 19′*†	30.08	764.0				ssw.			3		2		ssw.			sm'h		foggy.
S S. Laurel, Key West, Florida†	30.16	766.1	85	29.4		se.			2		8		se.	2 h'r	2 h'r			cloudy.
Bk. Liberia, N. 15° 03′, W. 38° 40′*	30.02	762.5	76	24.4	90	ene.			4		5		e.	0	0			
S. S. Madrid, N. 42° 54′, W. 46° 22′*†	30.46	773.7	68	20.0		calm			0		0			0	0	sm'h		blue sky
S. S. Nebo, N. 38° 20′, W. 10° 08′*†	30.25	768.3				n.			5		0			0	0	cross	nnw.	clear.
S. Paramita, S. 2° 40′ W 120° 00′†	29.84	757 9	77	25.0		se.			4		1		se.	0	0	short	se.	clear.
S. S. Sunbeam, Odessa, Russia	29.87	758.7	84	28.9	75	ene.			2		10		ene.					overcast.
S. Sovereign of the Sea, S. 9° 46′ W. 32° 46′*†	30.03	762.7	81	27.2	78	se.			4		1		se.	0	0	r'gh	se.	clear.
Bg. Teneriffe, N. 23° 26′ W. 80° 15′	30.09	764.3				sse.			1									
Bk. Truro, N. 42° 32′, W. 45° 20′*†	30.30	769.6				w.			1		0			0	0	sm'h		clear.
U.S. F. C. S. S. Fish Hawk, Washington, D. C†	30.32	770.1	78	25.6	90	nw.			1		6		nw.	0	0			fair.
S. S. Victoria J. Peed, Inagua, W I*†	30.06	763 5				se.			2		8							
Schr. Viola Reppard, Baltimore, Md†	30.01	762.2	78	25.6		n.			2		7			0	0			
Bk. Wm. Wilcox, S. 34° 35′, W. 58° 20′*†.	30.16	766.1	62	16.7		ssw.			3		10		s.	0	0	sm'h		cloudy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 22, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.03	762.8	83.8	28.8	47	sw.			1		1			0	0	very fair	Bouvier.
Algiers			30.02	762.5	77.7	25.4	67	n.			3		0			0	0	clear	Nicolas.
La Calle			29.96	761.0	85.6	29.8	66	n.			1		0			0	0	clear	Fonfrède.
Tunis			29.94	760.5															Jacques.
Saida			30.09	764.3	91.0	32.8	46	sse.			1		0			0	0	clear	Perés.
Tebessa			30.05	763.2	93.2	34.0	15	se.			1		1			0	0	very fair	Derché.
Geriville					93.0	33.9	7	nnw.			1		0			0	0	clear	Louchamp.
Laghouat			30.09	764.2	96.8	36.0	25	n.			2		1			0	0	very fair	Abraham.
Biskra			30.06	763.6	98.6	37.0	14	se.			1		3			0	0	pretty fair	Malau.
Australian.																			
Melbourne, Victoria	29.99	761.7	30.08	764.0	48.5	9.2	72	ne.	5	2.2			9			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.28	743.8	29.80	756.9	84.2	29.0	49	sw.			1		1			0.266	6.6		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.05	737.8	29.76	756.0	86.0	30.0	86	e.	3.8	1.7			1			0.681	17.3	thnd'r storm	Dr. Wierzbiski.
Eperies	28.96	735.5	29.77	756.2	87.1	30.6	43	calm			0	0	7 k			0	0		Julius Mikolik.
Gratz	28.64	727.4	29.82	757.3	78.4	25.8	73	nw.			3		6			0	0		Andreas Rospini.
Hermannstadt	28.42	721.9	29.75	755.6	84.2	29.0	46	se.			2		1			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.63	727.3	29.92	760.0	72.3	22.4	65	wnw.			1		8			0.102	2.6	cloudy	The Staff.
Lemberg	28.91	734.4	29.84	757.8	83.7	28.7	46	se.			2		4			0	0		Dr. T. Stanecki.
Pola	29.71	754.6	29.81	757.2	90.9	32.7	55	wnw.			1		3			0	0		I. R. Hydrographic Office.
Szathmar	29.34	745.1	29.78	756.3	87.8	31.0	33	e.			1		1			0	0		Joseph Midlinszky, S. J.
Szegedin	29.49	749.1	29.75	755.7	88.9	31.6	37	calm			0		5			0	0		Karl Stancel.
Trieste	29.73	755.2	29.84	757.8	86.7	30.4	58	calm			0		1			0	0		Royal Academy.
Vienna	29.17	740.9	29.85	758.1	81.1	27.3	49	w.			5		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.50	749.3	29.60	751.8	62.0	16.7	68	sse.	18	8.0			3			0.080	2.0	blue sky	W. Boswell
Armagh, Observatory	29.41	747.0	29.64	752.8	58.7	14.8	73	sw.	11	4.9			8					d. clouds	S. Call.
Bidston, Liverpool Obs'y					63.1	17.3	88	sse.	15	6.7			9					overcast	John Hartnup.
Bolton, Sharples	29.16	740.7	29.69	754.1	59.8	15.4	83	ssw.	18	8.0			10					overcast	Thomas Mackereth, Ion.
Bradford, Yorkshire	29.32	744.7	29.72	754.9	62.4	16.9	71	se.			1		10			0.10	2.5	overcast	McLandsborough & Pres
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	83.0	28.3	70	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.77	756.1	70.0	21.1	73	sw.			3.0		7						John McLaren.
Chatham, School M. E.	29.73	755.1	29.86	758.4	65.4	18.6	76	sw.			1		10			blank	blank	gloomy	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.64	752.8	29.86	758.4	60.2	15.7	68	w.			3		9					overcast	The Staff.
Fort Napier, Natal	27.91	708.9	30.13	765.3	65.2	18.4	69	e.			1		8					overcast	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.65	753.1	29.89	759.2	87.0	30.6	69	sw.			1		4					d clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.97	761.2	30.02	762.5	81.5	27.5	70	w.			4		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.32	744.7	29.53	750.0	57.6	14.2	87	sw.			4		10 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.66	753.4	29.82	757.4	64.8	18.2	75	ssw.			2		10					showery	The Staff.
Guernsey	29.60	751.8	29.90	759.4	62.5	16.9	88	w.			2		5			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.79	756.7	29.83	757.7	64.8	18.2	78	ssw.	20	8.9			10					drizzling	The Staff.
Leicester, Museum	29.49	749.0	29.74	755.4	64.2	17.9	78	sw.			3		10					overcast	J. C. Smith.
Malta, Mediterranean	29.78	759.4	29.85	758.2	79.6	26.4	73	ne.			2		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.17	766.3	30.22	767.6	86.0	30.0	68	se.			2		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.25	742.9	29.76	755.9	59.8	15.4	92	s.			3		10					raining	Warren Middleton.
Oxford, Radcliffe Obs'y	29.56	750.8	29.79	756.7	64.5	18.1	85	s.			4		9					overcast	The Staff.
Plymouth	29.76	755.9	29.84	757.9	64.1	17.8	73	w.			3		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.55	750.6	62.6	17.0	74						10					overcast	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.64	752.8	29.70	754.4	85.2	29.6	53	w.			1		3					d. clouds	W. H. Lyne.
Sheffield	29.46	748.3	29.73	755.1	65.4	18.6	73	sw.			2		10			0.32	8.1	overcast	W. F. Cooper.
Silloth Rectory	29.61	752.1	29.64	752.8	60.9	16.1	89	sw.			2		10			0.225	5.7	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.72	754.9	60.2	15.7	81	s.	13	5.8			10			blank	blank	overcast	Rev. S. J. Perry.
Stratfield Turgiss	29.61	752.1	29.82	757.4	63.5	17.5	86	sw.			1		9					showery	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.85	758.2	29.86	758.4	64	17.8	67	w.			4		0					d clouds	W. Newcombe.
Valencia, Observatory	29.69	754.1	29.71	754.6	57.6	14.2	69	sw.	32	14.3			10			blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.98	761.5	30.02	762.5	64	17.8	81	sw.	9	4.0		2 c	3 ks	sw.	sw.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.94	760.5	30.00	762.0	63	17.2	78	sw.	5	2.2		5 ck	0	sw.		0	0	fair	G. A. Blair.
Father Point, Quebec*	29.91	759.7	29.93	760.2	57	13.9	83	w.	18	8.0		5 k	0	w.		0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.24	742.7	30.05	763.3	58	14.4	80	s.	14	6.3		0	0			0	0	clear	James Stewart.
Halifax, N. S*	29.90	761.0	30.09	764.3	64	17.8	90	w.	3	1.3			8 ks		w.	0	0	cloudy	A. Allison.
Kingston, Ontario*	29.82	757.4	30.15	765.8	60	15.6	84	w.	2	0.9		0	0			0.04	1.0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.88	758.9	30.08	764.0	63	17.2	75	w.	12	5.4		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.47	748.5	30.15	765.8	64	17.8	78	sw.	9	4.0		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.52	749.8	30.20	767.1	61	16.1	94	calm	0	0		0	0			0.15	3.8	clear	H. Morgan.
Port Stanley, Ontario	29.56	750.8	30.20	767.1	55	12.8	93	w.	2	0.9		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.75	755.6	30.05	763.3	59	15.0	93	w.			3		8 n		w.	0.26	0.6	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.63	752.6	30.08	764.0	58	14.4	90	calm	0	0		2 ck	0	nw.		0.01	0.3	fair	W. H. McIntyre.
Saugeen, Ontario*	29.50	749.3	30.20	767.1	61	16.1	87	sw.	8	3.6		2 cs	0			0	0	clear	
St. Andrews, N. B	30.02	762.5	30.07	763.8	59	15.0	85	calm	0	0		0	0			0	0	clear	
Sydney, C. B*	29.58	761.5	30.04	763.0	64	17.8	81	sw.	8	3.6		4 cs	0	w.		0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.81	757.2	30.19	766.8	63	17.2	60	nw.	10	4.5		0	0			0.11	2.8	clear	Magnetic Observatory.
Yarmouth, N. S*	30.06	763.5	30.12	765.0	60	15.6	90	sw.	1	0.4		8 k	0	w.		0.05	1.3	cloudy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.81	731.8	30.28	769.1	53.0	11.7	73	wnw.			2	0	0			0	0	clear	Wm. Wylie.
St. Johns, Newfoundland	29.95?	760.7?	30.20?	767.1?	64?	17.8?	89	sw.	3	1.3		10 k	10 s			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.47	773.9	30.50	774.7	57.0	13.9	81	se.	14.6	6.5			10 n			0.240	6.1	cloudy	John Duthie.
Cape Town, C. G. H. Obs'y	30.21	767.3	30.25	768.3	67.0	19.4	64	sw.	17	7.6		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.69	754.0	29.71	754.6	77.5	25.3	91	se.	10.1	4.5		6 c	0			0	0		M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.88	758.9	29.93	760.1	61.9	16.6	80	se.	7	3			10						Oversergent Fischer.
Fanöe	29.87	758.8	29.89	759.3	65.7	18.7	67	sw.			4		1						Overloerer Lauridsen
Godthaab, Greenland	29.71	754.5	29.75	755.6	49.6	9.8	69	s.			6		1			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.60	751.9	29.65	753.0	51.4	10.8	83	calm			0		8						A. O. Thorlacius.
Thorshavn	29.59	751.5	29.62	752.4	54.3	12.4	87	e.	13	6			8						Overloerer Bergh.
Vestervig	29.79	756.7	29.88	759.0	63.7	17.6	90	wsw.			2		10						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.49	749.0	30.11	764.9	73.8	23.2	62	calm			0	ck	0	w.		0	0		M. Labrous, Director.
Alençon, Normal School	29.47	748.4	30.02	762.4	68.0	20	81	s.			1		n		n.	0.16	4.		M. Nicot, Director.
Arras, Engineer School	29.82	757.5	30.08	763.9	67.8	19.9	71	sw.			4		kn		sw.	0	0		M. Fénéon, Command't.
Avignon, Normal School	29.87	758.6	29.95	760.6	82.8	28.2	41	nne.			2		0			0	0	clear	M. Girand, Director.
Bar-sur-Seine	29.50	749.3	30.04	763.0	71.8	22.1	49	s.			1		6			0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.73	755.1	29.99	761.7	67.0	19.8	71	s.			2		10		sw.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.11	739.3	29.97	761.2	74.5	23.0	59	ssw.			1		10 kn		sw.	0.67	17.	covered	M. Gobin, Director.
Bordeaux, Observatory	29.84	757.8	30.10	764.5	70.3	21.3	55	sw.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.54	750.2	30.07	763.8	69.8	21	57	wnw.			2		k		wnw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.72	754.9	29.97	761.1	65.8	18.8	75	w.			2		5		w.	0.110	2.8		M. de Kermaree, Dir.
Caen, Normal School	29.90	759.4	29.97	761.2	67.5	19.7	75	se.			1		8		w.	0	0	very cloudy.	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.72	754.8	30.03	762.7	71.1	21.7	55	s.			1		5		w.	0	0	cloudy	M. Judot, Director.
Charleville, Normal School	29.48	748.7	29.97	761.3	73.0	22.8	44	wnw.			3					0	0		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.72	729.5	30.02	762.6	73.8	23.2	45	ne.			1	2 c; ck	0			0.118	3.0	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.19	741.3	30.00	762.0	65.7	18.7	73	nnw.			1		4		n.	0.051	1.3		M. de Villemontée, Dir.
Commercy, Normal School	29.19	741.4	30.03	762.7	71.1	21.7	54	w.			1	5 ck		w.	w.	0.024	0.6	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.50	698.6	29.93	760.3	75.6	24.2	46	e.			2	1	3 k		nw.	0	0		M. Jeangirard, Director.
Créasque, du Rhone	28.82	731.9	29.88	758.9	84.2	29	32	nw.			3		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.23	742.4	29.97	761.1	75.4	24.1	61	n.			2		k			0.142	3.6		M. Ablard, Director.
Guéret, Normal School	28.61	725.8	30.15	765.9	66.9	19.4	63	ssw.			1	c	0	w.		0	0		M. Rivoire, Director.
Lamballe, Normal School	29.63	752.6	29.90	759.4	68.0	20	68	nw.			2		5		nw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.61	752.0	30.16	766.1	69.4	20.8	59	w.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.89	759.1	29.99	761.7	67.3	19.6	74	wsw.			1		8	nw.	w.	0.059	1.5	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.00	736.5	30.02	762.5	73.6	23.2	44	n.			1	c	5 n	w.	n.	0.335	8.5	½ covered	M. André, Director.
Mans, Normal School	29.78	756.4	30.08	764.1	64.2	17.9	86	wsw.			3		5		ssw.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.64	752.9	29.90	759.5	84.2	29.0	34	nw.			2		1		nw.	0	0		M. Stephan, Director.
Montlouis	24.96	634.0	29.80	757.0	63.1	17.3	64	nw.	7.4	3.3			7			0.150	3.8		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.81	757.2	29.93	760.2	88.2	31.2	51	w.			3		2		nw.	0	0	slightly cl'dy.	M. Galzin, Director.
Nancy, Normal School	29.35	744.9	30.09	764.3	72.0	22.2	50	sw.			1		kn		w.	0	0		M. Hasse, Director
Nantes, Observatory	29.87	758.8	30.03	762.7	68.9	20.5	78	sw.			2–3		10 n		wsw.	0.024	0.6		M. Larocque, Director.
Perpignan, Observatory	29.91	759.6	30.01	762.2	80.2	26.8	38	nw.	18.6	8.3			1		sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.40	543.6			48.0	8.9		ssw.			1		2	n.	ssw.	0	0	slightly cl'dy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.00	736.7	30.02	762.5	79.3	26.3	36	n.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.27	641.8			52.9	11.6	67	wnw.			2	2 c	0			0.150	3.8	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.06	763.6	30.10	764.4	69.8	21.0	100	sw.			2		10		wsw.	0.31	8.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.73	755.1	29.94	760.5	68.4	20.2	78	sw.			3		5		w.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.94	709.7	30.03	762.8	69.8	21.0	59	w.			2		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.01	762.2	29.98	761.4	64.4	18	88	ssw.			1		5	sw.		0.35	9.	cloudy	M. Brotier.
Saint Maur, Observatory	29.85	758.1	30.01	762.3	67.8	19.9	62	s.			2		10		sw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.47	748.4	30.19	766.9	72.5	22.5	49	w.			1		1		w.	0	0	clear	M. Baillaud, Director.
Tours	29.85	758.1	30.02	762.6	72.0	22.2	58	sw.			1		8		sw.	0	0	very cloudy	M. de Tastes.
Versailles, Observatory	29.52	749.8	30.01	762.3	66.6	19.2	68	w.			2					0.008	0.2		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.72	755.0	30.02	762.4	68.2	20.1	66	sw.			2		10		sw.	inap.	inap.	sprinkling	M. Marié Davy, Director
GERMAN.																			
Ansbach	28.57	725.6	29.95	761.0	70.9	21.6	54	nw.			2		3	nw.		0.315	8.0		Prof. Jnedt.
Bamberg	29.12	739.7	29.98	761.4	72.3	22.4	66	w.			1	3 k	0	w.		0.354	9.0		Prof. Dr. Hoh.
Berlin	29.85	758.1	30.02	762.5	71.6	22.0	73	w.			2		9			0.819	20.8		Prof. Dr. Arndt.
Breslau	29.37	745.9	29.89	759.3	79.9	26.6	49	n.			1		5			0.024	0.6		Royal University Obs'y.
Carlsruhe	29.56	750.9	29.99	761.7	73.4	23.0	63	s.			1		5	sw.		0	0		Albert Senz.
Cassel	29.22	742.2	29.93	760.3	74.8	23.8	57	n.			2		5	n.		0.941	23.9		Dr. H. Möhl.
Frankfort-on-the-Main	29.60	751.9	29.95	760.9	74.7	23.7	59	wsw.			1		5			0.913	23.2		Physical Society.
Friedrichshafen	28.61	726.7	29.99	761.8	73.4	23.0	75	sw.			1		10	w.		0.504	12.8		Wilhelm, Chief Tel.
Hamburg	29.83	757.7	29.93	760.1	74.5	22.5	60	wnw.			3		7			0	0	hazy	E. Preller.
Kiel	29.89	759.1	29.90	759.5	70.9	21.6	63	wnw.			3		9			0	0		Prof. Dr. G. Karsten.
Leipsic, Astronn'l Obs'y	29.54	750.2	29.94	760.5	72.0	22.2	68	nw.			4		8	w.		0.295	7.5		H. Leppig, Asst.
Magdeburg	29.72	755.0	29.91	759.6	74.7	23.7	63	nw.			1	0	5 ks		wnw.	0.421	10.7		Dr. Assmann.
Memel	29.89	759.2	29.94	760.4	78.0	25.9	71	wnw.			2		8 s						Isermann.
Munich	28.22	716.7	30.08	764.1	72.5	22.5	58	w.			2		9	w.		0.024	0.6		Dr. C. Lang.
Neufahrwasser	29.87	758.7	29.89	759.1	73.8	23.2	70	n.			2		7			1.043	26.5		A. Lothes.
Neustadt, Palatinate	29.43	747.0	29.96	760.9	75.2	24.0	44	w.			2		4	w.		0	0		Dicknether.
Stuttgart	29.04	737.6	29.89	759.3	74.3	23.5	45	n.			4		3	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.91	759.6	29.93	760.2	68.0	20.0	81	nne.			3		10 s			0.114	2.9		Profs. Brandes & Reimer
GREEK.																			
Athens	29.40	746.8	29.78	756.3	83.1	28.4		s.			1.0		6			0.004	0.1	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.39	746.4	29.44	747.7	84.9	29.4	78	wsw.	30.0	13.4			7		w.	0	0	d. clouds	
Deesa	28.92	734.6	29.39	746.4	81.0	27.2	78	wsw.	15.0	6.7			10	sw.	wsw.	1.20	30.5	overcast	
Bombay	29.57	751.1	29.61	752.0	80.3	26.8	87	sw.	17.0	7.6			9		wsw.	0.14	3.6	d. clouds	
Poona, Yarrowda	27.76	705.0	29.61	752.0	76.4	24.7	72	wsw.	15.0	6.7			6		w.	0.03	0.8	d. clouds	
Trichinopoly	29.45	748.1	29.73	755.0	89.3	31.8	44	wnw.	5.0	2.2			8			0	0	d. clouds	
Bellary	28.19	716.1	29.64	752.9	87.2	30.7	48	nw.	35.4	15.8			6	sw.		0	0	d. clouds	
Belgaum	27.16	689.8	29.71	754.7	69.1	20.6	96	wsw.	11.0	4.9			9		sw.	0.42	10.7	showery	
Lahore	28.69	728.8	29.43	747.4	80.0	26.7	87	ne.	6.9	3.1			10		e.	1.66	42.2	raining	
Roorkee	28.50	723.9	29.37	746.1	87.2	30.7	67	se.	6.8	3.0			8			0.01	0.3		
Agra	28.80	731.4	29.35	745.4	86.3	30.2	72	ne.	11.6	5.2			5		e.	0.11	2.8	d. clouds	
Nagpur	28.46	722.9	29.49	749.1	80.7	27.1	77	w.	6.2	2.8			7		w.	0.07	1.8	d. clouds	
Jubbulpore	28.16	715.2	29.50	749.2	79.8	26.6	77	w.	4.2	1.9			10			0.008	2.0	overcast	
Lucknow	29.03	737.4	29.40	746.7	91.1	32.8	59	calm	2.4	1.1			5			0	0	d. clouds	
Allahabad	29.10	739.2	29.41	747.0	87.5	30.8	63	calm	1.3	0.6			6	e.		0.51	13.0	d. clouds	
Patna	29.27	743.4	29.45	748.0	88.4	31.3	69	sw.	4.8	2.2			5	sw.	sw.	0	0	d. clouds	
Hazaribagh	27.46	697.6	29.44	747.8	79.6	26.4	86	nw.	6.0	2.7			10		n.	2.37	60.2	thnd'r str'm	
Cuttack	29.38	746.4	29.47	748.4	82.2	27.9	89	wsw.	1.2	0.5			7			0.12	3.0	d. clouds	
Calcutta, Alipore	29.39	746.6	29.42	747.1	79.7	26.5	90	wnw.	4.0	1.8			10			1.43	36.3	overcast	
Dhubri	29.32	744.6	29.43	747.5	87.6	30.9	79	calm	2.7	1.2			6		se	0	0	d. clouds	
Chittagong	29.39	746.4	29.48	748.6	79.7	26.5	92	ese.	3.9	1.7			10			0.07	1.8	drizzling	
Sibsagar	29.11	739.5	29.44	747.8	87.2	30.7	77	e.	1.3	0.6			2			0.02	0.5	d. clouds	
Jeypore	27.87	707.9	29.30	744.2	79.7	24.8	91	se.	11.4	5.1			10		se.	0.13	3.3	drizzling	
Zanzibar, Africa	30.01	762.2			82.1	27.8	51	sse.	6.3	2.8			8		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.44	747.8	29.83	757.7	87.4	30.8	40	e.	4.3	1.9			2			0	0		Prof. Giovanni Cloelig.
Milan	29.34	745.3	29.84	757.8	89.9	30.5	47	nw.	4.9	2.2			2	sw.		0	0		Prof. Schiaparelli.
Padua	29.71	754.6	29.82	757.3	86.4	30.2	56	wnw.	4.3	1.9			9	ssw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.97	735.9	29.84	757.9	84.9	29.4	60	sw.	3.1	1.4			4	e.		0	0		Prof. P. F. Denza.
Genoa	29.69	754.1	29.87	758.8	81.1	27.3	59	se.	3.8	1.7			0			0	0		Prof. G. M. Garibaldi.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Mondovi	28.01	711.5	29.85	758.1	79.7	26.5	43	wnw.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	29.77	756.2	29.82	757.4	79.0	26.1	72	n.	6.3	2.8			9			0	0		Prof. Luigi Guidi.
Florence	29.58	751.3	29.82	757.3	88.9	31.6	34	w.			2		2			0	0		Prof. Costantino Pitter
Leghorn	29.73	755.2	29.82	757.3	80.1	26.7	54	w.	1.3	0.6			3			0	0		Prof. P. Monte.
Rome	29.67	753.7	29.84	758.0	90.7	32.6	33	w.	0	0			0			0	0		Prof. P. S. Ferrari.
Lecce	29.59	751.6	29.83	757.7	82.6	28.1	42	n.	13.6	6.1			1			0	0		Prof. C. de Giorgi.
Cosenza	29.00	736.6	29.85	758.1	84.2	29.0	72	sse.	2.5	1.1			3	se.		0	0		Prof. D. Conti.
Cagliari	29.66	753.3	29.84	758.0	81.3	27.4	61	sse.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.67	753.5	29.91	759.6	82.2	27.9	61	ne.	8.1	3.6			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.80	757.0	29.85	758.1	81.3	27.4	62	e.	3.1	1 4			1	ne.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.34	745.3	29.84	757.8	84.9	29.7	46	s.	2.5	1.1			0			0	0		Prof. T. Brioschi.
Stelvio	22.28	565.8			50.4	10.2	74	ne.			2		10			0.185	4.7	misty	Prof. P. F. Denza.
Valdobbia	22.32	566.8			59.4	15.2	61	ne.			2		5			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.76	755.9	29.77	756.1	67.0	19.4	91	calm	0	0			10			0	0	covered	
Hiroshima, I. M. Obs'y					76.4	24.7	89	sw.	0.5	0.2			10ks;ck		s.	0.163	4.1	very cloudy	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.72	754.9	29.88	758.9	76.5	24.7	92	ssw.	1.3	0.5			10 n			0.055	1.4	light rain	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.63	752.6	29.83	757.5	77.5	25.3	89	s.	5.4	2.4			10 s			1.210	30.7	overcast	S. Takehayashi.
Nemuro	29.72	754.9	29.78	756.4	68.8	20.4	93	calm	0	0		8	0			0.420	10.7	cloudy	
Niigata	29.86	758.4	29.89	759.1	78.8	26.0	91	w.	2.8	1.2			10 cks		sw.	0.900	22.9	covered	M. Morita.
Nobiru	29.80	756.8	29.81	757.2	75.9	24.4	93	s.	3.0	1.3		2ck;cs	7 s			0	0	cloudy	H. Midzushina.
Osaka	29.84	757.9	29.85	758.2	77.8	25.4	85	ssw.	2.4	1.1			10ks;s			0.252	6.4	covered	
Supporo					69.2	20.7	91	calm	0	0			5			0.425	10.8	fair	
Tokei Obs'y, Yeddo	29.80	756.9	29.87	758.7	79.0	26.1	79	ssw.	14.6	6.5		1 cs	7ck;ks	sw.	sw.	0.010	0.2	cloudy	The Staff.
Wakayama	29.83	757.7	29.88	758.9	78.1	25.6	82	ssw.	14.5	6.5			10		s.	0.415	10.5	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.83	757.7	30.02	762.5	74.0	23.3	74	wsw.	7.5	3.4		5cs;ck	4k;ks;n	ne.	n.	0.07	1.8	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.79	604.2	30.01	762.2	58.7	14.7	81	ene.				0	0			inap.	inap.	clear	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.06	763.5	58.3	14.6	88	wsw.			2	3 ck	0	sw.		0.197	5.0	fair	Prof. M. Leal.
Mazatlan	29.72	754.8	29.98	761.4	80.0	26.7	89	ne.	0	0		0	3 n		se.	inap.	inap.	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.19	588.9	30.23	767.9	53.6	12.0	85	nw.	0.2	0.1		1 c	2 k			0	0	clear	The Staff.
Morelia	24.33	618.0	30.44	773.2	57.6	14.2	68	se.			2	3	3	s.	s.	0	0	½ cloudy	M. Tena, M. D.
Orizaba																inap.	inap.		Prof. M. M. Cházaro.
Pabellon, Aguascallentes	24.05	610.8	30.04	763.0	60.6	15.9	74	nnw.			1	0	0			0	0	fine	M. V. de Leon, M. E
Puebla, Catholic Institute	23.45	595.7	30.18	766.5	56.3	13.5	86	calm	0	0		0	0			0.020	0.5	fine	Prof. P. Spina.
San Luis Potosi	24.29	616.6	30.19	766.7	63.0	17.6	56	e.				3	4	w.	e.	0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.66	575.7	30.23?	769.9?	59.1	15.1	62	ne.	6.6	2.9		1 ck	0			0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.93	760.3	29.93	760.3	70.0	21.1		sw.			4					0	0		
Groningen	29.86	758.5	29.92	759.9	70.2	21.2		sw.			3					0	0		
Helder	29.88	758.9	29.88	758.9	66.2	19.0		ssw.			4					0.028	0.7		
Hellevoetsluis	29.92	760.0	29.92	760.0	70.2	21.2	70	ssw.			2					0	0		
Utrecht	29.88	758.9	29.93	760.1	74.3	23.5	55	ssw.			3		8			0	0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.70	754.3	29.76	755.9	65.5	18.6	54	s.	16	7			9			0.236	6.0	raining	
Brono	29.80	756.9	29.84	757.9	63.0	17.2	62	sw.	9	4			3			0.020	0.5		
Christiania	29.76	756.0	29.91	759.6	66.9	19.4	60	w.	9	4			8			0	0		
Gjesvær	29.70	754.4	29.72	755.0	56.3	13.5		wsw.			6		9						
Lodingen	29.76	756.0	29.81	757.2	53.6	12.0	82	sw.			2		10			0.142	3.6		
PORTUGUESE.																			
Angra, Azores					70.5	21.4	78	w.	15.0	6.7			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.07	738.3	30.02	762.4	85.1	29.5	27	n.	4.9	2.2			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.18	766.5	30.26	768.7	72.7	22.6	63	sw.	7.4	3.3			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.82	757.4	30.17	766.4	72.7	22.6	49	nnw.	21.7	9.7			0			0	0		The Staff.
Ponta Delgada, Azores	30.34	770.6	30.41	772.4	75.9	24.4	71	ssw.	5.6	2.5			4			0.039	1.0		
Saint Paul de Loanda	29.89	759.1	30.09	764.3	70.2	21.2	85	n.	0.7	0.3			10			0	0		
Serra da Estrella	25.45	646.5	30.05	763.2	64.4	18.0	45	n.	6.3	2.8			0			0	0		
RUSSIAN.																			
Akmolinski	28.64	727.5	29.69	754.1	61.5	16.4	70	w.	7	3		0	4 k			0	0		Major K. Lasarew.
Archangel	29.95	760.7	29.97	761.2	63.1	17.3	71	wnw.	18	8		0	6 ks			0	0		Capt. Sselliwerstow
Astrakhan	29.99	761.7	29.91	759.6	88.3	31.3	41	ssw.	9	4		0	1 s			0	0		Capt. Wisganow.
Barnaul	29.15	740.5	29.63	752.6	70.3	21.3	63	sse.	9	4			10			0	0		Meteorological Obs'y
Dorpat	29.75	755.0	29.98	761.4	83.5	28.6	54	ese.	2	1		0	4 k			2.421	61.5		Observatory.
Ekaterinburg	28.91	734.2	29.82	757.3	81.0	27.2	36	n.	4	2		0	2 k			0	0		Meteorological Obs'y.
Irkutsk	28.14	714.7	29.69	754.1	73.9	23.3	52	calm	0	0		0	0			0	0		
Kasan	29.63	752.6	29.88	758.9	80.4	30.2	35	n.	2	1		0	5 k			0	0		Observatory.
Kertch	29.63	752.5	29.65	753.0	80.4	26.9	69	e.	45	20		0	7 s			0	0		Lagorio & Sastyrez.
Kieff	29.26	743.2	29.85	758.1	86.9	30.5	40	calm	0	0		c;cs	9 ks			0	0		Observatory.
Lugan	29.61	752.1	29.80	756.9	95.4	35.2	20	ene.	22	10			7			0	0		Meteorological Obs'y
Moscow	29.46	748.2	29.90	759.4	81.1	27.3	61	calm	0	0			3 ks						Meteorological Obs'y.
Nikolaiev	29.69	754.1	29.76	755.9	91.9	33.3	30	ene.	31	14		0	6 s			0	0	light clouds	Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.51	749.6	29.65	753.2	73.6	23.1	95	calm	0	0			9 n			0.295	7.5	raining	Physical Observatory
St. Petersburg	30.00	761.9	30.01	762.3	77.9	25.5	45	wnw.	4	2		0	3 ks;s			0	0		Central Physical Obs'y
Semipalatinsk	28.94	735.0	29.55	750.6	76.3	24.6	31	ssw.	13	6			9			0	0		Major Lasarew.
Tashkend, Laboratory	28.34	719.8	29.84	757.8	77.0	25.0	33	nw.	2	1			0			blank	blank		Teich, A. M.
Tiflis	28.47	723.1	29.80	756.8	88.3	31.3	33	se.	7	3		0	3 k			0	0		Physical Observatory
Vladivostock	29.54	750.2	29.60	751.9	64.4	18.0	99	ese.	7	3			10 n						
Warsaw	29.42	747.3	29.81	757.2	88.2	31.2	41	se.	2	1		0	5 ks						Astronomical Obs'y
Wilna	29.52	749.7	29.91	759.6	87.1	30.6	54	se.	4	2			5			0	0		Berg, Assistant.
Yeniseisk	29.34	745.2	29.61	752.1	75.4	24.1	93	sw.	7	3			7			0.039	1.0	raining	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.87	758.6	29.97	761.2	82.8	28.2	53	s.	4.5	2.0			0						Antonio Rave, Director.
Bilbao, Met. Obs'y	30.09	764.3	30.15	765.8	79.5	26.4	44	nw.	2.0	0.9		3	0	e.		0	0	almost clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.18	690.4	30.04	763.0	71.6	22.0	42	n.	8.1	3.2			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.4	29.96	761.0	83.5	28.6	30	n.	3.6	1.6		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director
Santiago, Met. Obs'y	29.26	743.2	30.10	764.6	66.6	19.2	80	sw.	6.3	2.8			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I																			Benito Vines, S. J.
Manilla, Philippine Islands	29.70	754.3	29.75	755.7	80.0	26.7	81	ssw.	22.0	9.8		1 c	5 ck	e.	sw.	0.661	16.8	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.03	762.7	30.13	765.2	71.2	21.8	66	w.	3.0	1.4		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.04	762.9	30.13	765.2	82.0	27.8	79	se.	0.9	0.4		0	2 kn		se.	2.500	63.5	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.58	751.3	29.71	754.6	81.8	27.7	85	nw.	2.9	1.3		0	7 ks		ene.	inap.	inap.	cloudy	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.92	759.9	29.96	760.9	63.7	17.6	60	sw.			2		5			0	0		
Umea	29.87	758.7	29.92	760.0	67.3	19.6	65	sw.			4		5			0	0		
Hernosand	29.85	758.3	29.91	759.6	64.8	18.2	60	s.			6		6			0	0		
Stockholm	29.82	757.3	29.99	761.8	70.9	21.6	43	s			2		7			0	0		
Wisby	29.91	759.6	29.97	761.1	72.7	22.6	45	se.			4		5			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Swedish—Continued.																			
Sub-series.																			
Upsala	29.88	759.0	29.97	761.2	72.3	22.4	44	se.	4.7	2.1			9	wsw.	s.	0.031	0.8		S. G. Fineman.
Swiss.																			
Geneva	28.61	726.7	29.98	761.5	73.0	22.8	61	n.			4					0	0	cloudy	The Observatory
Scottish.																			
Monach Lt			29.48	748.8	58	14.4	94	s.			0.4	5	5	s.		0.1	3.	showery	J. Youngclause.
North Unst			29.60	751.8				s.			8		fg.					foggy	
Turkish.																			
Constantinople			29.74	755.5	81.1	27.3	57	n.	8	3.5			7		sw.	0	0		The Observatory.
Valona			29.97	761.1	82.9	28.3		w.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.75	755.7	86.0	30.0	57	w.			2	0	3 k		sw.	0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	30.11	764.8	30.19	766.8	68	20.0	70	s.	2	0.9		0	0			inap.	inap.	clear	J. O. Barnes.
Alpena, Michigan	29.55	750.6	30.19	766.8	60	15.6	75	w.	8	3.6		4 cs	3 s	w.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.12	638.0	29.86	758.4	53	11.7	83	e.	3	1.3		0	0	n.		0.04	1.0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.14	689.3	29.87	758.7	63	17.2	78	sw.	6	2.7		0	4 s		sw.	0	0	fair	B. O. Lenoir.
Atlanta, Georgia	29.02	737.1	30.16	766.1	71.0	21.7	97	nw.	5	2.2			10 n			0.12	3.0	light rain	H. Hall.
Atlantic City, New Jersey	30.14	765.5	30.15	765.8	71.4	21.9	87	ne.	5	2.2			10 s		calm	0.11	2.8	cloudy	Jas. M. Watson.
Augusta, Georgia	30.02	762.5	30.20	767.1	73.0	22.8	90	se.	2	0.9			10 s			0.47	11.9	cloudy	John Healy.
Baltimore, Maryland	30.18	766.6	30.23	767.8	70	21.1	66	n.	1	0.4			10s;fg		w.	0.01	0.3	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.12	765.0	30.14	765.5	71.0	21.7	94	n.	8	3.6			10 s			0.09	2.3	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.47	723.1	30.01	762.2	62	16.7	72	se.	12	5.4		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.19	690.6	29.90	759.4	62	16.7	90	w.	9	4.0		1 c	8 s			0.55	14.0	cloudy	G. W. Davis.
Behring Island, Behring Sea	29.37	746.0	29.39	746.5	47.8	8.8		s.	10	4.5			10 s			0.05	1.3	light rain	Dr. L. Steineger.
Bismarck, Dakota	28.26	717.8	29.98	761.5	62	16.7	78	se.	10	4.5		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.15	765.8	30.18	766.6	68.0	20.0	73	calm	0	0			10 ks		nw.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.08	687.8	29.80	756.9	68	20.0	53	ne.	2	0.9		3 k	0	calm		inap.	inap.	fair	B. E. Light.
Boston, Massachusetts	30.01	762.2	30.16	766.1	65.0	18.3	65	w.	4	1.8			10 s			0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.98	761.5	30.02	762.5	77.3	25.2	97	calm	0	0		0	2 s		calm	0	0	clear	M. McCarty.
Buffalo, New York	29.47	748.5	30.20	767.1	65	18.3	82	s.	5	2.2		1 k	0	sw.		0	0	clear	Wm. Finn.
Buford, Fort, Dakota	28.00	711.2	29.94	760.5	63	17.2	73	e.	5	2.2		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.84	757.9	30.12	765.0	67.5	19.7	67	sw.	1	0.4		0	0			inap.	inap.	clear	G. C. Schaeffer.
Cairo, Illinois	29.88	758.9	30.27	768.8	66.0	19.2	70	ne.	11	4.9		0	0			0.07	1.8	clear	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.32	693.9	29.91	759.7	74	23.3	64	e.			1		8 ks			0.13	3.3	cloudy	J. T. Fitzgerald.
Cape Henry, Virginia	30.13	765.3	30.15	765.8	71	21.7	100	sw.	5	2.2			10ks;s			0.65	16.5	cloudy	A. K. Alderson.
Cape May, New Jersey	30.14	765.5	30.18	766.6	72.0	22.2	84	calm	0	0			10 n		n.	inap.	inap.	light rain	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.15	765.8	30.17	766.3	81	27.2	79	se.	12	5.4		0	5 ks		s.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.48	748.8	30.27	768.8	62.8	17.1	65	nw.	6	2.7		0	0			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.13	765.3	30.18	766.0	76	24.4	82	sw.	2	0.9		0	8 ks		sw.	0.62	15.7	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.32	744.7	30.15	765.8	71.0	21.7	90	e.	4	1.8			10 s		ne.	1.08	27.4	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.39	746.5	30.19	766.8	70.0	21.1	90	ne.	1	0.4			10 n		w.	0.03	0.8	light rain	B. L. Goulding.
Cheyenne, Wyoming	24.21	614.9	29.90	759.4	51.7	10.9	93	sw.	6	2.7			fg.			0.03	0.8	dense fog	E. McGovern.
Chicago, Illinois	29.57	751.1	30.26	768.6	63.8	17.7	76	w.	2	0.9		0	hz.			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.13	765.3	30.15	765.8	72	22.2	90	n.	2	0.9			10 ks		sw.	0.34	8.6	cloudy	V. P. Temple.
Cincinnati, Ohio	29.60	751.8	30.24	768.1	68	20.0	66	n.	3	1.3		0	0			0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.53	750.0	30.25	768.3	62.2	16.8	65	s.	4	1.8		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.32	719.3	30.08	764.0	70	21.1	100	ne.	4	1.8			10 s			0.14	3.6	cloudy	L. Dorman.
Columbus, Ohio	29.39	746.5	30.22	767.6	62	16.7	72	n.	1	0.4		0	hz.			0	0	light haze	D. Cuthbertson.
Concho, Texas	28.20	716.3	30.08	764.0	68	20.0	100	n.	8	3.6			10 n		n.	0.57	14.5	light rain	W. W. McConihe.
Custer, Fort, Montana	26.82	681.2	29.84	757.9	59	15.0	84	sw.	4	1.8		6 k	0	calm		0	0	fair	V. Verge.
Davenport, Iowa	29.66	753.4	30.29	769.4	64	17.8	78	n.	1	0.4		0	hz.		calm	0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.33	643.4	29.97	761.2	66	18.9	70	n.	8	3.6			10 ks		n.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.22	716.8	29.93	760.2	60.0	15.6	67	calm	0	0		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.42	645.7	29.84	757.9	63.0	17.2	75	sw.	4	1.8		3 c	0	w.		0	0	clear	G. W. Scott.
Decatur, Texas					74	23.3	47	se.	8	3.6		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.14	765.5	30.16	766.1	71	21.7	94	n.	12	5.4			10 s		nw.	0.10	2.5	cloudy	A. Schneider.
Denison, Texas																			J. McGlone.
Denver, Colorado	24.88	631.9	29.89	759.2	59.0	15.0	72	s.	3	1.3		0	1 ks			0.16	4.1	clear	F. M. Neal.
Des Moines, Iowa	29.43	747.5	30.31	769.9	58	14.4	87	calm	0	0		0	fg.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.54	750.3	30.24	768.1	61.0	16.1	84	w.	6	2.7		0	0			0	0	clear	O. F. R. Wappenhans.
Dodge City, Kansas	27.08	703.1	30.18	766.6	65.0	18.3	90	se.	6	2.7			10 n		se.	0.85	21.6	light rain	W. M. Mattingly.
Dubuque, Iowa	29.60	751.8	30.29	769.4	60.8	16.0	84	calm	0	0		0	fg.			0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.51	749.5	30.23	767.8	68	20.0	70	w.	3	1.3		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.27	743.4	30.06	763.5	77.0	25.0	76	se.	2	0.9		0	5 s		se.	0	0	fair	F. Belford.
Eagle Rock, Idaho	25.41	645.4	29.96	761.0	51	10.6	69	n.	4	1.8		0	0			0.30	7.6	clear	J. M. Clifford.
Eastport, Maine	30.00	762.0	30.06	763.5	66.0	18.9	68	sw.	4	1.8		8 c	0	sw.		0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.45	697.2	30.09	764.3	60	15.6	84	ne.	12	5.4			10 n		ne.	0.53	13.5	lightrain	W. J. Cundall.
El Paso, Texas	26.41	670.8	30.01	762.2	66	18.9	93	nw.	4	1.8		5 k	0	w.		0.38	9.7	fair	J. F. Marshall.
Erie, Pennsylvania	29.51	749.5	30.22	767.6	66	18.9	58	s.	2	0.9		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.56	750.8	30.20	767.1	65	18.3	68	w.	7	3.1		4 c	0	nw.		0.38	9.7	fair	C. Dill.
Fredericksburg, Texas	28.40	721.3	30.10	764.5	76	24.4	88	n.	4	1.8			10 n			0.25	6.3	heavy rain	H. S. Miles.
Galveston, Texas	30.03	762.7	30.08	764.0	81	27.2	82	s.	4	1.8		2 c	3 ks		e.	0.01	0.3	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.60	751.8	30.26	768.6	65.0	18.3	75	calm	0	0		0	0			0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.34	643.6	29.91	759.7	68.4	20.2	55	calm	0	0			10 s			0.04	1.0	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.15	765.8	30.17	766.3	77.0	25.0	90	w.	8	3.6		9 k	0	n.		0.39	9.9	cloudy	R. M. Crawford.
Helena, Montana	25.85	656.6	29.91	759.7	64	17.8	56	calm	0	0			10 k		w.	0.05	1.3	cloudy	S. Wheaton.
Henrietta, Texas	29.22	742.2	30.20	767.1	69.0	20.6	100	ne.	10	4.5			10 n			0.81	20.6	light rain	J. W. Byram.
Huron, Dakota	28.84	732.5	30.16	766.1	53.9	12.2	90	se.	10	4.5		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.48	748.8	30.25	768.3	64	17.8	68	n.	3	1.3		0	0			0	0	clear	O. Schutze
Indianola, Texas	30.04	763.0	30.07	763.8	78.9	26.1	91	s.	4	1.8		0	3 k		s.	0.28	7.1	clear	I. A. Reed.
Jacksboro, Texas	28.99	736.3	30.11	764.8	69	20.6	100	ne.	6	2.7			10 n		ne.	1.05	26.7	light rain	J. P. Sherry.
Jacksonville, Florida	30.14	765.5	30.18	766.6	80	26.7	88	calm	0	0		2 cs	0			0.04	1.0	clear	J. W. Smith.
Keogh, Fort, Montana	27.42	696.5	29.83	757.7	69	20.6	57	se.	6	2.7		2 cs	0			0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.63	752.6	30.26	768.6	66.0	18.9	70	calm	0	0		0	0			0	0	clear	F. Z. Goswisch
Key West, Florida	30.08	764.0	30.10	764.5	85.0	29.4	72	e.	8	3.6		0	2 k		e.	0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.14	765.5	30.16	766.1	71.0	21.7	94	n.	2	0.9		0	8 ks		nw.	2.60	66.0	cloudy	E. A. Beals.
Knoxville, Tennessee	29.18	741.2	30.18	766.6	68	20.0	92	ne.	5	2.2			10 n			0.03	0.8	light rain	J. A. Cody.
La Crosse, Wisconsin	29.53	750.0	30.28	769.1	66	18.9	68	sw.	4	1.8		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.24	666.5	29.98	761.5	65.3	18.5	92	calm	0	0		3 c	3 s	e.		1.06	26.9	fair	N. D. Lane.
Leavenworth, Kansas	29.45	748.0	30.31	769.9	58	14.4	80	calm	0	0		0	fg.			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.11	739.4	29.92	760.0	70.0	21.1	59	se.	1	0.4		0	0			0.01	0.3	clear	W. Bell.
Little Rock, Arkansas	29.92	760.0	30.22	767.6	69	20.6	90	ne.	7	3.1		0	9 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.64	752.8	30.03	762.7	60.1	15.6	81	s.	2	0.9			10 s			0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.66	753.4	30.21	767.3	65	18.3	73	n.	7	3.1		0	sk.			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.55	750.6	30.22	767.6	67.5	19.7	84	nw.	4	1.8			10 n			0.29	7.4	light rain	W. R. Bushby.
Macon, Fort, North Carolina	30.15	765.8	30.16	766.1	78	25.6	88	w.	5	2.2			10 ks		sw.	0.05	1.3	cloudy	F. P. Chaffee.
Madison, Wisconsin	29.29	744.0	30.27	768.8	62	16.7	84	n.	2	0.9		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.64	651.2			64	17.8	60	n.	14	6.3		7 k	0	n.		0	0	cloudy	H. W. Dodge.
McKavett, Fort, Texas	27.89	708.4	30.09	764.3	73	22.8	82	ne.	8	3.6			10 s			0	0	threatening	J. E. Thatcher.
Marquette, Michigan	29.48	748.8	30.19	766.8	68	20.0	61	w.	10	4.5		4 c	0	w.		0	0	fair	J. Gilligan.
Memphis, Tennessee	29.88	758.9	30.21	767.3	70	21.1	78	n.	4	1.8		9 cs	0	w.		inap.	inap.	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.53	750.0	30.26	768.6	61	16.1	78	n.	7	3.1		0	0			inap.	inap.	clear	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.78	680 2	29.90	759.4	55	12.8	93	s.	1	0.4	.....	0	0	.....	.....	0.03	0.8	clear	J. H. Jones.
Mobile, Alabama	30.11	764.8	30.15	765.8	75.5	24.2	90	ne.	2	0.9	.....	7cs;ck	0	sw.	.....	0.03	0.8	fair	C. A. Read.
Montgomery, Alabama	29.03	760.2	30.15	765.8	74.0	23.3	90	sw.	1	0.4	.....	.....	10 n	.....	sw.	0.01	0.3	light rain	J. B. McLaughlin.
Moorhead, Minnesota	29.18	741.2	30.14	765.5	56	13.3	86	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.25	742.9	30.25	768.3	62.5	16.9	85	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.96	608.6	30.03	762.7	41.0	5.0	96	nw.	35	15.6	.....	.....	fg.	.....	nw.	0.21	5.3	dense fog	J. G. Linsley
Nashville, Tennessee	29.66	753.4	30.18	766.6	71.0	21.7	82	n.	1	0.4	.....	9 cs	0	w.	.....	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.07	763.8	30.18	766.6	64.5	18.1	80	nw.	2	0.9	.....	10c;ck	sk.	sw.	.....	inap.	inap.	cloudy	J. H. Sherman.
New London, Connecticut	30.14	765.5	30.19	766.8	66	18.9	90	calm	0	0	.....	9 c	0	.....	.....	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.05	763.3	30.10	764.5	77.8	25.4	90	se.	1	0.4	.....	7 c	sk.	.....	.....	0.03	0.8	fair	L. Dunne.
Newport, Rhode Island	30.13	765.3	30.18	766.6	69.3	20.7	75	sw.	1	0.4	.....	.....	10 s	.....	sw	0	0	cloudy	W. McGillivray.
New York, New York	30.01	762.2	30.18	766.6	72	22.2	82	ne.	3	1.3	.....	0	9s;fg	.....	.....	0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	30.13	765.3	30.16	766.1	73	22.8	100	w.	4	1.8	.....	.....	10 s	.....	.....	0.54	13.7	cloudy	H. L. Kemp.
North Platte, Nebraska	27.31	693 7	30.11	764.8	60.6	15.9	71	se.	18	8.0	.....	0	5 s	.....	se.	0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.03	762.7	30.07	763.8	53.0	11.7	69	calm	0	0	.....	.....	10 s	.....	calm	0	0	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.92	760.0	29.93	760.2	41.6	5.3	100	ese.	9	4.0	.....	.....	10 s	.....	sw.	0.13	3.3	cloudy	P. H. Ray.
Omaha, Nebraska	29.18	741.2	30.31	769.9	63.5	17.5	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Oswego, New York	29.85	758.2	30.17	766.3	63.7	17.6	80	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.59	751.6	30.13	765 3	73.5	23.1	94	ne.	6	2.7	.....	.....	10 s	.....	n.	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.12	765 0	30.15	765.8	76.1	24.5	88	s.	2	0.9	.....	3 cs	5 s	w.	.....	0.02	0.5	cloudy	M. McGauran.
Philadelphia, Pa	30.09	764.3	30.19	766.8	72.5	22.5	58	nw.	4	1.8	.....	.....	10s;hz	.....	nw.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.08	459 2	29.86	758.4	31	— 0.6	100	w.	16	7.2	.....	.....	10s;fg	.....	w.	0.15	3.8	cloudy	L. M. Dey.
Pioche, Nevada	24.15	613 4	29.88	758.9	59.4	15.2	30	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.41	747.8	30.23	767.8	58.3	14.6	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Bryce.
Poplar River, Montana	27.79	705.9	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.11	764.8	30,12	765.0	78.3	25.7	94	se.	4	1.8	.....	0	0	.....	.....	0.79	20.1	clear	M. Hermann.
Port Huron, Michigan	29.55	750.6	30.21	767.3	60.0	15.6	78	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	30.06	763.5	30.11	764.8	67	19.4	68	w.	3	1.3	.....	9 cs	0	w.	.....	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.02	762.5	30.09	764 3	54.0	12.2	74	n.	5	2.2	.....	0	2 s	.....	n.	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.89	632.2	29.88	758.9	63	17.2	65	sw.	1	0.4	.....	0	0	.....	.....	inap.	inap.	clear	J. McN. Wright.
Provincetown, Mass	30.13	765.3	30.16	766.1	67.0	19.4	73	w.	5	2.2	.....	.....	10 s	.....	nw.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.13	765.3	30.14	765.5	79	26.1	88	e.	6	2.7	.....	0	1 k	.....	calm	0.08	2.0	clear	W. J. Evans.
Red Bluff, California	29.56	750.8	29.92	760.0	70.4	21.3	50	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.86	758.4	30.09	764.3	80	26.7	79	se.	9	4.0	.....	0	0	.....	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.53	750.0	30.18	766.6	60	15.6	87	w.	5	2.2	.....	0	fg.	.....	.....	0.01	0.3	clear	E. W. McGann.
Roseburg, Oregon	29.49	749.0	30.03	762.7	55	12.8	80	calm	0	0	.....	0	sk.	.....	.....	0	0	light smoke	J. J. Naury.
Sacramento, California	29.85	758.2	29.92	760.0	57.8	14.3	81	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.70	754.4	30.28	769.1	64.5	18.1	84	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.40	746.7	30.24	768.1	59	15.0	87	sw.	2	0.9	.....	3 cs	fg.	.....	.....	0	0	fair	P. F. Lyons
St. Vincent, Minnesota	29.22	742.2	30.06	763.5	57	13.9	86	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.74	653.8	29.92	760.0	63	17.2	48	calm	0	0	.....	0	0	.....	.....	0.03	0.8	clear	J. Craig.
San Antonio, Texas	29.40	746 7	30.08	764.0	77.5	25.3	90	calm	0	0	.....	.....	10 s	.....	s.	0	0	cloudy	T. J. Kenan.
San Diego, California	29.92	760.0	29.99	761.7	63.3	17.4	83	n.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.56	750.8	30.22	767.6	66.9	19.4	73	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.13	765.3	30.16	766.1	72.0	22.2	82	ne.	8	3.6	.....	.....	10 ks	.....	ne.	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.95	760.7	30.02	762.5	54	12.2	93	sw.	7	3.1	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.47	596.1	29.97	761 2	58	14.4	67	se.	11	4.9	.....	4 c	4 s	sw.	se.	inap.	inap.	cloudy	H. U. Jones.
Savannah, Georgia	30.08	764.0	30.17	766.3	81.7	27.6	77	sw.	5	2.2	.....	3 c	2 k	.....	sw.	0.01	0.3	fair	H. W. Ford.
Shaw, Fort, Montana	26.40	670.5	29.91	759.7	60	15.6	84	w.	1	0.4	.....	8 k	0	w.	.....	0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.92	760.0	30.15	765.8	73	22.8	97	ne.	6	2.7	.....	.....	10 s	.....	ne.	0.75	19.0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.96	735.6	30.16	766.1	67.5	19.7	95	ne.	12	5.4	.....	.....	10 s	.....	ne.	1.95	49.5	cloudy	T. Cleary.
Silver City, New Mexico	24.41	620.0	29.87	758.7	60	15.6	50	s.	1	0.4	.....	0	2 k	.....	calm	0.08	2.0	clear	J. B. Wallace.
Sitka, Alaska	29.95	760.7	30.01	762.2	50 5	10.3	93	calm	0	0	.....	.....	10 n	.....	.....	0.26	6.6	heavy rain	J. J. McLean.
Smith, Fort, Arkansas	29.76	755.9	30.22	767.6	67.8	19.9	84	e.	2	0.9	.....	4 cs	0	e.	.....	0	0	fair	J. B. Campbell.
Smithville, North Carolina	30.14	765.5	30.17	766.3	77	25.0	82	w.	4	1.8	.....	4 cs	0	w.	.....	0.08	2.0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.94	709.7	29.92	760.0	67	19.4	57	se.	4	1.8	.....	3 c	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.64	752.8	30.30	769.6	65	18.3	68	n	2	0.9	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	30.06	763 5	30.20	767.1	65.6	18.7	73	s.	2	0.9	.....	0	9 s	.....	.....	0	0	cloudy	T. S. Outram.
Springfield, Mo	28.86	733.0	30.25	768.3	59.5	15.3	93	e.	6	2.7	.....	0	0	.....	.....	0.07	1.8	clear	J. B. Marbury.
Starkville, Miss	29.69	754.1	30.16	766.1	75	23.9	90	n.	1	0.4	.....	.....	10 s	.....	.....	0.20	5.1	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.20	716.3	29.98	761.5	63	17.2	78	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. Burrows
Stockton, Fort, Texas	27.15	689.6	30.09	764.3	67.0	19.4	100	n.	12	5.4	.....	.....	10 s	.....	n.	0.04	1.0	cloudy	J. O'Dowd.
Thatcher's Island, Mass	30.09	764.3	30.14	765.5	66.0	18.9	76	w.	9	4.0	.....	8 k	0	w.	.....	0	0	cloudy	G. Liebmann.
Toledo, Ohio	29.55	750.6	30.22	767.6	66	18.9	63	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.59	700.8	29.91	759.7	75	23.9	76	se.	2	0.9	.....	.....	9 ks	.....	.....	0.83	21.1	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.59	751.6	29.95	760.7	66.5	19.2	39	sw.	4	1.8	.....	2 cs	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	72	22.2	68	w.	.....	.....	1	4 k	0	sw.	.....	0	0	fair	D. Brooks.
Vicksburg, Mississippi	29.90	759.4	30.14	765.5	74	23.3	90	ne.	2	0.9	.....	.....	10 s	.....	ne.	1.30	33.0	cloudy	H. P. Brisbane.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.53	624.3	29.90	759.4	49.8	9.9	75	w.	2	0.9	.....	3 c; k	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.12	765.0	30.23	767.8	68.0	20.0	76	nw.	3	1.3	.....	.....	10 s	.....	nw.	inap.	inap.	cloudy	B. M. Purssell.
West Las Animas, Colorado	26.24	666.5	30.00	762.0	60.4	15.8	92	se.	7	3.1	.....	7 k	1 s	nw.	.....	0.02	0.5	cloudy	F. W. Brandenburg.
Williamsport, Pa	29.63	752.6	30.21	767.3	59	15.0	81	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.13	765.3	30.18	766.6	75	23.9	90	w.	4	1.8	.....	0	7 s	.....	.....	0	0	fair	A. T. Sherwood.
Winnemucca, Nevada	25.68	652.3	29.90	759.4	55.5	13.1	50	ne.	10	4.5	.....	2 cs	0	sw.	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.98	736.1	30.25	768.3	62	16.7	60	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Attield.
Yuma, Arizona	29.68	753.9	29.82	757.4	81.9	27.7	65	calm	0	0	.....	8 cs	0	.....	.....	0	0	cloudy	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	52.5	11.4	73	se.	1	0.4	.....	.....	9ks;s	.....	w.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.09	764.3	30.10	764.5	81	27.2	95	ne.	.....	.....	.....	5 k	10 ks	.....	.....	0	0	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.99	761.7	30.02	762.5	77	25.0	95	s	2	0.9	.....	.....	10 ks	.....	s.	0.20	5.1	cloudy	J. I. Plume.
Kingston, Jamaica, W. I.	30.08	764.0	30.09	764.3	81.6	27.6	70	n.	1	0.4	.....	3ck;cs	0	ne.	.....	0	0	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	74	23.3	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa	29.95	760.7	30.03	762.7	82	27.8	69	e.	6.5	2.9	.....	3 k	4 cs	e.	se.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.09	764.3	30.09	764.3	78	25.6	86	e.	.....	.....	1	5 c	0	.....	.....	0	0	.....	Dr. C. J. Herug.
Puerto Berrio, U. S. Col'mbia	29.38	746.2	29.94	760.5	79	26.1	85	calm	.....	.....	0	.....	9 ks	.....	sw.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	96	ne.	.....	.....	1	.....	10 ks	.....	ne.	0.04	1.0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.08	764.0	30.10	764.5	82	27.8	70	calm	0	0	.....	2 c	0	.....	.....	0	0	clear	Robert Mason.
York Factory, B. A.	29.90	759.4	29.96	761.0	59.0	15.0	94	w.	8	3.6	.....	.....	10 s	.....	w.	.....	.....	raining	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S Alert, S. 9° 54′, W. 10° 16′	30.19	766.8	75.2	24.0	70	ese.			4		4							d. clouds.
H. M. S. Amethyst, Montevideo, Urugnay	30.35	770.9	48.5	9.2	77	se.			3		5	e.				4	se.	d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.71	754.6	87	30.6		nnw.			3		2	nnw.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.26	768.6	64	17.8		ese.			1-2		0							blue sky.
H. M. S. Champion, Yokohama, Japan			80	26.7	100	s.			3-5		5					3	s.	squally.
H. M. S. Comus, N. 49° 55′, W. 166° 30′	30.06	763.5	50	10.0	86	sse.			3		10					3	sw.	foggy.
H. M. S. Diamond, S. 10° 17′, E. 161° 38′	29.84	757.9	80	26.7	86	calm			0		4	w.						d. clouds.
H. M. S. Dido, N. 14° 50′, W. 61° 30′	30.12	765.0	79	26 1		var.			1									showery.
H. M. Dock Yard, Bermuda, W. I.	30.28	769.1	81	27.2	82	sse			1-2		3	sse.						d. clouds.
H. M. S. Druid, N. 35° 15′, W. 60° 27′	30.38	771.6	81.5	27.5	87	ssw.			1		1					1	w.	blue sky.
H M S. Eclipse, N. 11° 49′, E. 49° 38′	29.52	749.8	90	32.2		wsw.			2-3		5					4	ssw.	d. clouds.
H. M. S. Emerald, N. 13° 00′, W. 22° 40′	30.05	763 3	76	24.4	95	ne.			1		8	nne.				4	s.	d. clouds.
H. M. S. Espiegle, S. 15° 35′, E. 167° 20′	29.79	756.7	77	25.0	90	sw.			2		2	sw.				2	sw.	d. clouds.
H. M. S. Fantome, N. 17° 38′, W. 77° 11′	30.06	763.5	83	28.3		ene.			4-5		6	ene.				4	ene.	d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.01	762.2	59.5	15.3	88	n.			2		9							d clouds.
H. M. S. Garnet, N. 14° 50′, W. 24° 50′	30.08	764.0	78	25.6	77	var.			1		3							misty.
H. M. S. Griffon, N. 51° 42 W. 56° 25′	29.66	753.4	56	13.3	68	s.			2		6							
H. M. S. Iron Duke, N. 51° 26′, E. 140° 52′	29.53	750.0	59	15.0	100	calm			0		10							foggy.
H. M S. Kingfisher, N. 48° 10′, W. 124° 50′	30.04	763.0	51	10.6		calm			0		0							blue sky.
H. M. S. Lark. S. 10° 16′, E. 161° 35′	29.90	759.4	79.3	26.3	88	calm			0		5							showery.
H. M. S. Liffey, Coquimbo, Chili	30.00	762.0	51.5	10.8		calm			0		10							d. clouds.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	29.81	757.2	79.6	26.4	83	ssw.			2-3		8							d. clouds.
H. M S. Minotaur, Aboukir Bay, Egypt	29.82	757.4	80	26.7	76	wnw.			3		2					1	wnw.	d. clouds.
H. M. S. Nelson, S. 35° 16′ E. 174° 08′	29.52	749.8	53	11.7	79	calm			0									d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	30.01	762 2	67	19.4	81	calm			0		9	w.						d. clouds
H. M. S. Orion, N. 35° 06′, E. 19° 00′	29.90	759.4	79.5	26.4		wsw.			1-2		1	nnw.						blue sky.
H. M. S. Pegasus, N. 4° 27′, E. 100° 17′	29.81	757.2	81.5	27.5	87	ne.			1		10							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Is'd	30.15	765.8	71	21.7	95	ne.			1		1	ese.						blue sky.
H. M. S. Rocket, Vancouver Island, B. C	30.03	762.7	51	10.6	100	calm			0		0							blue sky.
H. M. S. Sappho, S. 6° 00′ W. 149° 30′	29.83	757.7	79.5	26.4		ne.			3-4		4	ene.				4	ne.	d. clouds.
H. M. S. Swiftsure, Montevideo, Urugnay	30.25	768.3	53.5	11.9	93	se.			3		5	s.						d. clouds.
H. M. S. Sylvia, off Flores Island, Uruguay	30.38	771.6	46	7.8	69	sse.			3		8	sse.						d. clouds.
H. M. S. Tenedos, N. 51° 28′ W. 56° 55′	29.88	758.9	53	11.7	100	calm			0		10							misty.
H. M. S. Triumph, S. 53° 43′, W. 71° 59′	29.52	749.8	42	5.6	91	wnw.			1-2		4	ssw.						snowing.
H. M. S. Tyne, N. 32° 55′, W. 62° 08′	30.36	771.1	81	27.2	91	ese.			2-3		2	ese.				2	ese.	d. clouds.
H. M. S. Woodlark, Al al Bida, Arabia	29.40	746.7	91.5	33.1	76	ne.			3		7	calm						misty.
H. M. S. Zephyr, N. 34° 41′, E. 135° 12′	29.86	758.4	77	25.0	100	sw.			1							2	ssw.	overcast.
PORTUGUESE NAVAL.																		
Rio Lima, Cape Raxo, Senegambia	30.07	763.7	80.2	26.8	93	nw.			1		10			16 h'r	16 h'r	2		showery.
Tamega, Macao, China	29.72	754.9	84.2	29.0	78	s.			2		1							blue sky.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.04	763.0	77	25.0	86	se.	2	0.9			8		se.	0.02	0.5			fair.
Navy Yard, Portsmouth, N. H.	30.14	765.5	63	17.2	83	calm	0	0			10		sw.	0	0			cloudy.
Naval Hospital, Yokohama, Japan*	29.74	755.4	79.5	26.4	82	sw.			5		2		sw.	0	0			clear.
Adams, Mare Island, Cal						sw.			3		10			0	0	sm'h		cloudy.
Alaska, Callao, Peru	29.97	761.2	59	15.0	94	nw.			1		10			0	0	sm'h		cloudy.
Alert, Mare Island, Cal *	29.88	758.9	57	13.9	87	sw.			4		10			0	0	sm'h		cloudy.
Alliance, Boston, Mass	30.16	766.1	68	20.0	70	nw.			1		10			0	0			overcast.
Ashuelot, Yokohama, Japan*	29.78	756.4	81	27.2	78	ssw.			3		8		sw.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.25	768.3	66	18.9	100	ne.	3	1.3			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.15	765.8	70	21.1	95	n.	2	0.9			8		n.	0	0			hazy.
Constellation, New York, N. Y*	30.16	766.1	70	21.1	80	ne.			2		5		calm					fair.
Enterprise, Provincetown, Mass *	30.13	765.3	69	20.6	85	wnw.			2		10		nw.			sm'h		cloudy.
Essex, off Valparaiso, Chili	30.16	766.1	53	11.7	67	sse.			6		0					r'gh	sse.	clear.
Franklin, Norfolk, Va	30.18	766.6	73	22.8	100	wsw.	3.6	1.6			10		sw.	0.49	12.4			rainy.
Galena, N. 37° 56′ E. 5° 05′	30.01	762.2	78	25.6	91	wnw.			1		2					sm'h		fair.
Independence, Mare Island, Cal	30.01	762.2	57	13.9	100	sw.			3		10			0	0			cloudy.
Iroquois, Mare Island, Cal	30.05	763.3	56	13.3	94	sw.			3		10							overcast.
Kearsage, Norfolk, Va	30.18	766.6	72	22.2	100	w.			1		10		w.					cloudy.
Lackawanna, Callao, Peru*	29.99	761.7	60	15.6	88	nw.			1		8		nw.					cloudy.
Lancaster, N. 33° 53′, E. 24° 43′*	29.80	756.9	81	27.2	91	wnw.			4		8		nw.	0	0	sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	30.30	769.6	47	8.3	100	sse			4		10		s.			mod.	sse.	cloudy.
Michigan, Carp River, Michigan	30.12	765.0	64	17.8	83	ne.			2		0							clear.
Minnesota, Newport, R. I	30.21	767.3	68	20.0	79	nnw.	1	0.4			10							overcast.
Monocacy, Chefoo, China	29.66	753.4	77	25.0	77	ssw.			2		10		calm			sm'h		cloudy.
New Hampshire, Newport, R. I	30.21	767.3	69	20.6	80	n.			1		8		sw.			sm'h		fair.
Nipsic, N. 33° 09′ E. 22° 19′*	29.84	757.9	80	26.7	74	wnw.			3		2					mod.		hazy.
Onward. Callao, Peru†	30.12	765.0	58	14.4	94	nw.			2		10		e.			long	w.	cloudy.
Palos, Kobe, Japan*	29.80	756.9	76	24.4	100	wsw.			1		10		sw.					cloudy.
Passaic, Washington, D. C	30.23	767.8	70	21.1	95	se.			1		10							cloudy
Pensacola, Panama, Panama*	29.83	757.7	76	24.4	95	wnw.	8	3.6			10		wnw.	0.09	2.3	sm'h		cloudy.
Portsmouth, N. 38° 41′ E. 2° 52′*	29.98	761.5	76	24.4	82	ene.			3		2					sm'h		clear.
Powhatan, Pensacola, Florida	30.14	765.5	80	26.7	82	e.			2		8							cloudy.
Quinnebaug, Alexandria, Egypt	29.81	757.2	79	26.1	82	nw.			4		0					sm'h		clear.
Ranger, Mare Island, Cal	30.00	762.0	58	14.4	82	sw.			3		10			0	0			overcast.
Richmond, Yokohama, Japan*	29.80	756.9	80	26.7	91	ssw.			4		8		ssw.	0	0			cloudy.
Saratoga, N. 41° 10′, E. 2° 14′	29.99	761.7	79	26.1	74	sw.			3-4		2		sw.	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.39	771.9	69	20.6	80	n.			1		8			0	0			cloudy.
Swatara, Yokohama, Japan*	29.71	754.6	81	27.2	83	sw.			5		8		calm			mod.	ssw.	fair.
Tennessee, Provincetown, Mass	30.21	767.3	71	21.7	90	wnw.	8	3.6			10			0	0			cloudy.
Vandalia, Portsmouth, N. H*	30.11	764.8	63	17.2	83	nw.			2		9		nw.					cloudy.
Wabash, Boston, Mass	30.16	766.1	65	18.3	68	wsw.	3	1.3			10		sw.	0	0			cloudy.
Wachusetts, Fort Wrangle, Alaska†	30.27	768.8	48	8.9	100	e.			1		10		se.			sm'h		rainy.
Wyoming, Port Royal, S. C*	30.15	765.8	77	25.0	91	w.	2	0.9			5		sw.	0.10	2.5			fair.
Yantic, Provincetown, Mass	30.16	766.1	68	20.0	74	wnw.			2		10							cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, Glasgow, Scotland *	29.61	752.1	64	17.8	.....	sw.	.....	.....	4	.....	10	.....	sw.	.....	.....	.....	.....	overcast.
S. S. Nova Scotian, N. 51° 03′, W. 32° 00′	29.93	760.2	52	11.1	.....	wnw.	.....	.....	4	.....	10	.....	wnw.	.....	.....	long	nnw.	cloudy.
S. S. Scandinavian, N. 45° 41′, W. 49° 50′*	30.01	762.2	54	12.2	.....	sw.	.....	.....	2	.....	10	.....	.....	0	0	light	wnw.	foggy.
S. S. Waldensian, N. 46° 48′, W. 46° 47′*	30.12	765.0	51	10.6	.....	sw.	.....	.....	3	.....	.....	.....	sw.	sh'rs	sh'rs	mod.	wsw.	dense fog.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, Liverpool, Eng *†	29.70	754.4	.....	.....	.....	wsw.	.....	.....	3	.....	6	.....	sw.	sq'lls	sq'lls	.....	.....	cloudy.
S. S. Lord Gough, Philadelphia, Pa	30.12	765.0	80	26 7	.....	nw.	.....	.....	2	.....	5	.....	nw.	0	0	.....	.....	fair.
AMSTERDAM LINE.																		
S. S Jason, N. 45° 35′ W. 46° 29′	30.04	763.0	50.5	10.3	.....	w.	.....	.....	2	.....	10 n	.....	.....	.....	.....	1	w.	foggy.
ANCHOR LINE.																		
S. S. Alexandria, Genoa, Italy	29.87	758.7	81.5	27.5	.....	s.	.....	.....	2	.....	3	.....	s.	0	0	.....	.....	fair.
S. S. Bolivia, N. 48° 19′, W. 34° 02′*†	30.16	766.1	56	13.3	.....	ne.	.....	.....	1	.....	8	.....	ne.	7 h'r	7 h'r	sm'h	.....	cloudy
S. S. Ethiopia, N. 43° 02′, W. 48° 27′	30.22	767.6	61	16.1	?	wsw.	.....	.....	2	.....	10	.....	.....	2 h'r	2 h'r	sm'h	.....	dense fog.
S. S. Galatia, N. 12° 13′ E. 46° 36′†	29.89	759.2	85	29.4	.....	wsw.	.....	.....	6	.....	5	.....	sw.	0	0	mod.	ssw.	
S. S. India, N. 41° 30′, W. 38° 40′*	30.26	768.6	76	24.4	95	wsw.	.....	.....	2	.....	2	.....	.....	.....	.....	sm'h	.....	fair.
S. S. Utopia, N. 40° 31′, W. 60° 33′†	30.40	772.1	86	30.0	68	wsw.	.....	.....	3	.....	4	.....	wsw.	0	0	mod.	sw.	clear.
ATLAS LINE.																		
S. S. Ailsa, Port au Prince, Hayti, W I.†	30.10	764.5	83	28.3	70	se.	.....	.....	2	.....	5?	.....	se.	0	0	sm'h	.....	clear.?
S. S. Alvo, Savanilla, U. S. C.	29.93	760.2	.....	.....	.....	nne.	.....	.....	3	.....	2	.....	ne.	0	0	.....	.....	fair.
S. S. Antilias, Inagua I'd, Hayti, W. I.*†	30.25	768.3	.....	.....	.....	ene.	.....	.....	2	.....	.....	.....	ne.	.....	.....	sm'h	.....	
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 18° 42′, W. 35° 49′	30.24	768.1	74	23.3	72	se.	.....	.....	3	.....	2	.....	.....	.....	.....	.....	.....	blue sky
S. S. Basil, N. 8° 50°, W. 35° 31′	30.07	763.8	80	26.7	84	wsw.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. Baroda, S. 30° 26′. E. 13° 04′	30.25	768.3	61.1	16.2	88	s	.....	.....	4	.....	8	.....	.....	.....	.....	.....	.....	misty.
S. S. City of Agra, S. 15° 04′, W. 29° 24′	30.23	767.8	76	24.4	90	ese.	.....	.....	5	.....	5	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Commewyne, N. 26° 49′, W. 59° 31′	30.30	769.6	83	28.3	70	ene.	.....	.....	4	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Glencairn, N. 51° 17′ W. 9° 38′	29.78	756.4	61.2	16.2	70	wnw.	.....	.....	4-5	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Gordon Castle, N 42° 21′, W. 45° 20′	30.28	769.1	85	29.4	71	wsw.	.....	.....	4	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Markland, S. 36° 47′, W. 92° 15′	30.38	771.6	59.4	15.2	100	nw.	.....	.....	4	.....	4	.....	.....	.....	.....	.....	.....	d. clouds.
Bkt. May Hulse, N. 11° 54′, W. 24° 48′	30.01	762.2	74.6	23.7	95	s.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	heavy rain.
S. S. Oamarn, S. 30° 36′, E. 11° 57′	30.27	768.8	62.5	16.9	83	sse.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Pole Star, N. 33° 25′ W. 40° 51′	30.41	772.4	83.8	28.8	87	ene.	.....	.....	1	.....	4	.....	.....	.....	.....	.....	.....	blue sky.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 26° 56′, W. 114° 27′*†	29.95	760.7	64	17.8	88	calm	.....	.....	0	.....	fg.	.....	.....	.....	.....	mod.	w.	foggy.
CROMWELL LINE.																		
S. S. Hudson, N. 28° 30′ W. 79° 40′ †	30.23	767.8	82	27.8	.....	se.	.....	.....	3	.....	3	.....	e.	0	0	mod.	e.	fair.
CUNARD LINE.																		
S. S. Gallia, N 41° 38′, W. 51° 42′	30.20	767.1	79	26.1	95	sw.	.....	.....	4	.....	5	.....	sw.	0	0	sm'h	.....	misty.
S. S. Marathon, N. 49° 00′, W. 29° 40′	30.04	763.0	58	14.4	.....	nnw.	.....	.....	3	.....	9	.....	nnw.	8 h'r	8 h'r	mod.	wnw.	overcast.
S. S. Scythia, N. 44° 07′, W. 44° 44′	30.18	766.6	69.5	20.8	93	wsw.	.....	.....	1	.....	10	.....	.....	shr's	shr's	sm'h	.....	foggy.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N. 41° 30′, E. 56° 46′†	30.07	763.7	77.0	25.0	.....	sw.	.....	.....	2	c	.....	sw.	.....	0	0	sm'h	sw.	clear.
GUION LINE.																		
S. S. Arizona, N. 45° 33′, W. 42° 27′	30.13	765.3	65	18.3	.....	wnw.	.....	.....	2	.....	10	.....	.....	4 h'r	4 h'r	sm'h	.....	overcast.
S. S. Wisconsin, N. 44° 25′, W. 45° 20′	30.16	766.1	68	20.0	90	w.	.....	.....	2	.....	10	.....	.....	3 h'r	3 h'r	slight	w.	foggy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 48° 49′ W. 26° 31′†	30.00	762 0	.....	.....	.....	nw.	.....	.....	6	.....	3	.....	n.	0	0	h'vy	wnw.	foggy.
S. S. Cimbria, N. 47° 27′, W. 31° 24′	30.14	765 5	60	15.6	.....	nnw.	.....	.....	3	.....	3	.....	nw.	4 h'r	4 h'r	mod.	nw.	f. fr.
S. S. Gellert, N. 40° 30′, W. 62° 55′	30.24	768.1	78	25.6	.....	wsw.	.....	.....	3	.....	10	.....	wsw.	0	0	mod.	wsw.	covered.
S. S. Herder, N. 49° 10′, W. 12° 43′	29.92	759.9	66	18.9	.....	w.	.....	.....	3	.....	10	.....	wsw.	0	0	mod.	wsw.	covered.
S. S. Silesia, New York, N. Y.†	30.09	764.3	.....	.....	.....	se.	.....	.....	2	.....	5	.....	.....	0	0	.....	.....	fair.
S. S Wieland, N. 43° 53′, W. 46° 44′	30.26	768.6	68	20.0	.....	ssw.	.....	.....	2	.....	10	.....	ssw.	4 h'r	4 h'r	2	w.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 23° 00′, W. 39° 30′*†	30.48	774.2	74	23.3	.....	s.	.....	.....	5	.....	2	.....	ne.	0	0	sm'h	.....	clear
LEYLAND LINE.																		
S. S. Bulgarian, N. 51° 20′, W. 13° 58′*	29.72	754.9	.....	.....	.....	wsw.	.....	.....	6	.....	8	.....	wsw.	0	0	high	wsw.	
MALLORY LINE.																		
S. S. Colorado, New York, N. Y. †	30.19	766.8	72	22.2	.....	ne.	.....	.....	2	.....	3	.....	ne.	0	0	.....	.....	fair.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Brooklyn, N.Y.*†	30.22	767.6	78	25.6	82	nne.	.....	.....	1	.....	7	.....	.....	0	0	.....	.....	cloudy.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 49° 05′, W. 24° 35′*†	29.62	752.3	60.8	16.0	.....	w.	.....	.....	6	.....	6	.....	w.	0	0	r'gh	wnw.	stormy.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 7° 21′, W. 49° 50′	29.52	749.8	.....	.....	.....	ene.	.....	.....	3	.....	.....	.....	ssw.	0	0	sm'h	ne.	fine.
S. S. Glenapp, Hampton Roads, Va.†	30.13	765.3	.....	.....	.....	sw; nw.	.....	.....	2	.....	7	.....	var.	3 h'r	3 h'r	.....	.....	showery.
MORGAN LINE																		
S. S. New York, N. 24° 45′, W. 83° 25′ *†	30.18	766.6	84	28.9	.....	se.	.....	.....	3	.....	.....	.....	se.	0	0	small	se.	clear.
NATIONAL LINE.																		
S. S. Canada, N. 40° 36′, W. 63° 05′†	30.11	764.8	70	21.1	.....	w.	.....	.....	2	.....	9	.....	w.	0	0	sli't	nw.	fine.
S. S. Denmark, N. 40° 50′, W. 58° 33′	30.21	767.3	74	23.3	.....	sw.	.....	.....	4	.....	5	.....	wsw.	1 h'r	1 h'r	sli't	ssw.	
S. S. England, North river, N. Y.	30.17	766.3	.....	.....	.....	s.	.....	.....	2	.....	0	.....	.....	0	0	sm'h	.....	clear.
S. S. Erin, N. 40° 54′ W. 59° 22′	30.16	766.1	73	22.8	.....	wsw.	.....	.....	3	.....	4	.....	wsw.	0	0	sm'h	.....	
S. S. The Queen, N. 48° 33′, W. 15° 57′	29.79	756.7	59	15 0	.....	wsw.	.....	.....	7	.....	8?	.....	w.	0	0	long	w.	clear.?
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 25° 16′. W. 74° 00′†	30.24	768.1	81	27.2	.....	se.	.....	.....	4	.....	2	.....	sse.	1 h'r	1 h'r	g'ntle	sse.	fine.
S. S. Saratoga, N. 36° 03′. W 74° 35′†	30.36	771.1	78	25.6	86	ssw.	.....	.....	4	.....	10	.....	w.	2 h'r	2 h'r	sm'h	.....	cloudy.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y †	30.16	766.1	72	22.2	85	ne.	.....	.....	3	.....	5	.....	n.	0	0	.....	.....	fair.
S. S. City of Washington, N. 33° 52′, W. 75° 30′*†	30.25	768.3	80	26.7	.....	ssw.	.....	.....	4	.....	10	.....	ssw.	driz	driz	mod.	ssw.	squally.
NORTH GERMAN LLOYD.																		
S. S. America, N. 41° 39′, W. 48° 43′*	30.29	769.4	73.4	23.0	.....	wsw.	.....	.....	4	.....	0	.....	.....	0	0	mod.	wsw.	hazy.
S. S. Gen. Werder, N. 42° 56′, W. 48° 38′	30.25	768.3	.....	.....	.....	sw.	.....	.....	3	.....	10	.....	sw.	2 h'r	2 h'r	.....	.....	foggy.
S. S. Habsburg, N. 48° 55′, W. 24° 12′	29.91	759.7	60.8	16.0	.....	nnw.	.....	.....	5	.....	2	.....	nnw.	14 h'r	14 h'r	r'gh	nnw.	fair.
S. S. Hermann, N. 38° 35′, W. 70° 31′	30.19	769.8	73.4	23.0	.....	ne.	.....	.....	1	.....	8	.....	e.	1 h'r	1 h'r	mod.	sw.	heavy rain.
S. S. Neckar, N. 49° 50′ W. 11° 29′	29.88	758.9	56.5	13.6	.....	sw.	.....	.....	6	.....	10	.....	sw.	½ h'r	½ h'r	rg'h	wsw.	misty.
S. S. Ohio, Bremerhaven, Germany	29.95	760.7	.....	.....	.....	sw.	.....	.....	2	.....	2	.....	sw.	0	0	.....	.....	fair.
S. S. Rhein, N. 48° 06′, W. 27° 51′	30.02	762.5	.....	.....	.....	nnw.	.....	.....	4	.....	3	.....	nw.	0	0	long	nw.	fair.
S. S. Saller, N. 50° 39′ W. 0° 20′	29.88	758.9	55.4	13.0	.....	s.	.....	.....	5	.....	10	.....	s.	3 h'r	3 h'r	mod.	s.	raining.
S. S Strassburg, N. 38° 42′, W. 74° 37′	30.17	766 3	73.0	22.8	100	calm	.....	.....	0	.....	10	.....	nw.	0	0	sm'h	.....	covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 48° 07′, W. 167° 56′.*†	30.06	763 5	52	11.1	93	sse.	.....	.....	6	.....	10	.....	sse.	0	0	sm'h	.....	foggy.
S. S. Belgic, San Francisco, California†	30.06	763.5	60	15.6	70	sw.	.....	.....	1	.....	10	.....	wsw.	.....	.....	.....	.....	foggy
S. S. Gaelic, N. 42° 35′, W. 157° 25′†	30.64	778 2	64	17.8	89	calm	.....	.....	0	.....	0	.....	.....	.....	.....	sm'h	.....	foggy.
S. S. Oceanic, Yokohama, Japan*	29.73	755.1	78	25.6	86	ssw.	.....	.....	3	.....	5	.....	var.	.....	.....	.....	.....	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.27	768.8	.....	.....	.....	sw.	.....	.....	1	.....	3	.....	sw.	0	0	.....	.....	clear.
S. S. City of Columbus, New York, N. Y.†	30.14	765.5	.....	.....	.....	n.	.....	.....	2	.....	10	.....	.....	0	0	.....	.....	overcast.
S. S. Seminole, N. 38° 40′, W. 73° 50′ †	30.22	767.6	76	24.4	86	sse	.....	.....	1	.....	10	.....	ene.	0	0	long	ssw.	cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, San Francisco, Cal. †	30.23	767.8	53	11.7	86	s.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	misty.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal †	29.97	761.2	54	12.2	93	w.	.....	.....	1	.....	10	.....	w.	.....	.....	.....	.....	cloudy.
S. S. City of Chester, Santa Barbara, Cal*†	29.94	760.5	60	15.6	94	se.	.....	.....	2	.....	5?	.....	s.	.....	.....	.....	.....	cloudy?
S. S. Idaho, N. 50° 33′, W. 120° 33′†	30.12	765.0	52	11.1	79	wnw.	.....	.....	3	.....	5?	.....	.....	.....	.....	.....	.....	overcast?

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
PACIFIC COAST STEAMSHIP COMPANY.—Continued.																		
S. S. State of California, N 38° 19', W. 123° 10'†	29.87	758.7	51	10.6	?	nnw.			5		10		nw.			sm'h	nw.	foggy.
S. S. Victoria, Nanaimo, Vancouver's I'd†	29.90	759.5	67	19.4	90	nw.			2		0			0	0			clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	29.81	757.2	53	11.7	86	w.			5		8		w.	0	0			hazy.
S. S. City of New York, S. 34° 12', E. 176° 40' †	29.65	753.1	58	14.4	76	ssw.			4		8		ssw.	0	0	mod.	sw.	squally.
S. S. City of Pekin, N. 38° 59' W. 125° 36'†	30.31	769.9	58	14.4	82	n.			5		10		nnw.	0	0	mod.	n.	cloudy.
S. S. City of Rio de Janeiro, N. 7° 14', W. 79° 50'*†	30.10	764.5	78	25.6	86	n.			2		9		n.	4 h'r	4 h'r	sm'h		threatening
S. S. City of Sydney, S. 20° 01', W. 173° 08'†	29.93	760.2	78	25.6	82	n.			5		5		nw.	0	0	mod	nw.	fair.
S. S. City of Tokio, N. 35° 26', E. 139° 39'†	29.88	758.9	78	25.6	86	wsw.			8		5		wsw.	0	0			fine.
S. S Colon, N. 29° 42', W. 73° 56'†	30.29	769.4	83	28.3		e.			3		1		ene.	0	0	sm'h	e.	clear.
S. S. Colima, N. 20° 10', W. 105° 39'†	29.98	761.5	81	27.2	70	n.			3		8		nnw.	0.02	0.5	small	wnw.	cloudy.
S. S. Costa Rica, Panama Panama*†	30.04	763.0	80	26.7	100	nnw.			1		4		calm	0	0	sm'h		
S. S. Grenada, N. 31° 18', W. 119° 40'†	30.02	762.5	55	12.8	?	nw.			2		4		n.	0	0	sm'h	nw.	clear.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, N. 36° 22', W. 71° 04'	30.06	763.5	79	26.1		sw.			5		10			3 h'r	3 h'r	mod.	w.	rainy.
S S. Bermuda, N. 17° 47', W. 60° 45'†	30.11	764.8	86	30.0		e.			2		9		e.	3 h'r	3 h'r	gentle	e.	
RED STAR LINE.																		
S. S. Belgenland, N. 39° 53', W. 56° 33'†	30.44	773 2	81	27.2	87	wsw.			6		9			0	0	mod.	n.	
S. S. Rhynland, Jersey City, N. J.	30.36	771.1	70	21.1	80	calm			0		4		s	0	0			fair.
S. S. Switzerland, N. 49° 42', W. 12° 22'†	29.84	757.9				wsw.			4		10		wsw.	3 h'r	3 h'r	long	w.	cloudy.
S. S. Vaderland, N. 45° 34', W. 33° 21'	29.96	761.0	64	17.8	89	nw.			3		10		wnw.	8 h'r	8 h'r	sm'h	wsw.	overcast.
ROTTERDAM LINE.																		
S. S. P. Caland, N. 40° 29' W. 69° 30'	30.14	765.5	75.6	24.2	92	ssw.			3		8 n					sm'h	sw.	
S. S. W. A. Scholten, New York, N. Y.	30.17	766.3	72.4	22.4	85	sw.			3		10		sw.	0	0			
STATE LINE.																		
S. S. State of Florida, Larne Isld., Ireland	29.58	751.3	68	20.0		sw.			4		9		ssw.	sh'rs	sh'rs			clear.
S. S. State of Indiana, N. 52° 30', W. 24° 00'†	29.64	752.8	53	11.7		nw.			7		6		nw.	6 h'r	6 h'r	long	nw.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.18	766.6	67.1	19.5		nne.			2		10		nne.	4 h'r	4 h'r			covered.
WARREN LINE.																		
S. S. Iowa, N. 44° 20', W. 39° 38'*†	30.30	769.6	69	20.6		sw.			4		10		sw.	0	0	sl't	wsw.	cloudy.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 49° 34', W. 10° 56'	29.85	758.2							5		8		w.	0	0	5	w.	cloudy.
WHITE STAR LINE.																		
S. S. Adriatic, N. 40° 40', W. 61° 28'†	30.31	769.9	77	25.0	95	wsw.			4		5		w.	2 h'r	2 h'r	gentle	sw.	fair.
S. S. Baltic, N. 42° 03' W. 52° 42'†	30.31	769.9	69	20.6	95	sw.			2		5		w.	1 h'r	1 h'r			misty.
S. S. Britannic, N. 49° 52', W. 23° 59'†	29.92	760.0	56	13.3	81	nw.			6		8		nw.			high	nw.	raining.
S. S. Celtic, Liverpool, Engt	29.69	754.1	64	17.8	94	wsw.			4		10		wsw.	sh'rs	sh'rs			cloudy.
S. S. Germanic, N. 40° 50', W 67° 00'†	30.25	768.3	62	16.7		calm			0		7		w.			sm'h		misty.
S. S. Republic, N. 48° 49', W. 30° 11'†	30.19	766.8	57	13.9	75	wnw.			5		5		nw.	0	0	mod	nw.	d clouds.
WINSOR LINE.																		
S. S. Catherine Whiting, Providence, R. I†	30.18	766.6	68	20.0		calm			0					0	0			
MISCELLANEOUS.																		
Schr. Ajax, N. 27° 36' W. 89° 00'†	30.18	766.6				se.			1		5		se.	2 h'r	2 h'r	sm'h	se.	fair.
Bk. Alpha, N. 39° 40', W. 65° 00'†	30.11	764.8	78	25.6		wsw.			3		8		w.	1 h'r	1 h'r	sm'h		fair.
Schr. Annie Lewis, Aransas Pass, Texas†	30.21	767.3	83	28.3		se.			1		0			0	0	long		clear.
Bk. Anna Thorman, S. 38° 36', E. 39° 56'	30.11	764.9	41.7	5.4	80	ssw.			8		7 n		ssw.	hail	hail	high	ssw.	fair.
S S. Antonio Lopez, N. 19° 39', W. 62° 40'	30.20	767.1	76.5	24.7	95	ese.			3		10			light	light			thund'r st'm.
Bk. Argonaut, N. 48° 08', W. 32° 43'*†	30.20	767.1	57.7	14.3		nw.			1		4		nw.	3 h'r	3 h'r	mod.	nw.	fair.
Schr. Asa Eldridge, Havana, Cuba, W. I.†	30.18	766.6				ese.			3		2		ene.	0	0			fair.
S. S. Burswell, N. 45° 10', W. 17° 18'*†	30.04	763.0	72	22.2		wsw.			4		10		wsw.	8 h'r	8 h'r	mod	nw.	light rain
Bk. Cato, N. 58° 06', E 6° 08'*†.	30.20	767.1				sse.			6		8		sse.	0	0	mod.	sw.	cloudy.
Bk Celestina, S. 23° 01' W. 28° 20'*†	30.34	770.6				se.			4		1		ese.	0	0	long	s.	fine.
Schr. C. R. Flint, N. 25° 40', W. 84° 19'†	30.33	770.4	80	26.7		se.			1		5		se.	0	0	mod.	sse.	fair.
S. Cornelius, N. 41° 40', W. 39° 14'*†	30.56	776.2	73	22.8		w.			2		0			0	0	sm'h	nw.	clear.
S. S. D. J. Foley, Port Antonio, Jamaica, W. I†	30.00	762.0				se.			4		3		se.	2 h'r	2 h'r			clear.
Schr. Edith R. Seward, N. 21° 12', W. 69° 15'*†	30.20	767.1	84	28.9		ese.			2		3		ese.	20 minutes		mod.	ese.	fair.
S. E. J. Spicer, New York. N. Y*	30.18	766.6	72	22.2		n.			2		7		W.	0	0			
Bk. E. L. Pettingill, N. 32° 20', W. 140° 34'†	30.40	772.1				ne.			1		0			0	0	sm'h	w.	
S Enoch Train, N. 42° 22', W. 41° 40'*†	30.42	772 7				wsw.			2		0			0	0	sm'h		fine.
Bk. Essex, S. 37° 14', E. 30° 24'*†.	30.40	772.1	55	12.8		ssw.			6		4		sw.	1 h'r	1 h'r	h'vy	wsw.	squally.
Bk. Franklin, N. 39° 28', W. 62° 00'*†	30.54	775 7				sw.			3		5		wsw.	0	0	sm'h		fair.
Bk. Freya, Annapolis, Md						nw.			4		0			3 h'r	3 h'r			clear.
S. Grecian, Hong Kong, China*†	29.75	755.6	86	30.0		calm			0		1		e.	0	0			clear.
Bk Hattie G. McFarland, Philadelphia, Pa*†	30.20	767.1	70	21.1		n.			1		7		n	0	0			
S. Hedwig, N. 43° 22', E. 15° 15'	29.85	758.1	76.8	24 9	94	nw.			2		2		nw.	0	0	sm'h		
Bk. Horace Scudder, N. 14° 52', W. 58° 00'†	30.17	766.3	83	28.3		ene.			4		5		e.	10 minutes		mod.	e.	blue sky.
S. Ivy, S. 1° 20' W. 129° 38'†	30.13	765.3	71	21.7		e.			5		1		ese.	0	0	mod.	se.	clear.
S. Ismir, S. 35° 26' E. 92° 30'†	30.32	770.1				nw.			5		9		nw.	2 h'r	2 h'r	swell	w.	hazy.
Schr. James Slater, N. 8° 22', W. 51° 49'*†.	30.28	769.1	83	28.3		se.			3		5		se.	2 h'r	2 h'r	h'vy	ne.	squally.
Schr. Jennie N. Huddell, Gardiner, Maine†	30.25	768.3	70	21.1	84	wsw.			3		2		sw.	0	0			fair.
Bk. Johanne, N. 45° 50', W. 34° 10'*†.	30.20	767.1	64	17.8		W.			5		8		wnw.	h'vy	h'vy	long	w.	hazy.
Schr. John L. Thomas, N. 24° 30', W. 80° 02'*†	30.22	767.6				e.			2		1		ese.	c	0	short	ene.	clear.
Bg. John Wesley, N. 20° 00' W. 75° 52'†	29.90	759.4				ene.			1		1			0	0	short	se.	clear.
Bk. Joseph A. Ropes, S. 13° 15', W. 32° 30'*†	30.22	767.6	79	26.1	82	ese.			5		4		ese.	0	0	mod.	ese.	fair.
Bkt. Josephine, N. 29° 10' W. 74° 48'†	30.22	767.6	85	29.4	68	ese.			4		1		ese.	0	0	mod.	ese	clear.
Bkt. Kryolith, N. 45° 14', W. 57° 47'*†.	30.08	764.0				wsw.			3		2		wsw.			sm'h		clear.
Light House Tender, Laurel. Key West, Florida†	30.16	766.1	84	28.9		ese.			2		5		ese	2 h'r	2 h'r			fair.
Bk. Liberia, N. 15° 58', W. 41° 45'.*..	30.02	762.5	78	25.6	82	ene.			4		5		ene.	0	0			
S. S. Madrid, N. 44° 24', W. 41° 39'*†	30.38	771.6	70	21.1		wsw.			3		10		nw.	2 h'r	2 h'r	mod.	wnw.	drizzling.
S. S. Nebo, N. 36° 00', W. 6° 20'*†.	30.15	765.8				ene.			2		0			0	0	sm'h		clear.
S.Paramita, N. 6° 20', W. 121° 01'†	29.86	758.4	81	27.2		sse.			4		2		se.	1 h'r	1 h'r	short	sse.	clear.
Bk. Sunbeam, N. 38° 48', W. 75° 02'†.	30.26	768.6	72	22.2	90	nne.			4		10		ne.	0	0	light		cloudy.
S. S. Sunbeam, Odessa, Russia	29.72	754.9	90	32.2	66	e.			1		4		ene.					d. clouds.
S. Sovereign of the Sea, S. 12° 11', W. 34° 02'*†	30.08	764.0	79	26.1	90	se.			5		2		se.	0	0	r'gh	s.	clear.
Bg. Teneriffe, N. 23° 20', W. 80° 10'	30.07	763.8				sse.			1									
Bk. Truro, N. 43° 50', W. 47° 20'*†	30.15	765.8				sw.			2		10			0	0	sm'h		foggy.
U. S. F. C. S. S. FishHawk, N. 37° —', W. 75° 40'†	30.33	770.4	77	25.0	90	w.			2		9		calm	0	0	sm'h	se.	cloudy.
S. S. Victoria J. Peed, Inagua, W. I*†	30.09	764.3				ene.			5		3							
Schr. Viola Reppard, Baltimore, Md†	30.15	765.8	77	25.0		calm			0		0			0	0			clear.
Bk Wm. Wilcox, Buenos Ayres, Argentine Republic*†	30.52	775.2	60	15.6		n.			3		0			0	0			clear.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 23, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.02	762.5	71.8	22.1	76	s.			1		1			0	0	very fair	Bouvier.
Algiers			30.03	762.7	77.7	25.4	67	n.			1		0			0	0	clear	Nicolas.
La Galle			29.96	761.0	86.4	30.2	71	n.			2		3			0	0	pretty fair	Fonfrède.
Tunis			29.94	760.5															Jacques.
Saida			30.07	763.8	87.4	30.8	28	ne.			2		0			0	0	clear	Perès.
Tebessa			30.05	763.2	90.0	32.2	28	wnw.			2		1			inap.	inap.	very fair	Derché.
Geriville					90.3	32.4	5	n.			4		0			0	0	clear	Louchamp.
Laghouat			30.10	764.5	96.4	35.8	34	w.			1		0			0	0	clear	Abraham.
Biskra			30.07	763.8	99.7	37.6	24	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.78	756.4	29.88	758.9	53.5	11.9	66	n.	21	9.4			0			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.35	745.6	29.88	759.0	70.9	21.6	76	w.			1		10			0.012	0.3	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.15	740.3	29.87	758.8	80.2	26.8	63	w.	1.3	0.6			7			0.016	0.4		Dr. Wierzbiski.
Eperies	28.99	736 4	29.82	757.3	84.2	29.0	55	calm			0	0	8 s			0	0		Julius Mikolik.
Gratz	28.64	727.5	29.84	757.9	75.6	24.2	75	s.			1		7			0.091	2.3		Andreas Rospini.
Hermannstadt	28.41	721.5	29.73	755.1	86.7	30.4	49	ese.			1		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.58	726.0	29.85	758.3	76.6	24.8	72	ne.			1		7			0	0	clearing	The Staff.
Lemberg	28.90	734.1	29.82	757.5	83.8	28.8	45	se.			1		0			0	0		Dr. T. Stanecki.
Pola	29.75	755.7	29.86	758.4	83.5	28.6	57	wnw.			2		5			0	0		I. R. Hydrographic Office.
Szathmar	29.32	744.6	29.76	755.8	88.3	31.3	39	n.			2		1			0	0		Joseph Midlinszky, S. J.
Szegedin	29.49	749.0	29.75	755.6	87.1	30.6		ne.			1		0			0	0		Karl Stancel.
Trieste	29.78	756 4	29.88	759.0	83.1	28.4	40	e.			3		2			0	0		Royal Academy.
Vienna	29.20	741.7	29.88	758.9	79.5	26.4	48	nnw.			1		5			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.36	745.7	29.46	748.3	59.0	15.0	79	sse.	19	8.5			4			0.155	3.9	blue sky	W. Boswell
Armagh, Observatory	29.07	738.4	29.30	744.2	55.4	13.0	86	sse.	12	5.4						blank	blank		S. Oall.
Bidston, Liverpool Obs'y					61.9	16.6	63	ssw.	16	7.2			4					d. clouds	John Hartnup.
Bolton, Sharples	28.98	736.1	29.50	749.3	52.7	11.5	90	sw.	12	5.4			9					raining	Thomas Mackereth, Ston.
Bradford, Yorkshire																0.08	2.0		McLandsborough & Pres.
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	78.0	25.6	90	ne.			2		8					overcast	Corpl. J. Surgenor, A. H. C.
Cardington			29.56	750.8	68.0	20.0	66	sw.			3.0		6					d. clouds	John McLaren.
Chatham, School M. E.	29.50	749.3	29.62	752 3	67.3	19.6	66	sw.			3		4			blank	blank	d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.43	747.5	29.65	753.1	61.7	16 5	68	sw.			6		6					squally	The Staff.
Fort Napier, Natal	27.88	708.1	30.10	764.5	71.2	21.8	32	n.			1		3					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.73	755.1	29.96	761.0	82.0	27.8	74	w.			0		5					drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	29.93	760.2	29.98	761.5	79.5	26.4	73	se.			1		0					blue sky	Opl. O. Baldwin.
Glasgow, Observatory	29.11	739.4	29.31	744.5	56.7	13.7	77	sse.			5		8					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.43	747.5	29.60	751.8	68.0	20.0	60	sw.			4		6					d. clouds	The Staff.
Guernsey	29.40	748.3	29.75	755.6	63.0	17.2	70	w.			4		2					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.55	750.6	29.59	751.6	66.8	19.3	66	sw.	25	11.2			7					d. clouds	The Staff.
Leicester, Museum	29.25	742.9	29.59	749.3	60.2	15.7	87	sw.			2		7					d. clouds	J. C. Smith.
Malta, Mediterranean	29.79	756 7	29.89	758 4	82.4	28.0	70	n.			2		1					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.15	765.8	30.19	766.8	84.5	29.2	70	se.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.03	737.3	29.53	750.0	63.5	17.5	78	sw.			3		5					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.35	745.5	29.58	751.3	62.7	17.1	65	sw.			5		3					squally	The Staff.
Plymouth	29.58	751 3	29.65	753.1	64.2	17.9	73	sw.			4		3					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.44	747.8	58	14.4	76						5					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey																			W. H. Lyne.
Sheffield	29.25	742.9	29.52	749.8	64.0	17.8	76	sw.			1		8			0.01	0.3	drizzling	W. F. Cooper.
Silloth Rectory	29.40	746.7	29.43	747.5	61.2	16.2	71	ssw.			4		5			0.470	11.9	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.52	749.8	53.0	11.7	90	sw.	8	3.6			10					raining	Rev. S. J. Perry.
Strathfield Turgiss	29.41	747.0	29.62	752.3	65.3	18.5	56	w.			3		4					d. clouds	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.64	752.8	29.65	753.1	66	18.9	68	sw.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.38	746.2	29.40	746.7	58.6	14.8	76	w.	27	12.1			7			blank	blank	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.89	759.2	29.93	760.2	66	18.9	79	sw.	6	2.7		0	2 s		sw.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.87	758 7	29.93	760 2	65	18.3	78	sw.	6	2.7		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	29.90	759 4	29.92	760.0	57	13 9	83	w.	10	4.5		2 k	0	w.		0.18	4.6	clear	J. McWilliams.
Fort Garry, Manitoba*	29.01	736.8	29.80	756.9	64	17.8	84	s.	24	10.7		2 cs	0	w.		0	0	fair	James Stewart.
Halifax, N. S*	29.88	758.9	30.00	762.0	62	16.7	87	sw.	1	0.4		10k;ck	0			0	0	cloudy	A. Allison.
Kingston, Ontario*	29.78	756.4	30.10	764.5	68	20.0	73	w.	5	2.2			10 k		w.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.85	758.2	30.05	763.3	66	18.9	81	w.	12	5.4		0	5 ks		nw.	inap.	inap.	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.56	750 8	30.23	767.8	66	18.9	73	w.	6	2.7		2 cs	2 ks	n.	n.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.51	749.5	30.19	766.8	63	17.2	89	calm	0	0		0	0			0.37	9.4	clear	H. Morgan.
Port Stanley, Ontario	29.56	750.8	30.20	767.1	60	15.6	93	w.	4	1.8		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.71	754.6	30.02	762.5	60	15.6	93	calm			0		fg.			0.57	14.5	foggy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.63	752.6	30.08	764.0	64	17.8	84	w.	3	1.3		5 ck	0	nw.		0.01	0.3	fair	W. H. McIntyre.
Saugeen, Ontario*	29.47	748.5	30.16	766.1	68	20.0	78	calm	0	0		0	0			0	0	clear	
St. Andrews, N. B	29.93	760.2	29.98	761.5	64	17.8	83	calm	0	0		0	0			0	0	clear	
Sydney, C. B*	29.87	758.7	29.93	760.2	70	21.1	70	sw.	6	2.7		2 c	0	w.		0.01	0.3	clear	T. C. Hill, C. E
Toronto, Ontario*	29.81	557.2	30.18	766.6	69	20.6	57	nw.	7	3.1		2 cs	0	w.		inap.	inap.	clear	Magnetic Observatory.
Yarmouth, N. S*	29.97	761.2	30.04	763.0	57	13.9	93	calm	0	0		3 k	0	sw.		0	0	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.08	713.2	30.25	768.3	57.0	13.9	87	calm			0	0	0			0	0	clear	Wm. Wylie.
St. Johns, Newfoundland	29.92?	760.0?	30.16?	766.1?	67?	19.4?	81	sw.	2	0.9		0	0			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.11	764.8	30.14	765.5	61.6	16.4	88	ene.	18.7	8.4		0	1 k			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.10	764.5	30.14	765.5	62.5	16.9	74	s.	23	10.3		2	2			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
CHINESE (*Sub-series*).																			
Hankow							88	sse.	16.3	7.3		1 c	0			0	0	clear	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.64	752.8	29.67	753.5	82.0	27.8													M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.83	757.7	29.86	758.9	70.5	21.4	57	s.	9	4			0						Oversergent Fischer.
Fanöe	29.74	755.4	29.76	755.9	65.1	18.4	87	w.			2		10					raining	Overloerer Lauridsen
Godthaab, Greenland	29.55	750.6	29.60	751.7	51.1	10.6	81	nne.			4		2			0.008	0.2		S. Kleinschmidt.
Stykkisholm, Iceland	29.61	752.2	29.66	753.3	47.8	8.8	67	w.			6		3						A. O. Thorlacius.
Thorshavn	29.36	745.7	29.39	746.6	51.6	10.9	61	ne.	9	4			10					raining	Overloerer Bergh.
Vestervig	29.66	753.4	29.75	755.7	61.3	16.3	88	ssw.			4		10					lightning	Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.39	746.4	30.05	763.2	73.8	23.2	65	calm			0		kn		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.26	743.2	29.81	757.2	68.0	20	89	s.			2		kn		n.	0.24	6.		M. Nicot, Director.
Arras, Engineer School	29.68	753.9	29.93	760.2	62.8	17.1	98	ssw.			3		10 kn		sw.	0.335	8.5	covered	M. Fénéon, Command't.
Avignon, Normal School	29.83	757.6	29.91	759.6	85.3	29.6	43	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.35	745.6	29.89	759.1	73.2	22.9	55	sw.			2		10		w.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.55	750.6	29.81	757.1	67.8	19.9	51	wsw.			3		5		wsw.	0.004	0.1	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.02	737.1	29.87	758.8	76.6	24.8	56	ssw.			1	0	2 k		w.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.70	754.4	29.95	760.8	72.5	22.5	56	ssw.			1		8			0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.33	744.9	29.85	758.3	75.2	24	50	sw.			4	c	0	sw.		0	0		M. Malet, Director.
Brest, Naval Observatory	29.61	752.0	29.85	758.2	68.0	20.0	67	wsw.			3		4		wsw.	0.244	6.2		M. de Kermaree, Dir.
Caen, Normal School	29.93?	760.2?	30.01?	762.2?	65.5	18.6	59	w.			2		5		n.	0.016	0.4	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.59	751.5	29.89	759.3	68.9	20.5	58	s.			2		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.35	745.4	29.88	759.0	66.6	19.2	81	w.			1		10					raining	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.61	726.7	29.91	759.7	75.2	24.0	53	w.			2	clc	8 k			0	0	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.12	739.6	29.93	760.3	78.1	25.6	44	sw.			1		5		sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.06	738.1	29.90	759.4	73.2	22.9	58	s.			2		5 kn	s.	s.	0	0	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.43	696.6	29.81	757.2	81.7	27.6	33	sw.			2	1	2 k		sw.	0	0		M. Jeanglirard, Director.
Gréasque, du Rhone	28.81	731.8	29.87	758.6	85.1	29.5	22	nw.			2		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.16	740.6	29.89	759.1	78.4	25.8	56	nw.			2	0	2 k			0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.37	720.7	29.88	759.0	69.8	21	57	w.			1		kn		w.	0.28	7.		M. Rivoire, Director.
Lamballe, Normal School	29.52	749.8	29.79	759.6	67.6	19.8	45	w.			3		5		w.	0.020	0.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.43	747.6	29.97	761.3	78.1	25.6	43	sw.			4		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.75	755.6	29.85	758.2	64.0	17.8	88	w.			1		5	n.	w.	0.197	5.0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.91	734.4	29.93	760.2	76.6	24.8	42	ese.			1		k		w.	0	0		M. André, Director.
Mans, Normal School	29.53	750.0	29.83	757.7	64.6	18.1	91	w.			4		8		sw.	0.08	2.	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.66	753.3	29.92	760.0	74.3	23.5	57	w.			2.3		0			0	0		M. Stephan, Director.
Montlouis	24.89	632.2	29.73	755.2	67.1	19.5	57	e.	15.0	6.7			8	ne.		0	0		M. Cave, for Dr. Flues.
Montpellier, Normal School	29.77	756.1	29.89	759.2	88.9	31.6	34	wsw.			2		0			0	0	clear	M. Gaizin, Director.
Nancy, Normal School	29.34	745.2	30.10	764.5	71.2	21.8	59	ssw.			1		kn		w.	0	0		M. Hasse, Director
Nantes, Observatory	29.73	755.2	29.89	759.3	68.7	20.4	68	wsw.			2-3		10 n		wsw.	0.248	6.3		M. Larocque, Director.
Perpignan, Observatory	29.84	757.8	29.94	760.4	84.2	29.0	35	s.	7.4	3.3			0			0	0		Dr. Flues, Director.
Pic-du-Midi, Summit	21.37	542.8			50.0	10.0		sw.			1		5		sw.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.98	736.0	29.98	761.6	84.2	29	34	n.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.17	639.3			49.5	9.7	100	wsw.			4		10			0	0	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	30.00	762.0	30.03	762.8	65.8	18.8	92	ssw.			3		10		ssw.	1.06	27.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.78	756.4	29.99	761.8	65.8	18.8	94	sw.			2		10			0.386	9.8	light rain	M. Mouillot, Director.
Rodez, Normal School	27.86	707.6	29.93	760.3	72.3	22.4	68	w.			1		5			0	0	fair	M. Seger, Director.
Rouen, Normal School	29.71	754.6	29.76	755.8	67.3	19.6	85	sw.			1		10	ssw.		0.24	6.	covered	M. Brotier.
Saint Maur, Observatory	29.67	753.6	29.84	757.8	66.4	19.1	83	sw.			2		10		sw.	0.043	1.1		M. Renou, Director.
Toulouse, Observatory	29.34	745.1	30.05	763.5	78.4	25.8	55	ne.			1		2		nw.	0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.67	753.6	29.85	758.1	69.8	21.0	80	sw.			1		10	sw.	sw.	0.031	0.8	rainy	M. de Tastes.
Versailles, Observatory	29.34	745.3	29.84	757.8	65.8	18.8	86	sw.			2					0.098	2.5		Dr. A. Berigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.56	750.8	29.85	758.2	65.3	18.5	96	ssw.			3		10		sw.	0.004	0.1	raining	M. Marié Davy, Director
GERMAN.																			
Ansbach	28.51	724.2	29.89	759.2	77.5	25.3	40	sw.			2		3	sw.		0	0		Prof. Jnedt.
Bamberg	29.08	738.6	29.93	760.2	78.3	25.7	46	ssw.			2	0	3 k		sw.	0	0		Prof. Dr. Hoh.
Berlin	29.84	757.9	30.01	762.2	80.4	26.9	44	s.			2		5			0	0		Prof. Dr. Arndt.
Breslau	29.44	747.7	29.97	761.2	77.4	25.2	49	nw.			1		5	sw.		0.236	6.0		Royal University Obs'y.
Carlsruhe	29.45	748.0	29.87	758.6	77.0	25.0	55	sw.			1		1	sw.		0.008	0.2		Albert Senz.
Cassel	29.14	740.2	29.85	758.3	81.0	27.2	50	s.			4		8	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.52	749.8	29.87	758.0	77.4	25.2	55	ssw.			1		6			0	0		Physical Society.
Friedrichshafen	28.50	723.8	29.88	758.9	70.9	21.6	73	sw.			3		2	w.		0.220	5.6		Wilhelm, Chief Tel.
Hamburg	29.73	755.2	29.83	757.6	75.9	24.4	54	ssw.			4		7			0	0		E. Preller.
Kiel	29.80	759.8	29.81	757.2	74.1	23.4	54	ssw.			4		9			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.50	749.2	29.90	759.4	81.1	27.3	39	ssw.			1		4			0	0		H. Leppig, Asst.
Magdeburg	29.69	754.0	29.86	758.5	80.8	27.2	43	ssw.			2	0	5 ks		wsw.	0	0		Dr. Assmann.
Memel	29.86	758.5	29.91	759.7	73.9	23.3	76	w.			3		10 k						Isermann
Munich	28.13	714.4	29.98	761.0	76.5	24.7	51	se.			2		3	w.		0.004	0.1		Dr. C. Lang.
Neufahrwasser	29.94	760.5	29.96	760.9	69.4	20.8	77	nne.			2		7			0.016	0.4		A. Lothes.
Neustadt, Palatinate	29.35	745.6	29.88	758.9	77.5	25.3	55	calm			0		5	n.		0	0		Dicknether.
Stuttgart	28.95	735.4	29.80	756.8	79.7	26.5	43	s.			3		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.97	761.2	29.99	761.8	80.8	27.1	52	se.			3		10 ks			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.38	746.2			86.0	30.0		ne.			1.0		6			inap.	inap.		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.48	748.7	29.53	750.0	86.7	30.4	80	wsw.	30.0	13.4			10	w.		0	0	overcast	
Deesa	29.02	737.2	29.49	749.1	81.7	27.6	80	sw.	18.8	8.4			8	wsw.		0.26	6.6	d. clouds	
Bombay	29.63	752.6	29.67	753.6	78.1	25.6	88	wsw.	21.0	9.4			10		w.	0.15	3.8	overcast	
Poona, Yarrowda	27.80	706.2	29.66	753.2	76.4	24.7	71	wsw.	22.0	9.8			8	w.	w.	0.01	0.3	d. clouds	
Trichinopoly	29.45	748.0	29.72	755.0	89.1	31.7	41	nw.	4.0	1.8			8			0	0	d. clouds	
Bellary	28.20	716.3	29.64	752.7	88.8	31.6	41	w.	17.1	7.6			6	sw.		0	0	d. clouds	
Belgaum	27.20	690.9	29.76	755.9	69.1	20.6	92	wsw.	8.0	3.6			8	e.	sw.	0.14	3.6	showery	
Lahore	28.69	728.7	29.41	749.9	91.0	32.8	67	ne.	4.0	1.8			6			0.40	10.2	d. clouds	
Roorkee	28.50	725.5	29.44	747.6	88.6	31.4	72	e.	4.4	2.0			8			0.41	10.4		
Agra	28.90	733.9	29.44	747.9	88.3	31.3	68	e.	3.5	1.6			4		e.	0	0	d. clouds	
Nagpur	28.52	724.3	29.55	750.5	80.5	26.9	78	w.	4.1	1.8			9		w.	0	0	d. clouds	
Jubbulpore	28.20	716.4	29.55	750.5	79.6	26.4	81	calm	4.0	1.8			10			0	0	overcast	
Lucknow	29.07	738.4	29.44	747.7	90.1	32.3	65	calm	2.7	1.2			4		e.	0	0	d. clouds	
Allahabad	29.18	741.0	29.48	748.9	82.1	27.8	93	calm	2.2	1.0			10			0.24	6.1	overcast	
Patna	29.31	744.4	29.49	749.0	86.6	30.3	82	calm	2.4	1.1			8	e.	e.	0.40	10.2	d. clouds	
Hazaribagh	27.46	697.6	29.44	747.8	79.3	26.3	85	n.	6.2	2.8			8		n.	0.69	17.5	thund'r storm	
Cuttack	29.34	745.2	29.42	747.3	78.6	25.9	85	sw.	3.7	1.6			10			1.85	47.0	drizzling	
Calcutta, Alipore	29.34	745.2	29.36	745.8	84.6	29.2	74	ese.	11.0	4.9			9		e.	0.60	1.5	d. clouds	
Dhubri	29.41	747.0	29.53	750.0	81.3	27.4	91	e.	5.7	2.6			9			1.33	33.8	gloomy	
Chittagong	29.45	748.0	29.54	750.3	80.0	26.7	87	ese.	6.6	3.0			9			0	0	d. clouds	
Sibsagar	29.15	740.3	29.47	748.6	90.7	32.6	68	ne.	1.3	0.6			0			0	c	blue sky	
Jeypore	28.03	712.0	29.45	747.9	82.9	28.3	77	sw.	7.0	3.1			6		sw.	1.01	25.6	d. clouds	
Zanzibar, Africa	29.98	761.5			80.1	26.7	58	se.	7.0	3.1			7			0	0	d. clouds	
ITALIAN.																			
Udine	29.49	749.0	29.88	758.9	84.2	29.0	42	e.	3.8	1.7			5			0.110	2.8		Prof. Giovanni Clodig.
Milan	29.40	746.7	29.89	759.2	84.7	29.3	42	ne.	3.8	1.7			7	ene.		0	0		Prof. Schiaparelli.
Padua	29.77	756.1	29.87	758.8	83.3	28.5	42	ese.	6.9	3.1			0			0.12	0.3		Prof. Dott. Lorenzoni.
Moncalieri	28.98	736.1	29.85	758.1	82.9	28.3	42	nw.	3.1	1.4			6	n.		0	0		Prof. P. F. Denza.
Genoa	29.71	754.7	29.90	759.4	78.8	26.0	69	se.	6.3	2.8			0			0	0		Prof. G. M. Garibaldi.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Mondovi	28.03	711.9	29.86	758.5	78.6	25.9	51	sw.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	29.81	757.1	29.85	758.3	78.4	25.8	70	ne.	9.8	4.4			2			0	0		Prof. Luigi Guidi.
Florence	29.62	752.4	29.86	758.4	87.3	30.7	36	sw.			2		2			0	0		Prof. Costantino Pitter
Leghorn	29.76	756.0	29.85	758.1	80.4	26.9	69	w.	1.8	0.8			0			0	0		Prof. P. Monte.
Rome	29.66	753.4	29.83	757.7	87.1	30.6	42	w.	9.8	4.4			0			0	0		Prof. P. S. Ferrari.
Lecce	29.59	751.6	29.83	757.7	81.1	27.3	86	n.	12.5	5.6			0			0	0		Prof. O. de Giorgi.
Cosenza	29.03	737.3	29.87	758.8	86.0	30.0	73	sse.	3.1	1.4			2	s.		0	0		Prof. D. Conti.
Cagliari	29.69	754.0	29.87	758.7	88.5	31.4	29	nw.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.67	753.6	29.91	759.7	83.1	28.4	55	ne.	6.9	3.1			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.79	756.6	29.83	757.7	83.7	28.7	70	e.	4.3	1.9			3	ne.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.35	745.5	29.85	758.2	82.6	28.1	66	sw.	5.6	2.5			3	nnw.		blank	blank		Prof. T. Brioschi.
Stelvio	22.32	566.8			55.8	13.2	59	sw.			2		3			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.32	566.8			58.3	14.6	71	n.			2		10			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.74	755.4	29.75	755.6	69.0	20.6	89	ssw.	19.8	8.8			9		sw.	0.540	13.7	overcast	
Hiroshima, I. M. Obs'y					78.0	25.6	90	sw.	0	0			10ksck			0.308	7.8	covered	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.78	756.4	29.94	760.5	80.4	26.9	83	sw.	2.8	1.2			9 ck;s		sw.	0.021	0.5	cloudy	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.71	754.5	29.90	759.4	80.2	26.8	87	s.	7.8	3.5		0	9 ck		s.	0.720	18.3	cloudy	S. Takehayashi.
Nemuro	29.78	756.4	29.85	758.2	60.0	15.6	80	se.	3.0	1.3		10	0			0	0	foggy	
Niigata	29.88	758.9	29.91	759.7	75 0	23.9	89	sse.	3.2	1.4		1 ck	1 s			0.070	1.8	fair	M. Morita.
Nobiru	29.86	758.3	29.87	758.7	75.4	24.1	95	nnw.	2.7	1.2		0	2 ck			0.105	2.7	fair	H. Midzushina.
Osaka	29.87	758.7	29.88	758.9	79.2	26.2	92	w.	1.7	0.8		1 c	6 s;k		w.	0.084	2.1	fair	
Sapporo					67.5	19.7	96	se.	13.2	5.9			8			0.028	0.7	cloudy	
Tokei Obs'y, Yeddo	29.85	758.2	29.92	759.9	79.3	26.3	82	ssw.	13.1	5.9			9 n;ck		w.	0.005	0.1	light rain	The Staff.
Wakayama	29.90	759.4	29.95	760.7	80.5	26.9	84	ssw.	12.0	5.4		0	2		ssw.	0.060	1.5	fair	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.85	758.2	30.04	763.0	73.6	23.1	75	wsw.	9.0	4.0		0	8 k;n		w.	0	0	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.78	603.8	30.00	761.8	58.1	14.5	73	ene.	7.4	3.3		4 c	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.00	762.0	61.9	16.6	78	ese.			1	4 c	1 k	se.		0	0	½ cloudy	Prof. M. Leal.
Mazatlan	29.75	755.7	30.01	762.2	78.5	25.8	93	ene.	1.6	0.8		2 cs	3 n	ene.	ese.	0.059	1.5	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.22	589.7	30.26	768.6	55.9	13.3	83	calm	0	0		2 c	3 k			0.473	12.0	cloudy	The Staff.
Morelia	24.35	618.5	30.50	774.6	56.1	14.5	67	se.			2	6	2	e.	se.	0.134	3.4	cloudy	M. Tena, M. D.
Orizaba	26.18	664.9	30.11	764.9	64.8	18.2	88	calm	0	0		6	2	ne.	e.	0.284	7.2	cloudy	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.07	611.5	30.08	763.9	62.4	16.9	82	wnw.			1	5c	0	e.		0	0	½ cloudy	M. V. de Leon, M. E
Puebla, Catholic Institute	23.47	596.1	30.21	767.4	53.6	12.0	84	ne.	2.7	1.2		0	0			0.063	1.6	clear	Prof. P. Spina.
San Luis Potosi	24.34	618.3	30.28	768.9	67.4	19.7	54	e.				0	7		e.	0	0	cloudy	G. Barroeta, M. D
Zacatecas	22.78	576.5	30.32?	771.0?	58.0	14.4	85	n.	8.2	3.6		0	0			0	0	fine	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	29.76	755.9	29.76	755.9	64.4	18.0		ssw.			4					0.118	3.0		
Groningen	29.71	754.6	29.76	756.0	66.9	19.4		s.			4					0.146	3.7		
Helder	29.72	755.0	29.72	755.0	63.7	17.6		ssw.			1					0.276	7.0		
Hellevoetsluis	29.76	755.9	29.76	755.9	63.9	17.7	84	sw.			3					0.087	2.2		
Utrecht	29.73	755.1	29.78	756.3	68.4	20.2	69	ssw.			4		8			0.106	2.7	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.52	749.9	29.59	751.5	64.4	18.0	63	s.	20	9			10			0.780	19.8	raining	
Brono	29.61	752.1	29.65	753.1	67.6	19.8	72	calm	0	0			3			0	0		
Christiania	29.61	752.0	29.75	755.6	70.7	21.5	64	ssw.	18	8			7			0.055	1.4		
Gjæsvær	29.78	756.4	29.80	757.0	56.8	13.8		w.			2		1						
Lodingen	29.66	753.4	29.71	754.6	66.2	19.0	53	e.			1		4			0	0		
PORTUGUESE.																			
Angra, Azores					72.3	22.4	86	w.	8.1	3.6			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.01	736.9	29.96	760.9	86.9	30.5	29	sw.	7.4	3.3			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.12	765.1	30.21	767.3	73.2	22.9	60	sw.	8.1	3.6			2			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.75	755.6	30.10	764.5	75.0	23.9	49	n.	18.1	8.1			0			0	0		The Staff.
Ponta Delgada, Azores	30.26	768.5	30.32	770.2	78.1	25.6	64	wnw.	9.8	4.4			5			0	0		
Saint Paul de Loando	29.84	757.9	30.04	763.1	70.0	21.1	88	w.	0.7	0.3			0			0	0		
Serra da Estrella	25.39	644.8	30.00	762.1	61.0	16.1	40	wnw.	15.0	6.7			3			0	0		
RUSSIAN.																			
Akmollinski	28.90	734.1	29.95	760.7	66.9	19.4	71	sw.	7	3		0	5 k			0	0		Major K. Lasarew.
Archangel	29.92	760 0	29.94	760.5	73.9	23.3	51	s.	4	2		0	8 ks			0	0		Capt. Sselliwerstow
Astrakhan	30.00	762.1	29.92	760.0	88.0	31.1	35	se.	7	3		0	0			0	0		Capt. Wisganow.
Barnaul	29.35	745.5	29.84	757.8	60.8	16.0	66	sw.	13	6			9			0.004	0.1		Meteorological Obs'y
Dorpat	29.60	751.8	29.83	757.6	83.1	28.4	59	ssw.	4	2		8 c;cs	0			0	0		Observatory.
Ekaterinburg	28.98	736.2	29.89	759.3	78.6	25.9	35	n.	9	4		c	7 ks			0	0		Meteorological Obs'y.
Irkutsk	27.97	710 4	29.50	749.3	79.0	26.1	64	sw.	4	2			9 s			0	0		
Kasan	29.70	754.4	29.95	760.7	89.6	32.0	30	calm	0	0		0	3 k			0	0		Observatory.
Kertch	29.63	752.5	29.65	753.0	74.8	23.8	91	ne.	4	2			10 n			0.031	0.8		Lagorio & Sastyrez.
Kieff	29.24	742.8	29.84	757.8	85.3	29.6	36	e.	13	6		c;cs	9 ks			0	0	light clouds	Observatory.
Lugan	29.58	751.2	29.76	756.0	95.2	35.1	24	ene.	22	10			4			0	0	light clouds	Meteorological Obs'y
Moscow	29.47	748.4	29.90	759.4	86.2	31.2	44	se.	4	2			3 ks						Meteorological Obs'y.
Nikolaiev	29.67	753.0	29.74	755.4	95.2	35.1	28	e.	18	8		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.54	750.4	29.69	754.0	81.3	27.4	71	calm	0	0		0	1 k			blank	blank		Physical Observatory
St. Petersburg	29.81	757.1	29.82	757.5	80.4	26.9	55	sw.	9	4			9 ku			0.035	0.9		Central Physical Obs'y
Semipalatinsk	29.28	743.6	29.91	759.6	70.9	21.6	45	w.	11	5			0			0	0		Major Lasarew.
Tashkend, Laboratory	28.30	718 7	29.78	756.3	81.5	27.5	37	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.46	722.8	29.78	756.4	89.6	32.0	31	s.	7	3		0	4 k			0	0		Physical Observatory
Vladivostock	29.60	751.7	29.62	752.4	65.8	18.8	100	e.	2	1			10 n						
Warsaw	29.48	748.8	29.89	759.1	74.1	23.4	70	nw.	7	3		0	8 k						Astronomical Obs'y
Wilna	29.46	748.3	29.85	758.3	78.6	25.9	61	se.	4	2			8			0	0	heavy clouds	Berg, Assistant.
Yeniseisk	29.37	745.9	29.64	752.9	65.5	18.6	93	w.	7	3			7			0.091	2.3	raining	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.81	757.2	29.91	759.7	83.1	28.4	59	sw.	5.4	2.4			0						Antonio Rave, Director.
Bilbao, Met. Obs'y	29.96	760.9	30.02	762.4	84.2	29.0	48	nw.	2.7	1.2		3	5	w.		0	0	almost cov.	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.11	688.6	29.93	760.3	79.5	26.4	33	s.	5.1	2.3			5			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.79	705.9	29.89	759.2	86.2	30.1	38	nw.	7.4	3.3		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director.
Santiago, Met. Obs'y	29.11	739.5	30.00	760.2	63.5	17.5	98	sw.	9.8	4.4			10			0.350	8.9	raining	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.					76.9	24.9	86	ese.	16.1	7.4		1 c	9 kn	ne.	sw.	0.185	4.7	threatening	Benito Vines, S. J.
Manilla, Philippine Islands	29.75	755.7	29.81	757.2	75.7	24.3	65	s.	7.0	3.1		0	0			0	0		P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.95	760.7	30.05	763.1	78.8	26.0	89	calm	0	0		1 s	2 k	sw.	sw.	0.197	5.0	clear	Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.04	763.0	30.13	765.3	81.9	27.7	88	nw.	2.0	0.9		1 cs	6 k	ne.	se.	0.02	0.5	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.62	752.3	29.75	755.6															José L. Yrastorza.
SWEDISH																			
Haparanda	29.85	758.2	29.89	759.2	64.0	17.8	72	sw.			2		5			0	0		
Umea	29.78	756.3	29.83	757.6	68.0	20.0	58	sw.			4		7			0	0		
Hernosand	29.76	755.8	29.81	757.1	64.4	18.0	71	sw.			2		5			0.071	1.8		
Stockholm	29.65	753.1	29.83	757.6	68.0	20.0	56	wnw.			2		2			0.114	2.9		
Wisby	29.83	757.6	29.89	759.1	62.6	17.0	78	nnw.			2		0						

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Sub-series.																			
Upsala	29.74	755.5	29.83	757.7	70.2	21.2	53	nw.	4.3	1.9			3		w.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.53	724.7	29.89	759.3	77.2	25.1	50	e.			2					0	0	cloudy	The Observatory
Scottish.																			
Monach Lt			29.38	746.2	59	15.0	94	sse.			4	10	5	sse.		0.1	3.	showery	J. Youngclause.
North Unst			29.45	748.0				se.			3					blank	blank		
Turkish.																			
Constantinople			29.74	755.4	84.0	28.9	62	ese.	7	3.0			2		nw.	0	0		The Observatory.
Valona			29.97	761.1	83.5	28.6		w.			2		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.72	754.9	85.1	29.5	59	w.			2	0	2 k		sw.	0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	30.08	764.0	30.16	766.1	70	21.1	73	sw.	4	1.8		1 c	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.53	750.0	30.17	766.3	64	17.8	68	w.	4	1.8		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.21	640.3	29.95	760.7	63	17.2	84	sw.	3	1.3			10 s		calm	0.62	15.7	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.14	689.3	29.88	758.9	64	17.8	54	sw.	11	4.9		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.07	738.4	30.22	767.6	67.0	19.4	90	e.	9	4.0			10 k			0.52	13.2	cloudy	H. Hall.
Atlantic City, New Jersey	30.16	766.1	30.17	766.3	70.2	21.2	78	n.	3	1.3		2 c	0	calm		0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.06	763.5	30.25	768.3	71.0	21.7	87	ne.	3	1.3			10 s		ne.	0.91	23.1	cloudy	John Healy.
Baltimore, Maryland	30.18	766.6	30.22	767.6	72	22.2	57	n.	7	3.1		0	0			0	0		Robert Seyboth.
Barnegat, New Jersey	30.14	765.5	30.16	766.1	71.0	21.7	79	w.	6	2.7		0	0			inap.	inap.	clear	G. A. Hill.
Bennett, Fort, Dakota	28.32	719.3	29.86	758.4	65	18.3	90	nw.	2	0.9		2 c	2 s	calm	calm	0.02	0.5	fair	A. Pritchard.
Benton, Fort, Montana	27.17	690.1	29.88	758.9	59	15.0	78	calm	0	0		0	0			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	29.43	747.5	29.45	748.0	49.8	9.9		n.	11	4.9			9 ks		n.	0.05	1.3	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.10	713.7	29.82	757.4	67	19.4	84	calm	0	0		5 cs	0	nw.		0.04	1.0	fair	Cyrus Cramer.
Block Island, Rhode Island	30.10	764.5	30.13	765.3	69.6	20.9	70	w.	10	4.5		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.13	689.1	29.85	758.2	73	22.8	48	w.	4	1.8		2 k	0	calm		0	0	clear	B. E. Light.
Boston, Massachusetts	29.93	760.2	30.08	764.0	66.0	18.9	63	w.	6	2.7		2 c	0			0	0	clear	O. B. Cole.
Brownsville, Texas	30.03	762.7	30.07	763.8	76.1	24.5	97	e.	1	0.4		4 c	3 ks	calm	calm	0	0	fair	M. McCarty.
Buffalo, New York	29.46	748.3	30.19	766.8	67	19.4	81	s.	10	4.5		1 cs	hz.			0	0	clear	Wm. Finn.
Buford, Fort, Dakota	27.97	710.4	29.91	759.7	59	15.0	78	sw.	2	0.9		2 cs	0	calm		0.19	4.8	clear	A. H. Bell.
Burlington, Vermont	29.80	756.9	30.08	764.0	69.3	20.7	60	s.	5	2.2		1 ck	0	w.		inap.	inap.	clear	G. C. Schneffer.
Cairo, Illinois	29.89	759.2	30.28	769.1	69.7	20.9	63	ne.	2	0.9		0	0			0	0	clear	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.35	694.7	29.94	760.5	70.5	21.4	95	calm	0	0			10 s			0.40	10.2	cloudy	J. T. Fitzgerald.
Cape Henry, Virginia	30.18	766.6	30.20	767.1	72	22.2	90	n.	7	3.1		4 cs	hz.			0.17	4.3	fair	A. K. Alderson.
Cape May, New Jersey	30.15	765.8	30.18	766.6	72.0	22.2	82	n.	8	3.6		0	0			0.02	0.5	clear	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.13	765.3	30.15	765.8	80	26.7	79	e.	5	2.2		9 ck	0			0	0	cloudy	F. W. Mixer.
Champaign, Illinois	29.48	748.8	30.27	768.8	65.0	18.3	68	se.	4	1.8		0	hz			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.13	765.3	30.18	766.6	70	21.1	84	ne.	8	3.6			10 s		ne.	0.73	18.5	threatening	J. H. Smith.
Charlotte, N. Carolina	29.38	746.2	30.21	767.3	66.0	18.9	90	ne.	2	0.9		10 cs	0	w.		0.22	5.6	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.46	748.3	30.26	768.6	68.0	20.0	81	n.	5	2.2		4 k	1 ks	ne.	ne.	0.08	2.0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.26	616.2	29.95	760.7	52.2	11.2	59	nw.	8	3.6		0	0			inap.	inap.	clear	E. McGovern.
Chicago, Illinois	29.55	750.6	30.24	768.1	67.4	19.7	62	sw.	6	2.7		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.16	766.1	30.18	766.6	70	21.1	94	n.	9	4.0		hz.	hz.			inap.	inap.	clear	V. P. Temple.
Cincinnati, Ohio	29.63	752.6	30.27	768.8	66	18.9	78	n.	1	0.4		0	0			0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.53	750.0	30.25	768.3	63.8	17.7	65	s.	5	2.2		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.35	720.1	30.11	764.8	72	22.2	100	sw.	2	0.9			10 s			2.70	68.6	thnd'r str'm	L. Dorman.
Columbus, Ohio	29.42	747.3	30.25	768.3	64	17.8	68	n.	1	0.4		0	0			inap.	inap.	clear	D. Cuthbertson.
Concho, Texas	28.25	717.5	30.13	765.3	70	21.1	97	nw.	4	1.8			10 n			0.18	4.6	light rain	W. W. McConlhe.
Custer, Fort, Montana	26.89	683.0	29.91	759.7	57	13.9	86	s.	5	2.2		0	0			0.08	2.0	clear	V. Verge.
Davenport, Iowa	29.62	752.3	30.25	768.3	66	18.9	90	calm	0	0		0	hz.		calm	0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.35	643.9	29.99	761.7	66	18.9	70	n.	4	1.8			10 ks		n.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.22	716.8	29.93	760.2	52.8	11.6	70	calm	0	0		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.50	647.7	29.92	760.0	62.5	16.9	75	s.	4	1.8		0	0			0.17	4.3	clear	G. W. Scott.
Decatur, Texas																0.86	21.8		D. J. Carr.
Delaware Breakwater, Del.	30.17	766.3	30.19	766.8	68	20.0	93	w.	5	2.2		3 c	fg	sw.		inap.	inap.	clear	A. Schneider.
Denison, Texas																			J. McGlone.
Denver, Colorado	24.93	633.2	29.94	760.5	59.0	15.0	65	s.	6	2.7		0	0			0.09	2.3	clear	F. M. Neal.
Des Moines, Iowa	29.37	746.0	30.25	768.3	60	15.6	81	calm	0	0		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.55	750.6	30.24	768.1	63.9	17.7	84	w.	11	4.9		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.59	700.8	30.09	764.3	64.0	17.8	90	s.	6	2.7		0	8 s		s.	inap.	inap.	cloudy	W. M. Mattingly.
Dubuque, Iowa	29.55	750.6	30.24	768.1	63.3	17.4	84	s.	1	0.4		0	fg.			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.39	746.5	30.11	764.8	69	20.6	66	w.	3	1.3		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.34	745.2	30.14	765.5	75.0	23.9	85	se.	2	0.9			10 s		se.	0.24	6.1	cloudy	F. Belford.
Eagle Rock, Idaho	25.33	643.4	29.88	758.9	50	10.0	61	n.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.93	760.2	29.99	761.7	68.0	20.0	70	sw.	3	1.3		1 c	0	w.		0	0	clear	D. O. Murphy.
Elliott, Fort, Texas	27.42	696.5	30.06	763.5	65	18.3	70	se.	4	1.8			10 s		se.	inap.	inap.	cloudy	W. J. Oundall.
El Paso, Texas	26.46	672.1	30.06	763.5	69	20.6	81	ne.	3	1.3		2 c	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.50	749.3	30.21	767.3	70	21.1	70	sw.	2	0.9		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.54	750.3	30.18	766.6	66	18.9	73	calm	0	0		3 c	0			0	0	clear	C. Dill.
Fredericksburg, Texas	28.42	721.9	30.12	765.0	73	22.8	90	calm	0	0			10 s			0.43	10.9	cloudy	H. S. Miles.
Galveston, Texas	30.06	763.5	30.11	764.8	78	25.6	90	ne.	6	2.7		1 c	4 ks		sw.	0.53	13.5	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.60	751.8	30.25	768.3	71.0	21.7	68	sw.	6	2.7		0	0			0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.38	644.6	29.95	760.7	69.1	20.6	81	calm	0	0			10 s			0.58	14.7	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.12	765.0	30.14	765.5	74.0	23.3	82	n.	18	8.0		4 k	5 k		ne.	1.00	25.4	cloudy	R. M. Crawford.
Helena, Montana	25.87	657.1	29.93	760.2	56	13.3	69	sw.	2	0.9		c	0			0.01	0.3	clear	S. Wheaton.
Henrietta, Texas	29.24	742.7	30.22	767.6	74.0	23.3	82	e.	5	2.2		0	5 s			0.29	7.4	fair	J. W. Byram.
Huron, Dakota	28.62	726.9	29.94	760.5	62.1	16.7	84	s.	13	5.8			9 s		s.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.49	749.0	30.26	768.6	69	20.6	66	calm	0	0		0	hz.			0	0	clear	O. Schulze
Indianola, Texas	30.08	764.0	30.11	764.8	80.1	26.7	91	ne.	3	1.3		3 ck	2 ks	ne.	s.	inap.	inap.	fair	I. A. Reed.
Jacksboro, Texas	29.03	737.3	30.15	765.8	71	21.7	94	e.	2	0.9			10 s		se.	0.20	6.6	cloudy	J. P. Sherry.
Jacksonville, Florida	30.12	765.0	30.16	766.1	75	23.9	90	n.	8	3.6			10 s			1.61	40.9	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.48	698.0	29.89	759.2	62	16.7	78	sw.	1	0.4		0	0			0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.60	751.8	30.23	767.8	69.0	20.6	78	calm	0	0		0	0			0	0	clear	F. Z. Gosewisch
Key West, Florida	30.07	763.8	30.09	764.3	84.0	28.9	74	e.	10	4.5		0	3 k		e.	0.01	0.3	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.16	766.1	30.18	766.6	70.0	21.1	90	n.	15	6.7		0	8 k;ks		n.	1.05	26.7	cloudy	E. A. Beals.
Knoxville, Tennessee	29.25	742.9	30.25	768.3	63.3	17.4	91	ne.	2	0.9		0	0			inap.	inap.	clear	J. A. Cody.
La Crosse, Wisconsin	29.46	748.3	30.21	767.3	67	19.4	68	s.	4	1.8		0	0			0	0	clear	S. C. Emery
La Mesilla, New Mexico	26.29	667.8	30.03	762.7	67.0	19.4	84	calm	0	0		0	8 s		n.	0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.40	746.7	30.26	768.6	62	16.7	78	calm	0	0		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.11	739.4	29.92	760.0	64.5	18.1	70	e.	1	0.4		0	0			0.01	0.3	clear	W. Bell.
Little Rock, Arkansas	29.93	760.2	30.24	768.1	67	19.4	78	nw.	3	1.3		0	0			inap.	inap.	clear	W. U. Simons.
Los Angeles, California	29.67	753.6	30.06	763.5	61.4	16.3	93	se.	1	0.4			fg.			0	0	dense fog	E. F. Kubel.
Louisville, Kentucky	29.70	754.4	30.25	768.3	66	18.9	68	n.	4	1.8		0	3 k;sk			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.56	750.8	30.24	768.1	70.0	21.1	76	calm	0	0		0	hz			0.04	1.0	clear	W. R. Bushby.
Macon, Fort, North Carolina	30.16	766.1	30.17	766.3	70	21.1	90	n.	12	5.4			10 s			2.20	55.9	cloudy	F. P. Chaffee.
Madison, Wisconsin	29.25	742.9	30.23	767.8	66	18.9	84	w.	3	1.3		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.60	651.8			67	19.4	22	n.	14	6.3		0	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.92	709.2	30.12	765.0	72	22.2	90	s.	2	0.9			10 s			1.05	26.7	cloudy	J. E. Thatcher.
Marquette, Michigan	29.46	748.3	30.17	766.3	70	21.1	53	w.	8	3.6		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.88	758.9	30.21	767.3	72	22.2	70	ne.	4	1.8		0	3 k		ne.	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.52	749.8	30.24	768.1	65	18.3	78	w.	7	3.1		0	0			0	0	clear	W. Line.

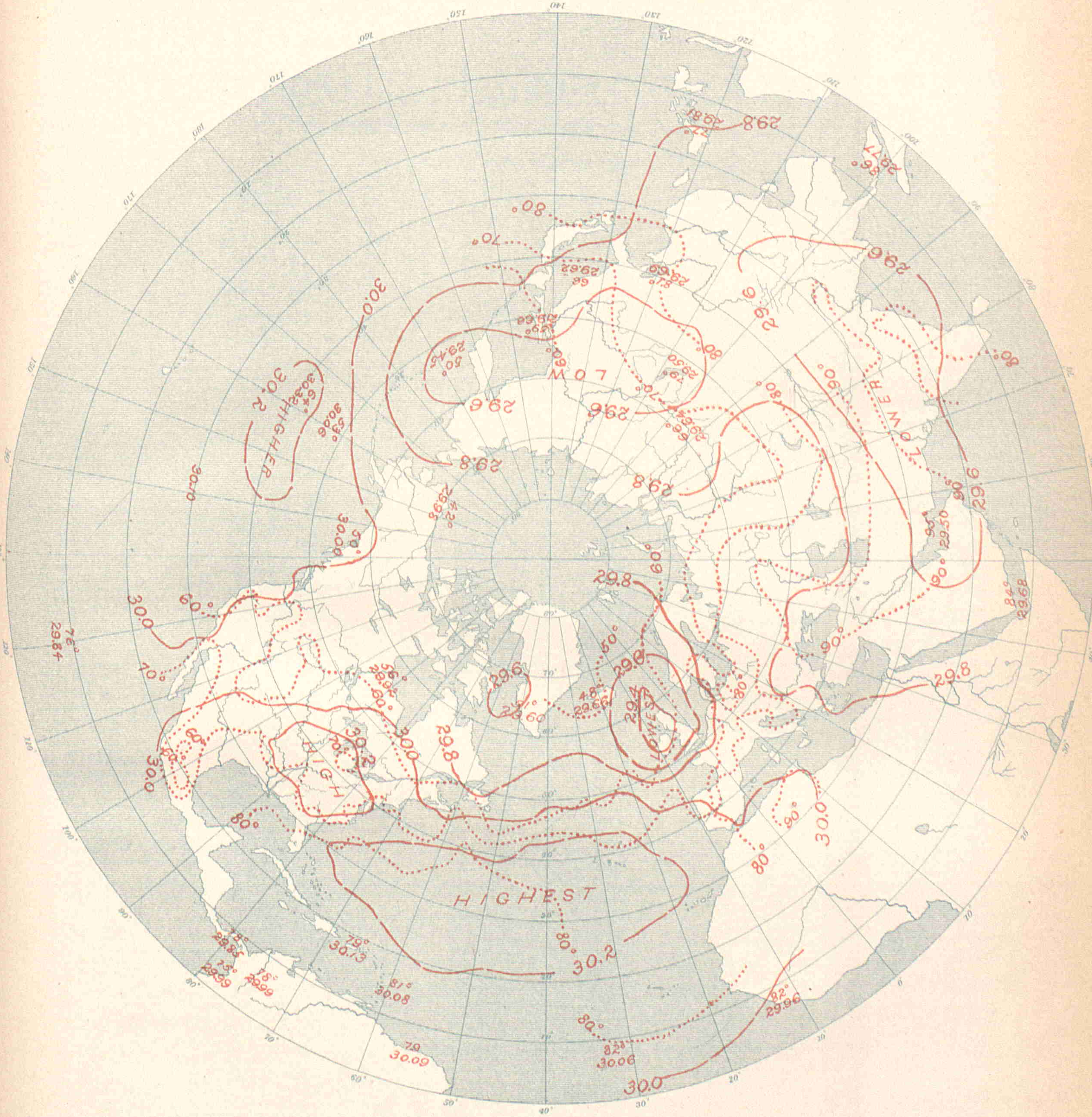
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.74	679.2	29.93	760.2	51	10.6	66	sw.	1	0.4		0	0			0	0	clear	J. H. Jones.
Mobile, Alabama	30.11	764.8	30.15	765.8	73.5	23.1	94	ne.	6	2.7			10 s		ne.	0.10	2.5	cloudy	C. A. Read.
Montgomery, Alabama	29.96	761.0	30.18	766.6	71.4	21.9	86	e.	5	2.2			10 s			0.37	9.4	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.95	735.3	29.91	759.7	65	18.3	78	se.	20	8.9		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.29	744.0	30.29	769.4	61.0	16.1	87	calm	0	0		0	0			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H	23.94	608.1	30.01	762.2	43.0	6.1	98	nw.	38	17.0			fg.		nw.	0	0	dense fog	J. G. Linsley
Nashville, Tennessee	29.70	754.4	30.22	767.6	66.5	19.2	87	calm	0	0		0	0			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.03	762.7	30.14	765.5	68	20.0	70	w.	5	2.2		0	sk.			0	0	clear	J. H. Sherman.
New London, Connecticut	30.11	764.8	30.16	766.1	68	20.0	70	w.	2	0.9		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.05	763.3	30.10	764.5	75.5	24.2	87	e.	7	3.1			10 s		e.	0.06	1.5	threatening	L. Dunne.
Newport, Rhode Island	30.08	764.0	30.12	765.0	70.8	21.6	66	sw.	2	0.9		0	0			0	0	clear	W. McGillivray.
New York, New York	30.00	762.0	30.18	766.6	70	21.1	66	nw.	6	2.7		0	0			0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.16	766.1	30.19	766.8	73	22.8	84	n.	4	1.8		3 ck	4 s	n.		0.07	1.8	fair	H. L. Kemp.
North Platte, Nebraska	27.19	690.6	29.99	761.7	63.6	17.6	88	se.	8	3.6		0	2 s			0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.99	761.7	30.03	762.7	51.0	10.6	93	calm	0	0			10 s		calm	0	0	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.97	761.2	29.98	761.5	42.3	5.7	99	nne.	6	2.7			10 s		sw.	0.03	0.8	cloudy	P. H. Ray.
Omaha, Nebraska	29.08	738.6	30.21	767.3	66.0	18.9	76	s.	6	2.7		0	0			0	0	clear	A. Pollak.
Oswego, New York	29.82	757.4	30.14	765.5	68.4	20.2	74	w	7	3.1		1 c	0	w.		0	0	clear	S. W. Beall.
Palestine, Texas	29.65	753.1	30.19	766.8	73.0	22.8	94	ne.	4	1.8		10 ck	0	nw.		0.02	0.5	cloudy	L. M. Pindell.
Pensacola, Florida	30.10	764.5	30.13	765.3	74.2	23.4	94	ne	6	2.7			10 s		e.	0.04	1.0	cloudy	M. McGauran.
Philadelphia, Pa	30.11	764.8	30.21	767.3	73	22.8	57	nw.	5	2.2		0	hz.			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.15	461.0	29.93	760.2	36	2.2	56	nw.	8	3.6		0	0			inap.	inap.	clear	L. M. Dey.
Pioche, Nevada	24.17	613.9	29.90	759.4	67.0	19.4	42	s.	5	2.2		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.47	748.5	30.26	768.6	61.0	16.1	87	nw.	1	0.4		0	0			0	0	clear	J. H. Bryce.
Poplar River, Montana	27.83	706.9						s.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.09	764.3	30.10	764.5	78.7	25.9	91	calm	0	0		2 c	3 s		sw.	0.45	11.4	fair	M. Hermann.
Port Huron, Michigan	29.55	750.6	30.21	767.3	70.5	21.4	55	w.	5	2.2		4 c	0			0	0	fair	W. O. Bailey.
Portland, Maine	29.98	761.5	30.03	762.7	69.5	20.8	63	nw.	5	2.2		0	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.99	761.7	30.05	763.5	50.0	10.0	86	calm	0	0		0	hz.			0	0	clear	M. L. Hearne.
Prescott, Arizona	24.94	633.5	29.92	760.0	66	18.9	70	e	1	0.4			10 ks		s.	0.18	4.6	cloudy	J. Mc N. Wright.
Provincetown, Mass	30.05	763.5	30.09	764.3	69.0	20.6	70	nw.	5	2.2		0	2 s			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.09	764.3	30.10	764.5	80.5	26.9	85	e.	6	2.7		3 c	1 k	n.	calm	0.47	11.9	fair	W. J. Evans.
Red Bluff, California	29.60	751.8	29.96	761.0	64.5	18.1	59	s.	6	2.7		0	0			c	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.89	759.2	30.12	765.0	80	26.7	74	e.	6	2.7		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	29.51	749.5	30.16	766.1	64	17.8	84	sw.	4	1.8		0	hz.			0	0	clear	E. W. McGann.
Roseburg, Oregon	29.51	749.5	30.05	763.3	49.5	9.7	81	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.92	760.0	29.99	761.7	57.5	14.2	74	s.	12	5.4		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.70	754.4	30.28	769.1	69.0	20.6	91	calm	0	0		0	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.30	744.2	30.14	765.5	61	16.1	87	se.	3	1.3		0	0			0	0	clear	P. F. Lyons
St. Vincent, Minnesota	29.00	736.6	29.84	757.9	63	17.2	84	s.	12	5.4		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.69	652.5	29.87	758.7	68	20.0	49	se.	5	2.2		3 k	0	sw.		0	0	clear	J. Craig.
San Antonio, Texas	29.44	747.8	30.12	765.0	76.5	24.7	90	calm	0	0			10 s		s.	0	0	cloudy	T. J. Kenan.
San Diego, California	29.95	760.7	30.02	762.5	62.6	17.0	91	n.	4	1.8			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.58	751.3	30.24	768.1	66.2	19.0	68	sw.	7	3.1		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.13	765.3	30.16	766.1	70.5	21.4	76	w.	8	3.6		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	30.02	762.5	30.09	764.3	55	12.8	86	sw.	8	3.6			10 s		sw.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.50	596.9	30.00	762.0	56	13.3	74	se.	3	1.3		3 c	1 s	se.		0	0	fair	H. U. Jones.
Savannah, Georgia	30.10	764.5	30.19	766.8	71	21.7	90	n.	6	2.7			10 n		n.	0.30	7.6	light rain	H. W. Ford.
Shaw, Fort, Montana	26.39	670.3	29.90	759.4	62	16.7	72	w.	9	4.0		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.94	760.5	30.17	766.3	71	21.7	84	ne.	3	1.3		1 c	0			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.98	736.1	30.18	766.6	69.5	20.8	88	e.	3	1.3			10 s		se.	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.44	620.8	29.90	759.4	62	16.7	75	w.	2	0.9		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.94	760.5	30.00	762.0	50	10.0	86	nw.	3	1.3			10 n		nw.	0.09	2.3	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.78	756.4	30.21	768.1	63.3	17.4	90	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.15	765.8	30.18	766.6	69	20.6	90	n.	7	3.1		7 cs	0	w.		0.26	6.6	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.90	708.6	29.88	758.9	65	18.3	73	sw.	16	7.2		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.62	752.3	30.28	769.1	66.8	19.3	70	calm	0	0		0	0			0	0	clear	T. B. Jennings.
Springfield, Massachusetts	30.01	762.2	30.14	765.5	70.8	21.6	71	s.	1	0.4		0	0			0	0	clear	T. S. Outram.
Springfield, Mo	28.84	732.5	30.23	767.8	62	16.7	86	e.	6	2.7		0	0			0	0	clear	J. B. Marbury.
Starkville, Miss	29.72	754.9	30.19	766.8	74	23.3	85	e.	3	1.3		0	2 s			0	0	clear	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.06	712.7	29.84	757.9	64	17.8	90	sw.	2	0.9		2 c	0			0	0	clear	W. Burrows
Stockton, Fort, Texas	27.19	690.6	30.13	765.3	67.0	19.4	93	ne.	4	1.8			10 s		ne.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass	30.03	762.7	30.08	764.0	69.0	20.6	73	w.	2	0.9		0	0			0	0	clear	G. Liebmann
Toledo, Ohio	29.56	750.8	30.22	767.6	71	21.7	62	nw.	5	2.2		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.62	701.5	29.94	760.5	75	23.9	76	se.	6	2.7		0	6 ks			0.12	3.0	fair	J. L. Whiteside.
Umatilla, Oregon	29.60	751.8	29.96	761.0	64.5	18.1	51	sw.	12	5.4		0	1 s			0	0	clear	J. Daly.
Uvalde, Texas																			E. C. Imlay.
Verde, Fort, Arizona					75.1	23.9	54	s.			1	4 cs	5 s	w	s.	0	0	cloudy	D. Brooks.
Vicksburg, Mississippi	29.92	760.0	30.16	766.1	72	22.2	90	n.	1	0.4		3 ck	0			1.00	25.4	fair	H. P. Brisbane.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.64	625.8	29.98	761.5	49.0	9.4	66	sw.	4	1.8		0	0			0	0	clear	T. M. Ambler.
Washington, D. C	30.12	765.0	30.22	767.6	68.5	20.3	70	nw.	2	0.9		0	0			0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.20	665.5	29.96	761.0	60.9	16.1	90	calm	0	0		0	0			0	0	clear	F. W. Brandenburg.
Williamsport, Pa	29.63	752.6	30.21	767.3	60	15.6	81	w.	6	2.7		3 ck	0	w.		0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.13	765.3	30.18	766.6	70	21.1	90	ne.	5	2.2			10 s			0.87	22.1	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.64	651.2	29.86	758.4	60	15.6	28	sw.	6	2.7		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.82	732.0	30.09	764.3	65	18.3	73	sw.	7	3.1		5 k	0	w.		0	0	fair	J. H. Attield.
Yuma, Arizona	29.71	754.6	29.85	758.2	80.2	25.8	67	calm	0	0		0	3 s			0	0	clear	O. D. Stewart.
Sub-sertes.																			
Bogota, U. S. Columbia	22.08	560.8			53.0	11.7	60	s.	7	3.1		0	2 ks		sw.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.07	763.8	30.08	764.0	81	27.2	91	e.					10 ks			0	0	fair	J. A. Racker.
Buenaventura, U. S. C	29.96	761.0	29.99	761.7	75	23.9	95	calm	0	0		0	8 n		calm	1.40	35.6	raining	J. I. Plume.
Kingston, Jamaica, W. I	30.08	764.0	30.09	764.3	81.5	27.5	82	ese.	3	1.3		1 cs	2 ks	ene.	ne.	0	0		Robert Johnston.
Magua, San Domingo, W. I					76	24.4		calm			0	0	9 ck		se.	0.08	2.0		S. M. Pike.
Navassa	29.93	760.2	30.00	762.0	81.5	27.5	74	e.	10	4.5		4 k	5 cs	s.	e.	0	0	cloudy	F. M. Everett.
Paramaribo, S. A	30.08	764.0	30.09	764.3	79	26.1	82	e.			2	3 c	4 k	e.	e.	0.420	10.7		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.43	747.5	29.99	761.7	78	25.6	89	calm			0	2 ck	2 k	calm	calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A							98	ne			2		10 ks		ne.	0.62	15.7	cloudy	Earl Flint.
Santiago de Cuba, W. I	30.00	762.0	30.03	762.7	81	27.2	78	calm	0	0		4 c	0			0	0	fair	Robert Mason.
York Factory, B. A	29.86	758.4	29.92	760.0	56.0	13.3	100	w.	10	4.5			10 n		w.	0.05	1.3	raining	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Amethyst, Montevideo, Uruguay	30.29	769.4	39.5	4.2	91	nw.			2		0							blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.73	755.1	84	28.9		n.			2		2							d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.18	766.6	61	16.1		se.			4–5		0							blue sky.
H. M. S. Champion, Yokohama, Japan			81	27.2	87	ssw.			2–4		6	ssw.				3	ssw.	squally.
H. M. S. Comus, N. 50° 05′, W. 162° 15′	29.92	760.0	51	10.6	86	sse.			5–6		10					3	sw.	misty.
H. M. S. Diamond, S 10° 17′, E. 161° 38′	29.91	759.7	79	26.1	90	calm			0		3	w.						d. clouds.
H. M. S. Dido, N. 14° 50′, W. 61° 30′	30.07	763.8	79	26.1		n.			1									showery.
H. M. Dock-Yard, Bermuda, W. I.	30.22	767.6	81	27.2	82	sse.			1–2		3	sse.						d. clouds.
H. M. S. Druid, N. 37° 00′, W. 57° 58′	30.28	769.1	80.5	26.9	84	ssw.			3		4	ssw.				1	s.	d. clouds.
H. M. S. Eclipse, N. 12° 39′, E. 46° 50′	29.58	751.3	84	28.9		sw.			5–6		7					6	ssw.	d. clouds.
H. M. S. Emerald, N. 15° 00′, W. 24° 00′	30.03	762.7	78	25.6	100	n.			1		0					2	ssw.	blue sky.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.04	763.0	58.5	14.7	87	var.			1		10							overcast.
H. M. S. Garnet, Saint Vincent, Cape Verd Islands	29.93	760.2	78	25.6	82	nne.			1		5							d. clouds.
H. M. S. Griffon, N. 51° 42′, W. 56° 25′	29.58	751.3	52	11.1	?	wsw.			2		6							
H. M. S. Iris, N. 31° 20′, E. 32° 16′	29.99	761.7	79	26.1	78	nw.			2–3		1	nw.				1	nw.	blue sky.
H. M. S. Iron Duke, N. 51° 26′ E. 140° 52′	29.66	753.4	59	15.0	94	calm			0		10							drizzling.
H. M. S. Kingfisher, N. 48° 10′ W. 124° 50′	29.99	761.7	52	11.1		wsw.			3		3							squally.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.92	760.0	79.3	26.3	98	calm			0		2							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.99	761.7	53.5	11.9		ne.			2		10					2	n.	d. clouds.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	29.89	759.2	80.5	26.9	89	s.			1–2		7							misty.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.79	756.7	80	26.7	74	wnw.			3		3					1	wnw.	d. clouds.
H. M. S. Nelson, S. 35° 16′, E. 174° 08′	29.61	752.1	52	11.1	93	s.			1									d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.97	761.2	63.5	17.5	80	w.			1		8	w.						d. clouds.
H. M. S. Orion, N. 34° 01′, E. 23° 21′	29.83	757.7	77	25.0		nw.			2–3		1	nnw.				2	nw.	misty.
H. M. S. Pegasus, N. 5° 24′, E. 100° 20′	29.77	756.1	85.5	29.7	83	s.			1		4							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Is'd	30.16	766.1	69	20.5	95	nne.			3		5	ese.						d. clouds.
H. M. S. Rocket, Vancouver Island, B. A.	29.98	761.5	53	11.7	93	wsw.			3		3							squally.
H. M. S. Sappho, S. 3° 56′ W. 150° 00′	29.92	760.0	78.5	25.8		ene.			3–4		4	ene.				4	ne.	d. clouds.
H. M. S. Swiftsure, Montevideo, Uruguay	30.39	771.9	53.5	11.9	93	s.			3		3	s.						d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.34	770.6	36.7	2.6	87	nw.			1		1							blue sky.
H. M. S. Tenedos, N. 51° 28′ W. 56° 56′	29.70	754.4	52	11.1	100	sse			1		8							d. clouds.
H. M. S. Triumph, Sandy Point, Patagonia.	29.79	756.7	36	2.2	70	ssw.			2–4		4	ssw.						squally.
H. M. S. Tyne, N. 34° 06′, W. 57° 52′	30.34	770.6	81	27.2	85	se.			2		1	ese.				1	ese.	blue sky.
H. M. S. Woodlark, N. 25° 55′ E. 53° 55′	29.40	746.7	94.5	34.7	74	e.			3–4		0					2	e.	dense mist.
H. M. S. Zephyr, N. 33° 33′, E. 135° 11′	29.94	760.5	80	26.7	100	s.			2		1	sw.				2	s.	blue sky.
Portuguese Naval.																		
Rio Lima, Cape Roxo, Senegambia	30.12	765.0	80.2	26.8	86	w.			2		10			10 h'r	10 h'r	4	w.	raining.
Tamega, Macao, China	29.73	755.1	86.2	30.1	77	e.			4		8		s.	¼ h'r	¼ h'r			d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla.	30.05	763.3	76	24.4	91	ne.	5	2.2			10		ne.	0.02	0.5			cloudy.
N. Yard, Portsmouth, N. H.	30.08	764.0	67	19.4	94	w.	2	0.9			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.78	756.4	79	26.1	82	sw.			3		5		sw.	0	0			fair.
Adams, Mare Island, Cal.						sw.			1		8			0	0	sm'h		cloudy.
Alaska, Callao, Peru	29.95	760.7	59	15.0	94	calm			0		10			0	0	sm'h		cloudy.
Alert, Mare Island, Cal*	29.89	759.2	57	13.9	81	sw.			3		10		sw.	0	0	sm'h		squally.
Alliance, Boston, Mass	30.07	763.8	68	20.0	70	wnw.			2		2			0	0			clear.
Ashuelot, Yokohama, Japan*	29.84	757.9	80	26.7	87	ssw.			3		5		sw.					fair.
Brooklyn, Rio de Janeiro, Brazil	30.20	767.1	69	20.6	100	ne.	6	2.7			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	30.14	765.5	71	21.7	71	w.	3	1.3			0			0	0			fair.
Constellation, New York, N. Y*	30.16	766.1	71	21.7	71	nw.			1		0							clear.
Enterprise, Provincetown, Mass*	30.05	763.3	68	20.0	100	nw.			3		5		nw.			sm'h		fair
Essex, Valparaiso, Chili	30.04	763.0	54	12.2	74	calm			0		2					sm'h		clear.
Franklin, Norfolk, Va.	30.20	767.1	72	22.2	95	n.	2	0.9			8		var.	0.05	1.3			fair.
Galena, N. 37° 29′, E. 0° 57′	30.04	763.0	77	25.0	91	s.			1		5					sm'h		fair.
Independence, Mare Island, Cal.	30.11	764.8	59	15.0	94	sw.			3		10			0	0			cloudy.
Iroquois, Mare Island, Cal.	30.04	763.0	57	13.9	81	wsw.			3		10							cloudy.
Kearsarge, Norfolk, Va.	30.19	766.8	73	22.8	95	n.			1		8		wsw.					fair.
Lackawana, Callao, Peru*	29.98	761.5	60	15.6	82	e.			1		10							cloudy.
Lancaster, N. 35° 10′ E. 22° 07′*	29.79	756.7	83	28.3	87	wnw.			4		0			0	0	sm'h		clear.
Marion, S. 34° 54′, W. 56° 13′	30.30	769.6	40	4.4	100	nw.			2		0			0	0	sm'h		clear
Michigan, Carp River, Mich.	30.14	765.5	56	13.3	94	sw.			1		0							clear.
Minnesota, Newport, R. I.	30.15	765.8	72	22.2	76	wsw.	5	2.2			0							
Monocacy, Chefoo, China	29.68	753.9	75	23.9	86	e.			1		10		calm			sm'h		cloudy.
New Hampshire, Newport, R. I.	30.13	765.3	68	20.0	79	wsw.			2		2		w.			sm'h		fair.
Nipsic, N. 34° 16′, E. 19° 12′*	29.85	758.2	81	27.2	78	wnw.			2		0					sm'h		clear.
Onward, Callao, Peru	30.13	765.3	59	15.0	88	calm			0		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.86	758.4	79	26.1	100	wsw.			2		10		sw.					cloudy.
Passaic, Washington, D. C.	30.26	768.6	71	21.7	95	w.			1		0							clear.
Pensacola, Panama, Panama*	29.85	758.2	78	25.6	95	nw.	5	2.2			8		nw.	0	0	sm'h		fair.
Portsmouth, N. 38° 57′ E. 3° 00′*	29.97	761.2	79	26.1	70	sse.			2		2					sm'h		clear.
Powhatan, Pensacola, Florida	30.14	765.5	78	25.6	91	ne.			2		10		e.					cloudy.
Quinnebaug, Alexandria, Egypt	29.77	756.1	79	26.1	82	nw.			2		2		calm			sm'h		clear
Ranger, Mare Island, Cal.	30.05	763.3	58	14.4	70	sw.			3		10		sw.	0	0			cloudy.
Richmond, Yokohama, Japan*	29.85	758.2	81	27.2	87	ssw.			5		0			0	0			clear.
Saratoga, N. 41° 43′ E. 3° 46′	29.93	760.2	77	25.0	86	sse.			2		2		n.	0	0	sm'h		fair.
St. Louis, League Island, Pa.	30.40	772.1	69	20.6	75	nw.			1		0			0	0			clear.
Swatara, Yokohama, Japan*	29.75	755.6	80	25.7	87	ssw.			4		5		calm			mod.	ssw.	fair.
Tennessee, Provincetown, Mass.	30.13	765.3	70	21.1	90	w.	4	1.8			0			0	0			clear.
Vandalia, Portsmouth, N. H*	30.03	762.7	66	18.9	84	nw.			1		0							clear.
Wabash, Boston, Mass.	30.09	764.3	67	19.4	64	wnw.	7	3.1			2		w.	0	0			clear.
Wachusetts, Fort Wrangle, Alaska†	30.22	767.0	51	10.6	93	nw.			1		10		calm			sm'h		cloudy.
Wyoming, Port Royal, S. C.*	30.17	766.3	70	21.1	95	n.	14	6.3			10		n.	1.98	50.3			raining.
Yantic, Provincetown, Mass.	30.10	764.5	67	19.4	84	w.			2		2							fair.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, Glasgow, Scotland*	29.42	747.3	64	17.8		s.			4		9		s.					cloudy.
S. S. Nova Scotian, N. 51° 18′, W 25° 04′	29.84	757.9	58	14.4		wnw.			4		8		w.			mod.	nnw.	cloudy.
S. S. Scandinavian, N. 47° 38′, W. 44° 23′*	29.85	758.2	52	11.1		sw.			2		10		sw.	driz.	driz.	light	sw.	drizzling.
S. S. Waldensian, N. 45° 51′ W. 48° 36′*	29.99	761.7	50	10.0		wsw.			2				wsw.	9 h'r	9 h'r	mod.	wsw.	raining.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, Off Ballycottin, Ireland *†	29.45	748.0				wsw.			6		3?		w.	o	o	strong	wsw.	cloudy.?
S. S. Lord Gough, Off Cape Henlopen, Del	30.16	766.1	87	30.6		nw.			1		2		nw.	o	o	sm'h		fair.
AMSTERDAM LINE.																		
S. S. Jason, N. 44° 05′, W. 51° 10′	30.04	762.9	57.2	14.0		w.			2		10 n					1	w.	foggy.
ANCHOR LINE.																		
S. S. Alexandria, Leghorn, Italy	29.88	758 9	76	24.4		nw.			2		4		nw.	o	o			fair.
S. S. Bolivia, N. 50° 26′ W. 28° 00′ *†	30.05	763.3	54	12.2		nnw.			1		8		nnw.	o	o	long	n.	cloudy.
S. S. Ethiopia, N. 42° 13′, W. 55° 06′	30.06	763.5	71	21.7	95	w.			2		10		w.	4 h'r	4 h'r	sm'h		overcast.
S. S. Galatia, N. 13° 42′, E. 51° 08′†	29.99	761.7	79	26.1		sw.			3		7			o	o	mod.	sw.	
S. S. India, N. 41° 36′, W. 43° 07′*	30.13	765.3	78	25.6	95	wsw.			5		7					sm'h		cloudy.
S. S. Utopia, N. 40° 43′ W. 55° 58′†	30.37	771.4	81	27.2	78	sw.			5		0		sw.	10min	utes	mod.	sw.	cloudy.
ATLAS LINE.																		
S. S. Ailsa, Port au Prince †	30.10	764.5	83	28.3	70	ne.			3		5?		ne.	2 h'r	2 h'r	sm'h		clear?
S. S. Alpin, N. 38° 39′, W. 73° 20′	30.14	765.5				e.			1		5		se.	o	o		ssw.	
S S. Alvo, Savanilla, U. S. C	29.95	760.7				calm			0		2?			o	o			overcast.?
S. S. Antillas, N. 24° 21′, W. 73° 27′ *†	30.30	769.6	88	31.1		e.			2							sm'h		
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, N. 43° 03′, W. 66° 51′†	30.11	764.8	68	20.0		w.			2		hz			o	o	small	s.	hazy.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 22° 11′ W. 36° 12′	30.26	768.6	70	21.1	79	ene.			5		4					swell	sse.	blue sky.
S. S. Basil, N. 6° 44′, W. 32° 27′	30.06	763.5	81.8	27.7	78	sw.			1		8						ssw.	d. clouds.
S. Baroda, S. 28° 24′, E. 10° 43′	30.22	767.6	61.3	16.3	82	s.			4		7							d. clouds.
S. S. City of Agra, S. 17° 50′, W. 30° 08′	30.23	767.8	75.2	24.0	90	ese.			6		5							d. clouds.
Bk. Commewyne, N. 29° 09′, W. 59° 56′	30.37	771 4	82.1	27.8	74	e.			3		3							d. clouds.
S. S. Glencairn, Off Bardsey I'd., Wales	29.44	747.8	59	15.0	81	sw.			6–7		6							d. clouds.
S. S Gordon Castle, N 42° 42′, W. 50° 23′	30.07	763.8	67.2	19.6	94	wsw.			4		10							foggy.
S. S. Markland, S. 36° 29′, W. 89° 33′	30.39	771.9	55.4	13.0	86	s.			6		4					4	s.	d. clouds.
May Hulse, N. 12° 12′, W. 25° 21′	30.01	762.2	79	26.1	86	calm			0		10							drizzling.
S. Oamaru, S. 28° 46′, E. 8° 50′	30.24	768.1	62.1	16.7	82	se.			4		9							d clouds.
S. S. Pole Star, N. 33° 46′, W. 41° 07′	30.37	771.4	81.7	27.6	87	ene.			2		4							blue sky.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 30° 34′, W. 116° 17′.*†	29.99	761.7	64	17 8	83	nw.			1		fg.					mod.	nw.	foggy.
CROMWELL LINE.																		
S. S. Hudson, N. 33° 17′, W. 76° 40′†	30.05	763.3	74	23.3		nne.			3		4		nne.	6 h'r	6 h'r	mod.	ne.	fair.
CUNARD LINE.																		
S. S. Gallia, N. 43° 47′, W. 44° 18′	30.10	764.5	70	21.1	?	w.			2-4		5		w.	o	o	sm'h		fair.
S. S. Marathon, N. 50° 12′, W. 22° 36′	29.99	761.7	60	15.6		sw.			4		6		nw.	o	o	r'gh	nw.	fine.
S. S. Scythia, N 42° 27′, W. 51° 33′	30.07	763.8	67.5	19.7	100	sw.			2		8		w.	slight	slight	sm'h		hazy
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 42° 20′, W. 49° 50′†	29.95	760.7	80.6	27.0		w.			4		ck		w.	o	o	sm'h	w.	hazy.
S. S. Ville de Marseilles, N. 41° 15′, E. 9° 52′*†	29.85	758.2	75	23.9		ene.			6		o			o	o	mod.	e.	clear.
GUION LINE.																		
S. S. Arizona, N. 48° 31′, W. 34° 32′	29.95	760.7	59	15.0		sw.			3		10			3 h'r	3 h'r	mod.	se.	raining.
S. S. Wisconsin, N. 42° 10′ W. 51° 00′	30.15	765.8	70	21.1	79	w.			3		10			o	o	sm'h		foggy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 47° 48′, W. 32° 57′†	30.00	762.0				sw.			4		7		w.	o	o	mod.	sw.	light rain
S. S. Cimbria, N. 48° 45′, W. 24° 00′	30.04	763.0	61	16.1		nw.			4		7		nw.	o	o	mod.	nw.	fair.
S. S. Gellert, N 40° 50′, W. 56° 27′	30.15	765.8	78	25.6		ssw.			5		10		ssw.	4 h'r	4 h'r	mod.	ssw.	raining.
S. S. Herder, N. 50° 12′, W. 4° 48′	29.76	755.9	51	10.6		ssw.			3		1		wnw.	6 h'r	6 h'r	mod.	wsw.	clear.
S. S. Silesia, N. 40° 31′, W 70° 00′†	30.25	768.3	69.2	20.7	84	calm			0		10			o	o	1	wnw.	fair.
S. S. Westphalia, N. 49° 51′, W. 60° 58′			64	17.8	67	w.			7		8		wnw.	rain	rain	h'vy	w.	stormy.
S. S. Wieland, N. 42° 39′, W. 53° 43′	30.11	764.8	70	21.1		n.			4		10		nnw.	2 h'r	2 h'r	3	sw.	raining.
INMAN LINE.																		
S. S. City of Berlin, N. 40° 30′ W. 68° 74′?	30.15	765.8				var.			1		10		sw.	o	o	sm'h		gloomy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 27° 00′ W. 43° 30′.*†	30.49	774.4	70	21.1		se.			5		10		sw.	o	o	sm'h		cloudy.
LEYLAND LINE.																		
S. S. Bulgarian, N. 51° 08′, W. 18° 30′ *	29.71	754.6				w.			7		8		wnw.	3 h'r	3 h'r	high	wnw.	
MALLORY LINE.																		
S. S. Colorado, New York, N. Y.†	30.20	767.1	63	17.2		nw.			1		0			o	o			clear.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Brooklyn, N. Y.*†	30.19	766.8	76	24.4	90	w.			1		0			o	o			clear.
MERCHANTS' EXPRESS LINE.																		
S S. Hermod, N. 48° 34′ W 27° 00′ *†	29.80	756.9	59.0	15.0		w.			2		8		w.	o	o	long	wnw.	cloudy.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 10° 52′ W. 50° 40′	29.62	752.3				ese.			3				e.	o	o	mod.	ne.	cloudy.
S. S. Glenapp, Newport News, Va.†	30.18	766.6				calm			0		4		var.	2 h'r	2 h'r			showery.
MORGAN LINE.																		
S. S. New York, N. 26° 55′, W. 79° 42′ *†	30.20	767.1	84	28.9		calm			0		0			o	o			clear.
NATIONAL LINE.																		
S. S. Canada, N. 40° 40′, W. 57° 27′†	30.05	763.3	74	23.3					3		8		s. wsw.	4 h'r	4 h'r	sl't	w.	raining.
S. S. Denmark, N. 40° 40′ W. 63° 49′	30.13	765.3	66	18.9		w.			2		10		wsw.	5 h'r	5 h'r	sl't	wsw.	gloomy.
S. S. England, N. 40° 25′, W. 68° 04′	30.14	765.5				s.			2		8		sw.	o	o	sm'h		cloudy.
S. S. Erin, N. 40° 54′, W. 63° 18′	30.08	764.0	65	18.3		wsw.			4		10		nw.	o	o	sm'h		fine.
S. S. The Queen, N 47° 48′, W. 21° 17′	30.06	763.5	58	14.4		wnw.			6		5		calm	o	o	mod.	wnw.	
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 20° 55′, W. 74° 00′†	30.13	765.3	80	26.7		ene.			4		7		ese.	1 h'r	1 h'r	small	ese.	cloudy.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.†	30.12	765.0	74	23.3	81	nw.			2		5		nw.	o	o			fair.
S. S. City of Washington, N. 29° 57′, W. 77° 50′ *†	30.30	769.6	81	27.2		ssw.			1		2		ssw.	o	o	sm'h		fine.
NORTH GERMAN LLOYD.																		
S. S. America, N. 41° 05′, W. 55° 07′*	30.14	765.5	77.0	25.0		sw.			4		10		sw.	1 h'r	1 h'r	short	wsw.	squally
S. S. Gen. Werder, N. 42° 09′. W. 55° 10′	30.09	764.3				s.			2		8		w.	4 h'r	4 h'r	sm'h		covered.
S. S. Habsburg, N. 49° 34′, W. 16° 06′	29.79	756.7	59.0	15.0		nw.			7		8		nw.	6 h'r	6 h'r	h'vy	nw.	squally.
S. S. Hermann, N. 39° 45′, W. 65° 07′	30.14	765.5	69.8	21.0		calm			0		7		sw.	12 h'r	12 h'r	mod.	sw.	rainy.
S. S. Leipzig, N. 49° 27′, W. 12° 37′	29.69	754.1	71.0	21.7	85	w.			7		2		w.	4 h'r	4 h'r	h'vy	wnw	fair.
S. S. Neckar, N. 49° 39′, W. 17° 41′	29.89	759.2	59	15.0		wnw.			6-7				wnw.	5 h'r	5 h'r	cross	wnw.	fair.
S. S. Ohio, Bremerhaven, Germany	29.82	757.4				ssw.			6		6		ssw.	o	o			cloudy.
S. S. Rhein, N. 45° 54′, W. 34° 49′	29.99	761.7				wsw.			2		5		sw.	o	o	mod	wsw.	fair.
S S. Saller, N. 53° 49′, E. 6° 18′	29.77	756.1	53.6	12.0		ssw.			3		10		ssw.	3 h'r	3 h'r	mod.	s.	raining.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 47° 57′, E. 160° 28′*†	30.16	766.1	53	11 7	79	ssw.			6		10		s.	o	o	sm'h		foggy.
S. S. Belgic, N. 38° 30′, W. 126° 15′†	30.17	766.3	64	17.8	94	wnw.			1		8		w.			r'gh	nw.	cloudy.
S. S. Gaelic, N. 43° 05′, W. 162° 35′†	30.52	775.2	64	17.8	89	s.			5		10					r'gh	sw.	misty.
S. S. Oceanic, Yokahama, Japan*	29.86	758.4	80	26.7	91	s.			2		8		var.					fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 57′, W. 77° 04′†	30.23	767.8				nne.			5		10?		nne.	o	o	sm'h		clear?
S. S. City of Columbus, New York, N. Y.†	30.13	765.3				nw.			2		0			o	o			clear.
S S. Seminole, Off Hatteras, N. C.†	30.22	767.6	78	25.6	82	n.			3		8		ne.	4 h'r	4 h'r	mod.	ssw.	cloudy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
Oregon Railway and Navigation Company.																		
S. S. Oregon, N. 39° 47′, W. 124° 24′†	30.11	764.8	53	11.7	93	nnw.			4		8		nnw.			mod.	nnw.	cloudy.
Pacific Coast Steamship Company.																		
S. S. Ancon, San Francisco, Cal†	30.05	763.3	54	12.2	86	wsw.			1		10		w.					cloudy.
S. S. City of Chester Off Point Loma, Cal†	30.00	762.0	64	17.8	94	w.			3		10		nw.			cross	nw.	hazy.
S. S. Idaho, N. 48° 53′ W. 123° 18′†	30.02	762 5	58	14.4	81	s.			3		0							clear.
S. S. State of California, San Francisco, Cal†	30.07	763.8	54	12.2	86	wsw.			3		10		wsw.					cloudy.
S. S. Victoria, Nanaimo, Vancouver's Island†	29.84	758.0	59	15.0	87	calm			0		2			0	0			fair.
Pacific Mail Steamship Company.																		
S. S. Australia, Sydney, N. S. W.	29.86	758.4	49	9.4	93	w.			5		5?		w.	0	0			clear.?
S. S. City of New York, Auckland, New Zealand†	29.73	755.1	48	8.9	85	s.			1		0			0	0	sm'h		clear.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.14	765.5	77	25.0	91	nw.			3		7		nw.	0	0	sm'h		clearing.
S. S. City of Sydney, S. 15° 57′, W. 171° 02′†	29.92	760.6	80	26.7	82	nne.			3		2		nw.	0	0	sm'h		clear.
S. S. City of Tokio, N. 35° 26′, E. 139° 39′†	29.89	759.2	80	26.7	78	ssw.			7		5		ssw	0	0			fog
S. S. Colon, N. 33° 42′, W. 73° 59′†	30.19	766 8	81	27.2		wsw.			4		6		w.	0	0	sm'h	wsw.	fair.
S. S. Costa Rica, Panama, Panama*†	29.96	761.0	78	25.6	95	nnw.			2		6		ne.	0	0	sm'h		fair.
S. S. Grenada, N. 28° 02′, W. 116° 15′†	30.00	762.0	61	16.1	?	nw.			2		4		n.	0	0	sm'h	nw.	hazy.
Quebec Steamship Company.																		
S. S. Muriel, N. 39° 27′. W. 73° 22′	30.00	762.0	76	24.4		nnw.			2		10			0	0	sm'h		overcast
S. S. Bermuda, Port of Spain, Trinidad, W. I†	29.85	758.2	82	27.8		calm			0		10		e.	sh'rs	sh'rs	sm'h		dull.
Red Star Line.																		
S. S. Belgenland, N. 40° 00′ W 62° 07′†	30.24	768.1	79	26.1	91	nw.			5		1?		n.	0	0	mod.	w.	overcast.†
S. S. Rhynland, N. 40° 25′, W. 69° 00′	30.35	770.9	69	20.6	85	s.			1		7		ssw.	0	0	sm'h		fair.
S. S. Switzerland, N. 49° 15′ W. 16° 58′†	29.80	758.4				w.			6		8		w.	2 h'r	2 h'r	hv'y	w.	cloudy.
S. S. Vaderland. N. 43° 57′, W. 39° 00′	29.93	760.2	70	21.1	95	sw.			3		8		sw.	0	0	sm'h	w.	hazy.
Rotterdam Line.																		
S. S. Schiedam, N. 50° 40′, E. 0° 30′*	29.72	754.9	61.7	16.5	85	wsw.			6		3		sw.	4 h'r	4 h'r	r'gh	v/sw.	fair.
S. S. W. A Scholten, New York, N. Y.	30.07	763.8	72.8	22.7	77	calm			0		10			0	0			hazy.
State Line.																		
S. S. State of Florida, N. 55° 22′, W. 8° 15′	29.27	743.4	61	16.1		wsw.			2		7		w.	8 h'r	8 h'r	str'g	wsw.	cloudy.
S. S. Indiana, N. 53° 44′, W. 18° 00′†	29.74	755.4	58	14.4		n.			2		2		n.	0	0	mod.	n	clear.
Thingvalla Line																		
S. S. Thingvalla, Copenhagen, Denmark†	30.16	766.1	73.4	23.0		ssw.			2		2		ssw.	0	0			clear.
Warren Line																		
S. S. Iowa. N. 42° 21′, W. 44° 52′*†	30.30	769.6	74	23.3		sw.			4		6		sw.	6 h'r	6 h'r	sli't	wsw.	fair.
White Cross Line.																		
S. S. Plantyn, N. 49° 01′ E. 15° 25′	29.74	755.4							6		3		w.	2 h'r	2 h'r	6	w.	squally.
White Star Line.																		
S. S. Adriatic, N. 41° 22′, W. 54° 16′†	30.26	768.6	78.5	25.8	93	ssw.			3		2		sw.			gentle	ssw.	fair.
S. S. Baltic, N. 41° 29′, W. 60° 06′†	30.16	766.1	71	21.7	95	sw.			4		10		w.	5 h'r	5 h'r	2		showery.
S. S Britannic, N. 51° 00′, W. 14° 55′†	29.70	754.4	58	14.4	94	nw.			6		8		nw.			mod.	nw.	raining.
S. S Celtic, Liverpool, Eng†	29.53	750.0	65	18.3	89	wnw.			3		8		wnw.	sh'rs	sh'rs			showery.
S. S Republic, N. 46° 53′, W. 38° 24′†	30.16	766.1	65	18.3	78	wsw.			3		7		w.	0	0	sm'h		misty.
Winsor Line.																		
S. S. Catherine Whiting, Fire Island, N. Y†	30.20	767.1	70	21.1		wsw.								0	0	long	ssw.	clear.
Miscellaneous.																		
Schr. Ajax, N. 27° 22′, W. 89° 07′†	30.16	766.1				calm			0		3		s.	0	0	sm'h	se.	fair.
Bk. Alpha, N. 40° 00′, W. 62° 10′†	30.09	764.3	78	25.6		wnw.			4		5		w.	2 h'r	2 h'r	mod	w.	fair.
Schr Annie Lewis, N. 27° 59′, W. 96° 45′†	30.25	768.3	83	28.3		s.			1		0			0	0	sm'h		clear.
Bk. Anna Thormann, S. 38° 39′ E. 43° 08′	30.18	766.5	48.9	9.4	79	ssw.			8		6 k n		sw.	hail	hail	high	ssw.	fair.
S. S. Antonio Lopez, San Juan, Porto Rico	30.13	765.3	78	25.6	82	se.			1		5			light	light			fair.
Bk. Argonaut, N 48° 06′ W. 30° 50′*†	30.05	763.3	62.6	17.0		ssw.			4		10		wnw.	4 h'r	4 h'r	mod	wnw.	foggy.
Schr. Asa Eldridge, Key West, Fla†	30.20	767.1				se.			3		6		se	0	0			fair.
S. S. Burswell, N 45° 31′, W. 12° 03′*†	29.98	761.5	73	22.8		wnw.			4		5		wnw.	4 h'r	4 h'r	mod.	wnw.	fine.
Bk. Cato, N. 57° 53′, E. 6° 02′*†	30.00	762.0				sse.			4		7		sse.	0	0	sm'h	sse.	cloudy.
Bk. Celestina, S. 19° 46′, W. 28° 05′*†	30.27	768.8				ese.			4		4		ese.	0	0	rg'h	ese.	fair.
S. hr. C. R. Flint, N. 25° 00′, W. 83° 38′†	30.32	770.1	80	26.7		se.			1		2		sse.	2 h'r	2 h'r	mod	sse.	clear.
S. Cornelius, N 42° 20′, W. 37° 40′*†	30.48	774.2	75	23.9		w.			4		3		w.	0	0	mod.	nw.	clear.
S. S. D. J. Foley, Port Antonio, Jamaica, W. I†	29.98	761.5				calm			0		6			sh'rs	sh'rs			
Schr. Edith R. Seward, N. 21° 53′, W. 71° 15′*†	30.19	766.8	83	28.3		ese.			2		3		se.	1 h'r	1 h'r	long	e.	fair.
S. E. J. Spicer, New York, N. Y.*	30.18	766.6	72	22.2		nw.			2		0			0	0			clear.
Bk. E. L. Pettingill, N. 31° 12′, W. 141° 12′†	30.30	769.6				wnw.			1		0			0	0	sm'h	se.	
S Enoch Train, N. 42° 40′, W. 40° 00′*†	30.33	770.4				sw.			3		2		sw.	shr's	shr's	sm'h		fine.
Bk. Essex, S. 36° 38′ E. 33° 31′*†	30.42	772.7	57	13.9		sse.			1		1		w.	0	0	hv'y	wsw.	clear.
Bk. Franklin, N 39° 20′. W. 57° 45′*†	30.52	775 2				sw.			3		10		sw.	0	0	sm'h		cloudy.
Bk Freya, Baltimore, Md						nw.			3		1		nnw.	0	0			fine.
S. Grecian, Hong Kong, China*†	29.72	754.9	85	29 4		e.			6		8		e.	0	0			fair.
Bk Hattie G. McFarland, Philadelphia, Pa*†	30.20	767.1	70	21.1		n.			1		1		nw	0	0			clear.
S Hedwig, N. 43° 27′, E. 15° 06′	29.85	758.2	77.4	25.2	92	wnw.			3		3		nw.	0	0	sm'h	wnw.	
Bk. Horace Scudder, N 12° 00′, W. 59° 00′†	30.11	764.8	81	27.2		ese.			4		8		e.	10 mi	nutes	mod.	e.	blue sky
S. Ivy, S. 4° 10′, W. 129° 23′†	30.21	767.3	74	23 3		e.			5		1		ese.	0	0	sm'h	s.	clear.
S. Ismir, S. 33° 38′, E. 93° 59′†	30.37	771.4				nnw.			2		10		nnw.	0	0	swell	nw.	fine.
Schr. James Slater, N 9° 40′. W. 52° 19′*†	30.30	769.6	84	28.9		ene.			1		2			0	0	mod	ene.	
Schr. Jennie N. Huddell, Hallowell, Maine†	30.19	766.8	71	21.7	90	nnw.			3		1		w.	0	0			clear.
Bk. Johanne, N. 44° 32′, W. 34° 00′*†	30.15	765 8	69	20.6		sw.			2		1		wnw.	light	light	mod.	sw.	foggy
Schr. John L. Thomas, N. 27° 20′, W. 79° 39′*†	30.14	765.5				se.			2		3		s.	0	0	con.	short	threatening
Bg. John Wesley, St. Jago, Cuba W. I†	29.89	759.2				calm			0		6		se.	½h'r	½h'r			fair.
Bk Joseph A Ropes, S. 15° 44′, W. 33° 09′*†	30.25	768.3	77	25.0	86	se.			5		4		se.	0	0	mod	se.	fair.
Bkt. Josephine, N. 28° 09′ W. 75° 06′†	30.19	766.8	85	29.4	68	sse.			3		2			0	0	mod.	se.	fair.
Bkt. Kryolith, N 45° 19′ W. 59° 09′*†	29.98	761.5				sw.			3		8		wsw.			sm'h		cloudy.
Light House Tender, Laurel, Key West, Fla†	30.16	766.1	84	28.9		e.			2		7		ese.	1 h'r	1 h'r			cloudy.
Bk. Liberia, N. 17° 01′, W. 44° 47′*	30.04	763 0	78	25.6	86	ene.			4		5		ene.	0	0			
S. S. Madrid, N. 45° 29′. W. 37° 00′*†	30.24	768.1	66	18.9		ssw.			4		10			0	0	long	nnw.	dense fog.
S. S. Nebo, N. 36° 41′, W. 1° 45′*†	30.10	764.5				e.			2		0			0	0	sm'h		clear.
S. Orealla, N. 35° 09′, W. 48° 03′*	30.21	767.3	82	27.8		s			1		1		s.	0	0	sm'h		clear.
S. Paramita, N. 9° 15′ W. 120° 20′†	29.84	757.9	76	24.4		s.			3		6		s; sw.	3 h'r	3 h'r	short	sse.	cloudy.
Bk. Sunbeam, N. 38° 02′ W. 74° 06′†	30.25	768.3	74	23.3	85	nne.			5		5		ne.	0	0	sm'h		fair.
S. S. Sunbeam, Odessa, Russia	29.52	749.8	90	32.2	84	e.			1		0							blue sky.
S. Sovereign of the Sea, S. 14° 44′, W. 34° 58′*†	30.12	765.0	79	26.1	90	e.			4		3		e.	mist	mist	r'gh	sse.	clear.
Bg. Teneriffe, Sagua la Grande, Cuba, W. I.	30.08	764.0				sse.			1									
Bk. Truro, N. 45° 00′, W. 48° 45′*†	29.99	761.7				wsw.			3		10			0	0	sm'h		dense fog.
U.S.F.C.S.S. Fish Hawk, N. 35° 07′, W. 73° 10′†	30.34	770.6	75	23.9	85	sw.			1		1		calm	0	0	sm'h	s.	clear.
S. S. Victoria J Peed, Off Fortune Id, W. I*†	30.07	763.8				ne.			5		5							
Schr Viola Reppard, Baltimore, Md†	30.08	764.0	76	24.4		nnw.			3		1			0	0			clear.
Bk. Wm. Wilcox, Buenos Ayres, S. A*†	30.07	763.8	60	15.6		nnw.			3		0			0	0			clear.

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



UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 24, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	29.98	761.5	80.1	26.7	79	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Bouvier.
Algiers	.....	.....	30.00	762.1	81.0	27.2	57	ne.	.....	.....	2	.....	0	.....	.....	0	0	clear	Nicolas.
La Galle	.....	.....	29.96	761.0	75.6	24.2	64	n.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Foufrède.
Tunis	.....	.....	29.96	761.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.05	763.2	96.8	36.0	31	s.	.....	.....	2	.....	0	.....	.....	0	0	clear	Perés.
Tebessa	.....	.....	30.04	762.9	93.2	34.0	24	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Derché.
Geriville	.....	.....	.....	.....	95.4	35.2	10	wnw.	.....	.....	1	.....	4	.....	.....	inap.	inap.	cloudy	Lonchamp.
Laghouat	.....	.....	30.07	763.8	96.4	35.8	25	ne.	.....	.....	1	.....	2	.....	.....	0	0	fair	Abraham.
Biskra	.....	.....	30.06	763.4	97.2	36.2	27	se.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.45	748.0	29.54	750.3	46.4	8.0	87	w.	15	6.7	.....	.....	10	.....	.....	0.10	2.5	showery	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.32	744.8	29.84	758.0	82.4	28.0	58	nw.	.....	.....	2	.....	0	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.14	740.1	29.86	758.5	82.0	27.8	40	e.	4.9	2.2	.....	.....	9	.....	.....	0.008	0.2	thnd'r st'rm	Dr. Wierzbiski.
Eperies	28.99	736.4	29.80	757.0	88.9	31.6	42	calm	.....	.....	0	7 c	0	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.65	727.7	29.83	757.7	79.9	26.6	74	s.	.....	.....	2	.....	2	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.44	722.3	29.76	755.8	87.8	31.0	42	se.	.....	.....	2	.....	5	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.56	725.4	29.83	757.6	77.4	25.2	64	calm	.....	.....	0	.....	3	.....	.....	0.287	7.3	clear	The Staff.
Lemberg	28.93	734.9	29.85	758.2	85.8	29.9	48	se.	.....	.....	1	.....	4	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.76	755.9	29.87	758.6	83.7	28.7	65	w.	.....	.....	2	.....	3	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.34	745.3	29.78	756.4	90.9	32.7	36	sw.	.....	.....	1	.....	1	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.54	750.2	29.80	756.8	87.8	31.0	59	calm	.....	.....	0	.....	0	.....	.....	0	0	.....	Karl Stancel.
Trieste	29.78	756.3	29.88	758.9	84.6	29.2	58	sw.	.....	.....	1	.....	3	.....	.....	0	0	.....	Royal Academy.
Vienna	29.22	742.3	29.91	759.7	75.2	24.0	64	s.	.....	.....	2	.....	9	.....	.....	0.756	19.2	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	29.56	750.8	29.66	753.4	55.7	13.2	80	w.	6	2.7	.....	.....	9	.....	.....	0.175	4.4	showery	W. Boswell
Armagh, Observatory	29.40	746.7	29.64	752.8	56.0	13.3	87	sw.	7	3.1	.....	.....	8	.....	.....	.....	.....	showery	S. Gall.
Bidston, Liverpool Obs'y	.....	.....	.....	.....	58.9	14.9	76	wsw.	26	11.6	.....	.....	6	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.13	739.9	29.05	753.1	55.8	13.2	82	sw.	18	8.0	.....	.....	9	.....	.....	.....	.....	showery	Thomas Mackereth, Jun.
Bradford, Yorkshire	29.24	742.7	29.04	752.8	58.4	14.7	66	sw.	.....	.....	3	.....	6	.....	.....	0.01	0.3	d. clouds	McLandsborough & Pres.
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	84.0	28.9	74	ne.	.....	.....	3	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington	.....	.....	29.72	754.9	67.2	19.6	68	w.	.....	.....	1.0	.....	6	.....	.....	.....	.....	d. clouds.	John McLaren.
Chatham, School M. E.	29.65	753.1	29.78	756.4	66.8	19.3	62	sw.	.....	.....	1	.....	7	.....	.....	blank	blank	d clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.63	752.6	29.85	758.2	62.0	16.7	66	sw.	.....	.....	4	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Fort Napier, Natal	27.58	700.5	29.80	756.9	70.0	21.1	43	w.	.....	.....	6	.....	2	.....	.....	.....	.....	blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.65	753.1	29.88	758.9	86.0	30.0	72	sw.	.....	.....	1	.....	3	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.96	761.0	30.01	762.2	80.5	26.9	74	w.	.....	.....	4	.....	0	.....	.....	.....	.....	blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.32	744.7	29.52	749.8	60.3	15.7	57	w.	.....	.....	5	.....	7	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.61	752.1	29.77	756.1	65.4	18.6	60	ssw.	.....	.....	3	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Guernsey	29.62	752.3	29.91	759.7	63.5	17.5	75	wsw.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.77	756.1	29.80	756.9	57.6	14.2	81	w.	9	4.0	.....	.....	10	.....	.....	.....	.....	thnd'er st'rm	The Staff.
Leicester, Museum	29.42	747.3	29.63	752.6	65.5	18.6	47	sw.	.....	.....	4	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.81	757.2	29.89	759.2	77.4	25.2	84	nw.	.....	.....	2	.....	1	.....	.....	.....	.....	blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.06	763.5	30.10	764.5	82.0	27.8	82	sw.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.20	741.7	29.70	754.4	62.9	17.2	64	sw.	.....	.....	5	.....	5	.....	.....	.....	.....	d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.54	750.3	29.76	755.9	62.3	16.8	66	ssw.	.....	.....	4	.....	7	.....	.....	.....	.....	misty	The Staff.
Plymouth	29.76	755.9	29.83	757.7	63.8	17.7	70	sw.	.....	.....	3	.....	4	.....	.....	.....	.....	d. clouds	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.43	747.5	58.1	14.5	79	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.64	752.8	29.70	754.4	80.8	30.4	61	sw.	.....	.....	1	.....	0	.....	.....	.....	.....	misty	W. H. Lyne.
Sheffield	29.44	747.8	29.72	754.9	61.6	16.4	77	sw.	.....	.....	2	.....	9	.....	.....	0.15	3.8	thnd'rstorm.	W. F. Cooper.
Silloth Rectory	29.56	750.8	29.59	751.6	57.2	14.0	80	wsw.	.....	.....	3	.....	10	.....	.....	0.140	3.6	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.66	753.4	57.0	13.9	81	w.	18	8.0	.....	.....	10	.....	.....	blank	blank	overcast	Rev. S. J. Perry.
Stratfield Turgiss	29.60	751.8	29.81	757.2	55.8	13.2	92	w.	.....	.....	2	.....	10	.....	.....	.....	.....	thnd'rstorm.	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.84	757.9	29.85	758.2	66	18.9	68	w.	.....	.....	7	.....	4	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	29.77	756.1	29.79	756.7	59.2	15.1	74	w.	19	8.5	.....	.....	6	.....	.....	.....	.....	squally	The Met'g'l Office.
CANADIAN.																			
Bathurst, N. B.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.76	755.9	29.80	759.9	69	20.6	74	sw.	7	3.1	.....	2 cs	0	calm	.....	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.75	755.6	29.81	757.2	68	20.0	81	sw.	3	1.3	.....	2 c	0	sw.	.....	0	0	fair	G. A. Blair.
Father Point, Quebec*	29.80	756.9	29.82	757.4	57	13.9	93	calm	0	0	.....	.....	10 s	.....	sw.	0	0	threatening.	J. McWilliams.
Fort Garry, Manitoba*	28.99	736.3	29.78	756.4	64	17.8	93	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	29.77	756.1	29.89	759.2	69	20.6	76	sw.	2	0.9	.....	5 cs	0	.....	.....	0	0	fair	A. Allison.
Kingston, Ontario*	29.72	754.9	30.05	763.3	68	20.0	73	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.73	755.1	29.93	760.2	69	20.6	73	sw.	21	9.4	.....	0	0	.....	.....	0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.38	746.2	30.05	763.3	65	18.3	84	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.38	746.2	30.05	763.3	68	20.0	95	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. Morgan.
Port Stanley, Ontario	29.48	748.8	30.11	764.8	61	16.1	93	w.	1	0.4	.....	5 ck	0	w.	.....	0	0	fair	M. Payne.
Quebec, Quebec*	29.57	751.1	29.87	758.7	68	20.0	90	w.	.....	.....	1	2 k	2 u	ne.	w.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.57	751.1	30.01	762.2	65	18.3	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.37	746.0	30.00	763.5	68	20.0	84	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	
St. Andrews, N. B	29.81	757.2	29.86	758.4	66	18.9	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	
Sydney, C. B*	29.75	755.6	29.80	759.9	69	20.6	73	sw.	8	3.6	.....	2 ck	0	w.	.....	0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.71	754.6	30.08	764.0	67	19.4	73	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.87	758.7	29.94	760.5	60	15.6	90	sw.	1	0.4	.....	0	hz	.....	.....	0	0	clear	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.73	729.7	30.15	765.8	65.0	18.3	84	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	Wm. Wylie.
St. Johns, Newfoundland	29.91?	759.7?	30.15?	765.8?	70?	21.1?	75	sw.	2	0.9	.....	0	0	.....	.....	0	0	fair	John Delany.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.05	763.3	30.08	764.0	60.4	15.8	86	w.	17.2	7.7	.....	0	6 k	.....	.....	0.470	11.9	showery	John Duthie.
Cape Town, C. G. H. Obs'y	29.95	760.7	29.99	761.7	65.6	18.7	69	s.	8	3.6	.....	0	0	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.74	755.4	29.76	756.0	75.4	24.1	97	ssw.	3.4	1.5		10 ck	0	s.		0.602	15.3	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.79	756.7	29.84	757.9	72.7	22.6	66	sw.	11	5			8						Oversergent Fischer.
Fanöe	29.80	756.9	29.82	757.4	64.2	17.9	73	wsw.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	29.51	749.6	29.56	750.7	49.6	9.8	87	calm			0		10			0	0	foggy	S. Kleinschmidt.
Stykkisholm, Iceland	29.63	752.5	29.67	753.6	48.9	9.4	78	w.			2		0						A. O. Thorlacius.
Thorshavn	29.46	748.2	29.49	749.1	52.9	11.6	80	nne.	7	3			10						Overloerer Bergh.
Vestervig	29.62	752.4	29.71	754.7	64.4	18.0	76	ssw.			6		4						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.49	749.1	30.13	765.3	68.4	20.2	71	wnw.			1		kn		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.45	748.0	30.00	762.0	69.8	21	69	sw.			1		n		n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.85	758.3	30.11	764.7	66.2	19.0	92	sw.			3		kn		sw.	0.08	2.		M. Fénéon, Command't.
Avignon, Normal School	29.84	757.8	29.91	759.8	82.4	28	54	n.			2		0			0.055	1.4	clear	M. Girand, Director.
Bar-sur-Seine	29.44	747.8	29.98	761.6	66.6	19.2	46	w.			2		8		w.	0.059	1.5	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.67	753.6	29.93	760.1	68.0	20	51	wsw.			3		5		wsw.	0.071	1.8	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.11	739.3	29.98	761.5	62.2	16.8	81	wsw.			1		10 n		sw.	0.362	9.2	covered	M. Gobin, Director.
Bordeaux, Observatory	29.84	757.8	30.09	764.3	68.4	20.2	47	wsw.			1		8			0.118	3.0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.47	748.6	30.01	762.3	68.0	20	62	w			1		k		w.	0.886	22.5		M. Malet, Director.
Brest, Naval Observatory	29.76	755.9	30.00	762.1	68.0	20.0	65	w.			3		4		w.	0.098	2.5		M. de Kermaree, Dir.
Caen, Normal School	29.93	760.3	30.01	762.3	65.7	18.7	60	sw.			3		5		sw.	0.031	0.8	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.63	752.5	29.94	760.4	68.0	20.0	55	ssw.			4		5		w.	0.228	5.8	cloudy	M. Jadot, Director.
Charleville, Normal School	29.42	747.3	29.92	760.0	65.8	18.8	61	w.			3					0.71	18.		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.71	729.3	30.03	762.8	68.7	20.4	59	w.			2	0	5 k		sw.	0.205	5.2	½ covered	M. Allnard, Director.
Cluny, Normal School	29.22	742.2	30.04	762.9	66.7	19.3	56	wsw.			1		5		w.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.15	740.4	30.00	761.9	60.6	15.9	77	w			1		5 kn	w.	w.	0.20	5.	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.54	699.4	30.00	762.1	68.0	20	59	s.			2	1	9 ks		se.	0.016	0.4		M. Jeangirard, Director.
Gréasque, du Rhone	28.87	733.3	29.94	760.4	81.5	27.5	35	nw.			3		2		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.28	743.7	30.03	762.8	65.1	18.4	80	sse.			1		10 kn		nw.	0.331	8.4	light rain	M. Ablard, Director.
Guéret, Normal School	28.51	724.1	30.07	763.8	62.6	17	70	w.			4		k		w.	0.20	5.		M. Rivoire, Director.
Lamballe, Normal School	29.83	757.7	30.10	764.6	63.0	17.2	81	sw.			4		5		sw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.52	749.8	30.08	763.9	68.9	20.5	69	w.			1		5			0.24	6.	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.93	760.3	30.04	762.9	64.0	17.8	63	w.			1		5		w.	0.059	1.5	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.00	736.7	30.03	762.7	71.4	21.9	71	sse.			1	0	8 n		s.	0.291	7.4	very cloudy	M. André, Director.
Mans, Normal School	29.66	753.4	29.97	761.1	66.7	19.3	55	nw.			4		8		w.	0.161	4.1	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.69	754.1	29.95	760.8	82.2	27.9	38	nw.			2		3		wsw.	0	0		M. Stephan, Director.
Montlouis	24.91	632.6	29.75	755.6	60.8	16.0	70	nw.	11.2	5.0			6	n.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.86	758.4	29.98	761.5	80.2	26.8	46	nw.			2		2	w.				thund'rst'm	M. Galzin, Director.
Nancy, Normal School	29.19	741.3	29.96	760.9	59.0	15.0	82	wsw.			1		kn		w.	0.130	3.3		M. Hasse, Director
Nantes, Observatory	29.97	761.2	30.05	763.3	67.6	19.8	55	wsw.			2–3	0	8 kn; n		w.	0.12	3.		M. Latrocque, Director.
Perpignan, Observatory	29.93	760.2	30.03	762.8	73.6	23.1	49	nw.	20.6	9.2			4		sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.36	542.4			43.2	6.2		s.			2–3		5	ne.	s.	0.287	7.3	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.03	737.4	30.07	763.8	68.4	20.2	80	s.			1		10			0.28	7.	covered,	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.22	640.7			45.1	7.3	90	w.			3		5		w.	0.512	13.0	½ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.15	765.8	30.18	766.6	70.9	21.6	100	wsw.			2		5		s.	0.51	13.	½ covered	Lt. E. Decaute, Director.
Roche-sur-Yon, N. School	29.70	754.3	29.91	759.6	61.9	16.6	98	sw.			1		5		ne.	0.134	3.4	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.95	710.0	30.07	763.8	60.1	15.6	75	w.			1		5		sw.	0	0	fair	M. Seger, Director.
Rouen, Normal School	29.84	757.9	30.28	769.1	67.6	19.8	57	sw.			2		5	s.		0.142	3.6	cloudy	M. Brotier.
Saint Maur, Observatory	29.80	756.8	29.96	761.0	69.6	20.9	54	sw.			1		9		w.	0.146	3.7		M. Renou, Director.
Toulouse, Observatory	29.45	748.0	30.18	766.5	69.1	20.6	68	sw.			1		8		nw.	0.197	5.0	very cloudy	M. Baillaud, Director.
Tours	29.82	757.5	30.00	762.0	69.4	20.8	56	wsw.			2		5	wsw.	wsw.	0.287	7.3	cloudy	M. de Tastes.
Versailles, Observatory	29.47	748.5	29.96	761.0	67.3	19.6	51	w.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.68	753.9	29.97	761.3	71.6	22.0	50	wsw.			2		8		wsw.	0.075	1.9		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.49	723.6	29.85	758.2	80.2	26.8	50	calm			0		5	sw.		0.213	5.4		Prof. Jnedt.
Bamberg	29.05	737.8	29.89	759.3	78.3	25.7	56	sw.			3	0	7 k		w.	0.591	15.0	raining	Prof. Dr. Hoh.
Berlin	29.80	759.8	29.97	761.1	81.1	27.3	48	w.			2		9			0	0		Prof. Dr. Arndt.
Breslau	29.38	746.3	29.91	759.7	84.9	29.4	38	se.			1		2			0	0		Royal University Obs'y.
Carlsruhe	29.46	748.3	29.89	759.1	70.9	21.6	71	sw.			4		10			0.236	6.0	thnd'rstorm	Albert Senz.
Cassel	29.12	739.0	29.83	757.7	72.3	22.4	82	s.			4		8	sw.		0.402	10.2	thnd'r str'm	Dr. H. Möhl.
Frankfort-on-the-Main	29.50	749.2	29.85	758.1	73.4	23.0	77	wsw.			1		6			0.047	1.2		Physical Society.
Friedrichshafen	28.46	722.9	29.82	757.5	75.6	24.2	75	wsw.			2		7	wsw.		0.835	21.2	showery	Wilhelm, Chief Tel.
Hamburg	29.79	756.6	29.88	759.0	70.7	21.5	55	sw.			2		5			0.205	5.2		E. Preller.
Kiel	29.84	757.9	29.85	758.3	70.3	21.3	52	sw.			3		5			0.031	0.8		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.47	748.4	29.87	758.6	81.7	27.6	46	sw.			2		6	wsw.		0	0		H. Leppig, Asst.
Magdeburg	29.66	753.4	29.84	757.9	78.1	25.6	63	e.			1	0	4 k; ks		sw.	0	0		Dr. Assmann.
Memel	29.94	760.4	29.98	761.6	68.9	20.5	75	nw.			3	0	1 k						Issermann
Munich	28.12	714.3	29.98	761.5	71.8	22.1	68	e.			2		4	sw.		0.114	2.9		Dr. C. Lang.
Neufahrwasser	29.94	760.4	29.95	760.8	72.7	22.6	84	e.			2		3			0	0		A. Lothes.
Neustadt, Palatinate	29.32	744.8	29.85	758.1	66.9	19.4	92	nw.			2		9	s.		0.394	10.0	heavy rain	Dicknether.
Stuttgart	28.93	734.7	29.77	756.2	77.9	25.5	60	w.			8		9	w.		0.244	6.2		Prof. Dr. Schoder.
Wustrow	29.86	758.5	29.89	759.1	69.1	20.6	75	wnw.			2	0	8 s			0.354	9.0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.39	746.4			93.0	33.9		ne.			2.0		3			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.55	750.6	29.60	751.9	85.0	29.4	72	wsw.	26.0	11.6			7		w.	0	0	d. clouds	
Deesa	29.12	739.7	29.59	751.6	84.3	29.1	66	sw.	17.0	7.6			5		wsw.	0	0	hazy	
Bombay	29.69	754.2	29.73	755.3	80.7	27.1	87	wsw.	14.0	6.3			10		w.	0.01	0.3	overcast	
Poona, Yarrowda	27.88	708.2	29.75	755.6	74.3	23.5	75	w.	10.0	4.5			10		w.			drizzling	
Trichinopoly	29.47	748.4	29.74	755.4	90.1	32.3	43	w.	5.0	2.2			6			0	0	d. clouds	
Bellary	28.22	716.7	29.66	753.2	88.0	31.1	47	nw.	13.0	5.8			10	sw.		0	0	gloomy	
Belgaum	27.24	691.9	29.80	757.0	69.6	20.9	90	wsw.	11.0	4.9			10		sw.	0.06	1.5	showery	
Lahore	28.77	730.7	29.48	748.8	94.6	34.8	56	e.	3.0	1.3			7			0	0	d. clouds	
Roorkee	28.65	727.6	29.52	749.7	91.2	32.9	68	n.	2.2	1.0			9			0.43	10.9		
Agra	28.97	735.8	29.53	750.0	81.3	27.4	91	se.	2.9	1.3			5		e.	0.41	10.4	d. clouds	
Nagpur	28.57	725.6	29.61	752.1	74.7	23.7	94	sw.	2.6	1.2			10		w.	1.50	38.1	overcast	
Jubbulpore	28.21	716.5	29.55	750.6	80.4	26.9	83	n.	4.6	2.1			10			0.69	17.5	overcast	
Lucknow	29.21	741.9	29.58	751.4	81.2	27.3	93	calm	0.8	0.4			10	s.		1.03	26.2	raining	
Allahabad	29.18	741.2	29.49	749.0	86.5	30.3	77	ne.	1.3	0.6			9	e.		0.27	6.9	d. clouds	
Patna	29.34	745.4	29.53	750.0	86.0	30.0	77	e.	7.4	3.3			6	e.	e.	0.45	11.4	d. clouds	
Hazaribagh	27.48	698.0	29.46	748.4	77.8	25.4	89	ese.	14.5	6.5			10		e.	0.90	22.9	thund'r st'm	
Cuttack	29.44	747.7	29.52	749.7	83.8	28.8	87	ssw.	6.0	2.7			5			1.47	37.3	d. clouds	
Calcutta, Alipore	29.52	749.8	29.54	750.4	84.0	28.9	87	ssw.	5.0	2.2			6		s.	0.24	6.1	d. clouds	
Dhubri	29.49	749.1	29.61	752.0	85.7	29.8	78	calm	6.8	3.0			9			0	0	d. clouds	
Chittagong	29.57	751.2	29.66	753.4	82.2	27.9	86	sse.	7.2	3.2			8			0	0	d. clouds	
Sibsagar	29.22	742.1	29.54	750.4	88.9	31.6	71	ssw.	1.7	0.8			0			0	0	blue sky	
Jeypore	28.14	714.8	29.56	750.9	83.9	28.8	74	nw.	4.0	1.8			10		nw.	0.22	5.6	overcast	
Zanzibar, Africa	30.00	762.0			80.9	27.2	52	sse.	8.1	3.6			4		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.48	748.8	29.87	758.7	87.6	30.9	37	se.	1.3	0.6			1			0	0		Prof. Giovanni Cloding.
Milan	29.38	746.2	29.87	758.7	85.5	29.7	50	se.	5.6	2.5			4	wsw.		0	0		Prof. Schiaparelli.
Padua	29.77	756.1	29.87	758.8	86.9	30.5	44	se.	3.1	1.4			5	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.95	735.4	29.82	757.4	84.9	29.4	39	e.	6.3	2.8			5	n.		0	0		Prof. P. F. Denza.
Genoa	29.75	755.6	29.93	760.3	77.7	25.4	66	sw.	6.3	2.8			6	se.		0	0		Prof. G. M. Garibaldi.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Mondovi	27.99	710.9	29.82	757.5	81.7	27.6	53	sw.			4		0			0	0		Prof. D. C. Bruno.
Pesaro	29.82	757.5	29.87	758.7	80.6	27.0	63	n.	10.5	4.7			0			0	0		Prof. Luigi Guidi.
Florence	29.67	753.7	29.91	759.7	82.4	28.0	47	sw.			2		0			0	0		Prof. Costantino Pitter
Leghorn	29.81	757.2	29.89	759.3	79.3	26.3	63	w.	3.8	1.7			5			0	0		Prof. P. Monte.
Rome	29.73	755.2	29.90	759.5	88.3	31.3	49	wsw.	12.5	5.6			0			0	0		Prof. P. S. Ferrari.
Lecce	29.61	752.1	29.85	758.2	81.9	27.7	52	n.	13.6	6.1			0			0	0		Prof. C. de Giorgi.
Cosenza	29.03	737.3	29.87	758.8	86.4	30.2	73	wsw.	3.8	1.7			0			0	0		Prof. D. Conti.
Cagliari	29.71	754.6	29.89	759.3	81.5	27.5	59	sse.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.71	754.7	29.95	760.8	81.5	27.5	55	ne.	8.7	3.9			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.82	757.3	29.86	758.4	87.4	30.8	52	s.	11.2	5.0			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.39	746.4	29.89	759.1	82.4	28.0	66	ne	0.7	0.3			1			0	0		Prof. T. Brioschi.
Stelvio	22.27	565.7			51.4	10.8	68	w.			2		4			0.366	9.3	misty	Prof. P. F. Denza.
Valdobbia	22.29	566.1			54.9	12.7	74	n.			2		10			0.433	11.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.82	757.4	29.83	757.7	68.0	20.0	97	calm	0	0			10			1.110	28.2	covered	
Hiroshima, I. M. Obs'y					77.0	25.0	83	ssw.	2.2	1.0		0	0			0.103	2.6	clear	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.87	758.7	30.03	762.7	75.7	24.3	78	nw.	2.5	1.1		0	0			0	0	clear	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.74	755.5	29.94	760.4	78.2	25.7	86	ne.	1.5	0.7		0	0			0	0	clear	S. Takehayashi.
Nemuro	29.78	756.4	29.84	757.9	67.8	19.9	73	calm	0	0		10	0			0	0	cloudy	
Niigata	29.93	760.2	29.96	761.0	80.6	27.0	77	w.	8.2	3.7			rock;s		sw.	0.025	0.6	cloudy	M. Morita.
Nobiru	29.92	759.9	29.93	760.3	75.8	24.3	94	s.	4.1	1.9		0	1 s			0	0	fair	H. Midzushina.
Osaka	29.99	761.7	30.00	762.0	79.9	26.6	71	ssw.	2.7	1.2		0	0			0	0	clear	
Supporo					72.0	22.2	48	se.	6.0	2.7			10			0.015	0.4	covered	
Tokei Obs'y, Yeddo	29.89	759.2	29.96	761.0	78.1	25.6	80	ssw.	14.1	6.3		0	1 k			0	0	clear	The Staff.
Wakayama	29.99	761.7	30.04	763.0	79.4	26.3	82	ssw.	3.4	1.5		0	0			0.066	1.7	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.98	761.5	30.17	766.3	72.0	22.2	67	se.	23.0	10.3		6ck;cs	3 k;n	nw.	se.	0	0	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.76	603.6	29.98	761.6	57.6	14.2	93	ene.				0	0			0.158	4.0	clear	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.06	763.5	58.3	14.6	90	ne.			1	5 c	0	nw.		0.043	1.1	½ cloudy	Prof. M. Leal.
Mazatlan	29.75	755.7	30.01	762.2	80.0	26.7	96	s.	0.9	0.4			10 n		e.	0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.16	588.3	30.21	767.4	52.9	11.6	84	calm	0	0		4 c	0			0.012	0.3	clear	The Staff.
Morelia	24.36	618.6	30.50	774.7	57.6	14.2	78	e.			1	1	1	s.	s.	0	0	clear	M. Tena, M. D.
Orizaba	26.11	663.2	30.08	764.1	60.8	16.0	88	calm	0	0		0	0			0.729	18.5	foggy	Prof. M. M. Cházaro.
Pabellon, Aguascallentes	24.04	610.6	30.03	762.8	60.4	15.8	78	wsw.			1	2 c	0	e.		0	0	clear	M. Y. de Leon, M. E
Puebla, Catholic Institute	23.46	595.9	30.27	768.8	51.4	10.8	89	calm	0	0		0	0			0.051	1.3	clear	Prof. P. Spina.
San Luis Potosi	24.28	616.8	30.28	768.7	62.6	17.0	56	e.				5	3	w.	e.	0	0	cloudy	G. Barroeta, M. D
Zacatecas	22.75	577.3	30.33	770.9	61.8	16.6	76	n.	7.8	3.4		4 s	0			0	0	½ cloudy	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	29.87	758.6	29.87	758.6	67.1	19.5		wsw.			4					0.157	4.0		
Groningen	29.80	756.8	29.85	758.2	66.6	19.2		sw.			3					0.079	2.0		
Helder	29.82	757.3	29.82	757.3	63.7	17.6		ssw.			4					0	0		
Hellevoetsluis	29.85	758.2	29.85	758.2	66.0	18.9	71	wsw.			2					0.059	1.5		
Utrecht	29.82	757.5	29.87	758.7	67.8	19.9	64	ssw.			2		8			0	0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.53	750.0	29.59	751.6	64.4	18.0	67	ssw.	25	11			7			0.669	17.0	raining	
Brono	29.61	752.1	29.65	753.1	59.4	15.2	78	nnw.	9	4			10			0	0		
Christiania	29.59	751.5	29.73	755.1	67.1	19.5	77	s.	4	2			10			0.433	11.0		
Gjæsvær	29.63	752.6	29.65	753.2	70.0	21.1		calm			0		1						
Lodingen	29.61	752.0	29.65	753 2	63.1	17.3	56	wsw.			4		8			0	0		
PORTUGUESE.																			
Angra, Azores					72.7	22.6	88	w.	6.3	2.8			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.02	737.1	29.97	761.3	82.8	28.2	28	wnw.	4.3	1.9			4			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.11	764.7	30.19	766.9	73.0	22.8	67	sw.	5.6	2.5			1			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29 79	756.6	30.14	765.6	69.8	21.0	44	n.	18.6	8.3			0			0	0		The Staff.
Ponta Delgada, Azores	30.26	768.6	30.33	770.4	75.2	24.0	69	wnw.	7.4	3.3			4			0	0		
Saint Paul de Loando	29.82	757.4	30.02	762.5	75.0	23.9	67	nw.	0.7	0.3			0			0	0		
Serra da Estrella	25.39	644.9	29.99	761.8	61.9	16.6	59	nnw.	4.3	1.9			6			0	0		
RUSSIAN.																			
Akmolinski	28.98	736.2	30.02	762.5	72.3	22.4	42	ne.	7	3		1 c	0			0	0		Major K. Lasarew.
Archangel	29.91	759.7	29.93	760.2	62.4	16.9	83	ne.	4	2			10			0.236	6.0		Capt. Sselliwerstow
Astrakhan	30.04	762.9	29.95	760.8	90.5	32.5	43	se.	13	6		0	0			0	0		Capt. Wisganow.
Barnaul	29.40	746.8	29.89	759.1	64.9	18.3	79	w.	4	2			6			0.118	3.0		Meteorological Obs'y.
Dorpat	29.77	756.1	30.00	762.0	73.0	22.8	74	s.	2	1		0	8 ks			0	0		Observatory.
Ekaterinburg	29.15	740.5	30.07	763.7	81.1	27.3	31	wsw.	9	4		0	1 ks			0	0		Meteorological Obs'y.
Irkutsk	28.32	719.2	29.91	759.7	63.9	17.7	83	calm	0	0		0	8k;ks;n			0.169	4.3		
Kasan	29.76	756.0	30.01	762.3	91.0	32.8	27	ssw.	2	1		0	2			0	0		Observatory.
Kertch	29.67	753 6	29.69	754.1	83.7	28.7	78	sse.	4	2		5 ck	0			0	0		Lagorio & Sastyrez.
Kieff	29.25	743.0	29.84	757.9	86.9	30.5	37	nne.	7	3		cs	1 k			0	0		Observatory.
Lugan	29.60	751.7	29.78	756.5	94.6	34.8	17	ese.	18	8			7			0	0		Meteorological Obs'y
Moscow	29.45	748.0	29.88	759.0	88.7	31.5	46	calm	0	0			3 s						Meteorological Obs'y.
Nikolaiev	29.71	754.6	29.78	756.4	93.2	34.0	32	ene.	13	6		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.56	750.8	29.70	754.4	83.5	28.6	77	calm	0	0		0	0			0	0		Physical Observatory
St. Petersburg	29.94	760.5	29.96	760.9	70.5	21.4	82	nnw.	13	6		0	1 kn			0.008	0.2		Central Physical Obs'y
Semipalatinsk	29.34	745.3	29.97	761.1	78.4	25.8	45	wnw.	13	6			4			0	0		Major Lasarew
Tashkend, Laboratory	28 24	717.3	29.70	754.3	88.7	31.5	30	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.47	723.2	29.79	756.6	93.0	33.9	29	s.	4	2		0	1 k			0	0		Physical Observatory
Vladivostock	29.64	752.8	29.71	754.5	67.6	19.8	82	ese.	9	4		0	8 n						
Warsaw	29.51	749.6	29.91	759.7	80.8	27.1	51	nne.	4	2		7 ck	0			0	0		Astronomical Obs'y
Wilna	29.55	750.6	29.95	760.6	79.9	26.6	64	n.	2	1			2						Berg, Assistant.
Yeniseisk	29.46	748.2	29.73	755.2	63.0	17.2	95	wsw.	18	8			10			0.441	11.2	raining	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.90	759.4	30.00	762.0	81.0	27.2	68	se.	4.7	2.1			2					clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.12	765.1	30.18	766.6	71.4	21.9	56	w.	2.7	1.2		2	7	n.		0.169	4.3	almost cov.	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.17	690.0	30.06	763.6	67.6	19.8	57	ne.	3.1	1.4			3			0	0	clouds	Domingo Martin.
Madrid, Royal Obs'y	27.81	706.3	29.91	759.7	84.2	29.0	37	calm	2.2	1.0		0	1			0	0	light clouds	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director.
Santiago, Met. Obs'y	29.20	741.6	30.08	763.9	67.1	19.5	65	calm	0	0			9			0.480	12.2	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I																			Benito Vines, S. J.
Manilla, Philippine Islands	29.78	756.3	29.83	757.7	79.8	26.6	82	sw.	11.0	4.9			9 kn		ssw.	0.346	8.8	threatening.	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.93	760.2	30.03	762.6	79.0	26.1	57	w.	3.5	1.6		0	3		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.99	761.8	30.08	764 1	78.4	25.8	91	calm	0	0		0	2 kn		se.	0.118	3.0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.66	753.4	29.79	756.7	81.8	27.7	84	s.	3.2	1.4		0	5 k		sw.	0.03	0.8	cloudy	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.89	759.1	29.83	760.1	65.8	18.8	60	sw.			4		0			0	0		
Umea	29.84	758.0	29.89	759.3	82.87	28.87	26	sw.			4		0			0	0		
Hernosand	29.79	756.7	29.84	758.0	66.9	19.4	68	s.			6		5			0	0		
Stockholm	29.75	755.7	29.93	760.2	71.6	22.0	61	s.			4		0			0	0		
Wisby	29.84	758.0	29.90	759.5	74.8	23.8	60	sse.			4		0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Sub-series.																			
Upsala	29.78	756.4	29.87	758.6	76.1	24.5	47	s.	17.4	7.8			3	sw.		0	0		S. G. Fineman.
SWISS.																			
Geneva	28.64	727.5	30.04	763.1	62.2	16.8	85	se.			1					0.202	5.2	covered	The Observatory
SCOTTISH.																			
Monach Lt			29.53	750.0	59	15.0	94	nw.			4	5	5	nw.				showery	J. Youngclause.
North Unst			29.46	748.3				s.			3					blank	blank		
TURKISH.																			
Constantinople			29.80	756.9	86.4	30.2	53	n.	6	2.5			0			0	0		The Observatory.
Valona			30.00	761.9	83.3	28.5		w.			2		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.79	756.6	86.0	30.0	52	w.			1	0	2 k		sw.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.00	762.0	30.08	764.0	73.5	23.1	61	w.	2	0.9		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.41	747.0	30.05	763.3	66	18.9	68	sw.	10	4.5		4 k	0	w.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.17	639.3	29.91	759.7	63	17.2	93	e.	1	0.4			10 s		calm	1.20	30.5	cloudy	W. O. Barnes.
Assinnaboine, Ft., Montana	27.10	688.3	29.83	757.7	69	20.6	45	sw.	22	9.8		1 k	9 s	sw.	sw.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.98	736.1	30.13	765.3	67.0	19.4	84	e.	9	4.0		7 c	0			0	0	fair	H. Hall.
Atlantic City, New Jersey	30.07	763.8	30.08	764.0	73	22.8	66	sw.	4	1.8		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.96	761.0	30.15	765.8	71.0	21.7	82	ne.	3	1.3			10 s		sw.	0	0	cloudy	John Healy.
Baltimore, Maryland	30.10	764.5	30.14	765.5	77	25.0	52	n.	3	1.3		0	sk.			0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.06	763.5	30.08	764.0	73.0	22.8	73	nw.	6	2.7		0	0			0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.25	717.5	29.79	756.7	66	18.9	90	se.	2	0.9		5 c	0		calm	0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.11	688.6	29.82	757.4	64	17.8	78	w.	6	2.7		0	6 s		sw.	0.01	0.3	fair	G. W. Davis.
Behring Island, Behring Sea	29.60	751.8	29.62	752.3	51.8	11.0		s.	11	4.9			10 k		sw.	0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.07	713.0	29.79	756.7	67	19.4	90	e.	5	2.2			10 s			0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.00	762.0	30.03	762.7	70.8	21.6	71	sw.	7	3.1		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.18	690.4	29.90	759.4	67	19.4	61	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.86	758.4	30.02	762.5	70.0	21.1	61	w.	11	4.9		2 c	hz.	w.		0	0	clear	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	79.0	26.1	97	calm	0	0			10 s		s.	0	0	cloudy	M. McCarty.
Buffalo, New York	29.38	746.2	30.11	764.8	70	21.1	63	s.	9	4.0		0	hz.			0	0	clear	Wm. Finn.
Buford, Fort, Dakota	27.89	708.4	29.83	757.7	68	20.0	76	n.	7	3.1		10 cs	0		calm	0	0	cloudy	A. H. Bell.
Burlington, Vermont	29.72	754.9	30.00	762.0	72.3	22.4	65	sw.	8	3.6		1 ck	0		nw.	0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.78	756.4	30.17	766.3	70.7	21.5	80	ne.	3	1.3		0	0			0	0	clear	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.26	692.4	29.85	758.2	71	21.7	90	e.			1	2 cs	1 ks			0.05	1.3	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.11	764.8	30.13	765.3	72	22.2	82	w.	5	2.2		4 c	3 s	sw.		0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.08	764.0	30.10	764.5	72.8	22.7	84	w.	4	1.8		2 cs	0			0	0	clear	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	30.00	762.0	30.02	762.5	77	25.0	85	e.	11	4.9		0	9 k		e.	0.66	16.8	cloudy	F. W. Mixer.
Champaign, Illinois	29.35	745.5	30.14	765.5	66.8	19.3	66	sw.	2	0.9		0	0			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.03	762.7	30.08	764.0	74	23.3	85	ne.	10	4.5			10 s		ne.	0.11	2.8	threatening	J. H. Smith.
Charlotte, N. Carolina	29.29	744.0	30.12	765.0	66.0	18.9	84	ne.	4	1.8		6 ck	sk.	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.35	745.5	30.15	765.8	68.0	20.0	87	calm	0	0		1 cs	sk.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.18	614.2	29.88	758.9	64.3	17.9	52	nw.	8	3.6		5 c	0	w.		0	0	fair	E. McGovern.
Chicago, Illinois	29.42	747.3	30.11	764.8	69.4	20.8	60	sw.	4	1.8		2 k	0	sw.		0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.09	764.3	30.11	764.8	73	22.8	82	nw.	6	2.7		4 c	0	s.		0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.54	750.3	30.18	766.6	67.2	19.6	78	e.	2	0.9		0	0			0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.44	747.8	30.16	766.1	66.4	19.1	61	s.	4	1.8		1 c	0			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.27	718.0	30.03	762.7	70	21.1	100	se.	2	0.9		6 cs	0	se.		0.20	5.1	fair	L. Dorman.
Columbus, Ohio	29.33	745.0	30.16	766.1	64	17.8	78	nw.	1	0.4		0	8 ks			0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.15	715.0	30.03	762.7	72	22.2	94	e.	4	1.8		5 k	2 s	s.		0.05	1.3	cloudy	W. W. McConihe.
Custer, Fort, Montana	26.76	679.7	29.78	756.4	69	20.6	52	sw.	8	3.6		3 k	0	calm		0.04	1.0	clear	V. Verge.
Davenport, Iowa	29.45	748.0	30.08	764.0	69	20.6	78	sw.	3	1.3		0	sk.		sw.	0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.25	641.3	29.89	759.2	66	18.9	70	n.	3	1.3		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.32	719.3	30.03	762.7	57.7	14.3	58	sw.	5	2.2		3 k	0	w.		inap.	inap.	clear	H. Clifford.
Deadwood, Dakota	25.36	644.1	29.78	756.4	74.0	23.3	76	s.	10	4.5		4 k	0	w.		0	0	fair	G. W. Scott.
Decatur, Texas																0	0		D. J. Carr.
Delaware Breakwater, Del.	30.08	764.0	30.10	764.5	71	21.7	82	w.	5	2.2		2 c	0	w.		0	0	clear	A. Schneider.
Denison, Texas	29.29	744.0	30.07	763.8	70.8	21.6	84	calm	0	0		5 ck	0			0.18*	4.6*	fair	J. McGlone.
Denver, Colorado	24.83	630.7	29.84	757.9	68.5	20.3	45	s.	6	2.7		0	6 s			0	0	fair	F. M. Neal.
Des Moines, Iowa	29.19	741.4	30.07	763.8	66	18.9	78	sw.	4	1.8		7 cs	0	w.		0	0	fair	F. W. Conrad.
Detroit, Michigan	29.46	748.3	30.14	765.5	69.0	20.6	76	s.	1	0.4		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.43	696.7	29.93	760.2	67.0	19.4	85	sw.	14	6.3		0	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.39	746.5	30.08	764.0	66.8	19.3	70	sw.	1	0.4		0	fg.			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.12	739.6	29.84	757.9	73	22.8	76	sw.	9	4.0		4 cs	0	sw.		0.17	4.3	fair	N. B. Conger.
Eagle Pass, Texas	29.25	742.9	30.04	763.0	77.0	25.0	82	se.	2	0.9		0	1 s			c	0	clear	F. Belford.
Eagle Rock, Idaho	25.34	643.6	29.89	759.2	57	13.9	62	sw.	14	6.3		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.81	757.2	29.87	758.7	71.0	21.7	71	sw.	4	1.8		3 c	0			0	0	clear	D. U. Murphy.
Elliott, Fort, Texas	27.36	694.9	30.00	762.0	64	17.8	73	se.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.36	669.5	29.96	761.0	70	21.1	62	ne.	2	0.9		2 c	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.42	747.3	30.13	765.3	71	21.7	53	s.	2	0.9		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.32	744.7	29.96	761.0	67	19.4	78	s.	8	3.6		6 k	3 s	w.		0	0	cloudy	C. Dill.
Fredericksburg, Texas	28.33	719.6	30.03	762.7	75	23.9	88	calm	0	0		5 cs	0			0.09	2.3	fair	H. S. Miles.
Galveston, Texas	29.90	761.0	30.01	762.2	70.5	24.7	88	ne.	12	5.4		2 c	3 k	ne.		0.15	3.8	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.44	747.8	30.09	764.3	73.0	22.8	76	s.	10	4.5		0	1 k		w.	0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.32	643.1	29.89	759.2	66.4	19.1	76	ne.	3	1.3		4 ck	3 s			0.03	0.8	fair	Robert O. Lord.
Hatteras, North Carolina	30.08	764.0	30.10	764.5	73.0	22.8	82	ne.	16	7.2		5 cs	4 k	ne.	e.	0	0	cloudy	R. M. Crawford.
Helena, Montana	25.85	656.6	29.91	759.7	60	15.6	48	w.	6	2.7		0	0			0.05	1.3	clear	S. Wheaton.
Henrietta, Texas	29.12	739.6	30.10	764.5	73.0	22.8	76	se.	3	1.3		6 ck	0			0	0	fair	J. W. Byram.
Huron, Dakota	28.55	725.2	29.87	758.7	63.6	17.6	84	s.	6	2.7		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.37	746.0	30.14	765.5	68	20.0	70	calm	0	0		1 k	hz.	se.		0	0	dense haze	O. Schutze
Indianola, Texas	29.99	761.7	30.02	762.5	75.2	24.0	90	ne.	13	5.8		4 cs	2 ks	n.		0.02	0.5	fair	I. A. Reed.
Jacksboro, Texas	28.94	735.1	30.06	763.5	70	21.1	94	e.	1	0.4		6 k	0			inap.	inap.	fair	J. P. Sherry.
Jacksonville, Florida	29.99	761.7	30.03	762.7	77	25.0	90	ne.	2	0.9			10 s			0.77	19.6	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.31	693.7	29.72	754.9	72	22.2	48	n.	2	0.9		3 c	0	n.		0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.46	748.3	30.09	764.3	69.5	20.8	67	s.	1	0.4		0	0			0	0	clear	F. Z. Gosewisch
Key West, Florida	29.98	761.5	30.00	762.0	83.0	28.3	74	se.	4	1.8		4 c	2 k	se.		0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.11	764.8	30.13	765.3	72.0	22.2	90	ne.	8	3.6		5 ck	2 s	n.		0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.16	740.7	30.10	766.1	63.8	17.7	85	ne.	5	2.2		2 ck	0	ne.		0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.26	743.2	30.01	762.2	74	23.3	55	s.	8	3.6		0	2 s			0	0	clear	S. C. Emery.
La Mesilla, New Mexico	26.20	665.5	29.94	760.5	67.0	19.4	76	calm	0	0		4 c	5 s			0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.21	741.9	30.07	763.8	68	20.0	73	s.	3	1.3		6 cs	4 k		s.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.22	742.2	30.03	762.7	60.0	15.6	44	e.	3	1.3		0	0			0.02	0.5	clear	W. Bell.
Little Rock, Arkansas	29.79	756.7	30.10	764.5	70	21.1	84	n.	4	1.8		0	6 s			0	0	fair	W. U. Simons.
Los Angeles, California	29.64	752.8	30.03	762.7	54.2	12.3	80	n.	2	0.9		0	2 s			0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.60	751.8	30.15	765.8	68	20.0	84	calm	0	0			sk.			0	0	dense smoke	H. C. Smyth.
Lynchburg, Virginia	29.50	749.3	30.17	766.3	68.0	20.0	72	calm	0	0		hz.	0			0	0	clear	W. R. Bushby.
Macon, Fort, North Carolina	30.09	764.3	30.10	764.5	72	22.2	90	ne.	9	4.0			10 s			0	0	cloudy	F. P. Chaffee.
Madison, Wisconsin	29.10	739.1	30.08	764.0	65	18.3	78	sw.	7	3.1		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.69	652.5			64	17.8	55	n.	14	6.3		3 cs	0			0.16	4.1	clear	H. W. Dodge.
McKavett, Fort, Texas	27.87	707.9	30.07	763.8	73	22.8	90	calm	0	0			10 s			0.02	0.5	cloudy	J. E. Thatcher.
Marquette, Michigan	29.18	741.2	29.89	759.2	67	19.4	63	sw.	22	9.8		7 k	0	sw.		0	0	fair	J. Gilligan.
Memphis, Tennessee	29.79	756.7	30.12	765.0	70	21.1	76	ne.	4	1.8		0	1 k		ne.	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.36	745.7	30.09	764.3	70	21.1	71	sw.	9	4.0		0	sk.			0	0	clear	W. Line.

* Total for three days.

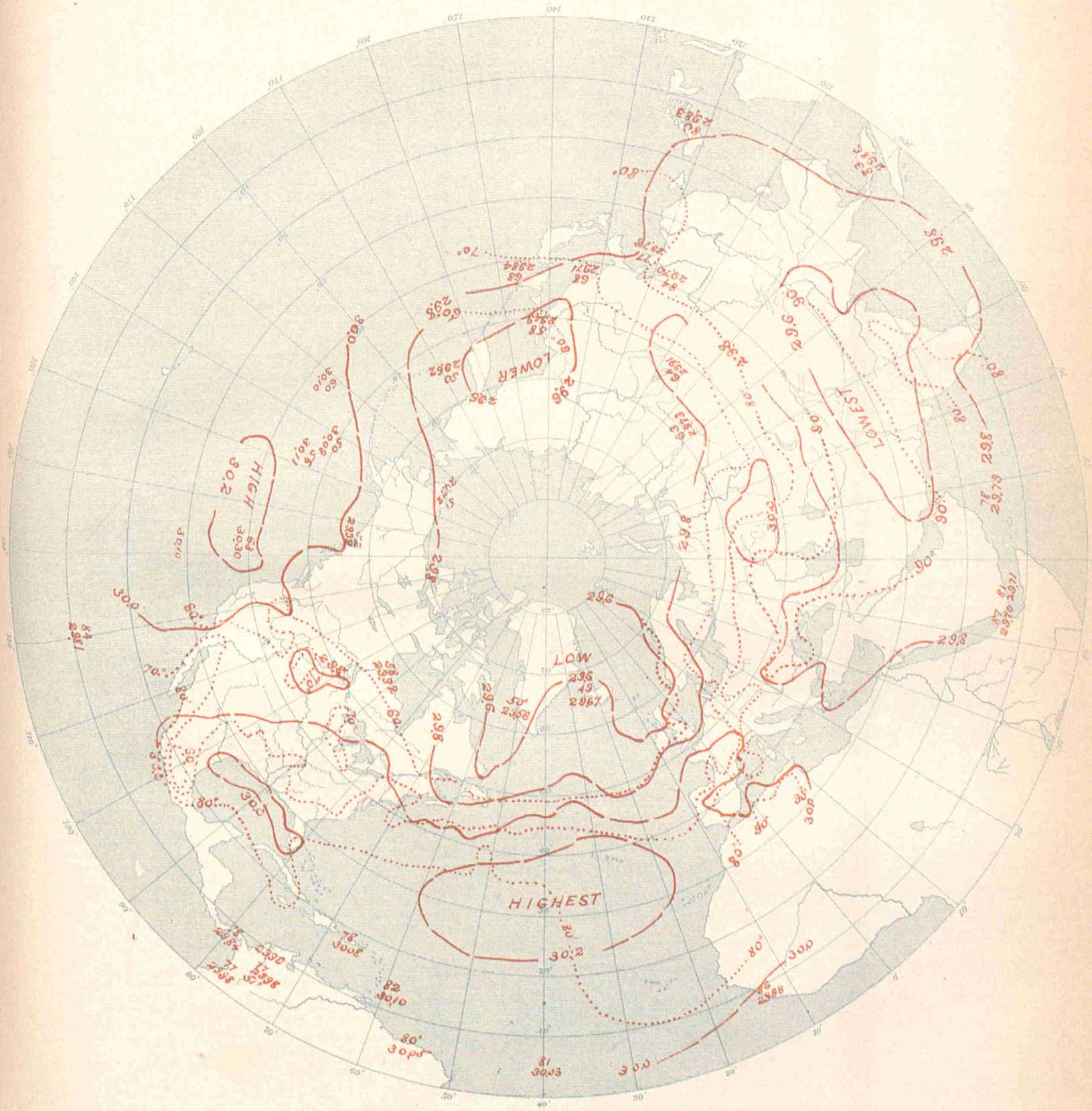
STATIONS.	Barometer: Corrected for instrumental error and for temperature.		Barometer: Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS
								Direction.	Velocity.		Force.	Amount and kind.		Direction.					
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.70	678.2	29.89	759.2	61	16.1	52	s.	2	0.9	.....	0	0	.....	.....	0.15	3.8	clear	J. H. Jones.
Mobile, Alabama	29.98	761.5	30.02	762.5	72	22.2	97	ne.	8	3.6	.....	.....	10 s	.....	ne.	1.22	31.0	cloudy	C. A. Read.
Montgomery, Alabama	29.85	758.2	30.07	763.8	68.0	20.0	90	e.	3	1.3	.....	7cs; ha.	0	w.	.....	0.01	0.3	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.89	733.8	29.85	758.2	66	18.9	84	calm	0	0	.....	7 k	0	.....	.....	0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.22	742.2	30.22	767.6	62.5	16.9	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.91	607.3	29.98	761.5	48.0	8.9	96	nw.	51	22.8	.....	.....	fg.	.....	nw.	0.11	2.8	dense fog	J. G. Linsley.
Nashville, Tennessee	29.61	752.1	30.13	765.3	64.0	17.8	84	calm	0	0	.....	0	4 ks	.....	w.	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.95	760.7	30.06	763.5	70	21.1	66	calm	0	0	.....	0	sk.	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	29.99	761.7	30.04	763.0	76	24.4	64	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.95	760.7	30.00	762.0	72.0	22.2	84	n.	7	3.1	.....	.....	10 s	.....	n.	0.92	23.4	cloudy	L. Dunne.
Newport, Rhode Island	29.98	761.5	30.03	762.7	74.7	23.7	57	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. McGillivray.
New York, New York	29.92	760.0	30.09	764.3	75	23.9	56	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.10	764.5	30.14	765.5	74	23.3	71	e	2	0.9	.....	5 cs	0	w.	.....	0	0	fair	H. L. Kemp.
North Platte, Nebraska	27.09	688.1	29.89	759.2	63.6	17.6	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y.	29.96	761.0	29.99	761.7	56.0	13.3	93	s.	9	4.0	.....	.....	10 n	.....	s.	0.02	0.5	light rain	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.76	755.9	29.78	756.4	50.7	10.4	100	se.	10	4.5	.....	6 cs	4 s	.....	sw.	inap.	inap.	cloudy	P. H. Ray.
Omaha, Nebraska	28.87	733.3	30.00	762.0	68.0	20.0	81	s.	5	2.2	.....	0	3 k; ks	.....	.....	0.02	0.5	clear	A. Pollak.
Oswego, New York	29.76	755.9	30.08	764.0	70.0	21.1	76	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.55	750.6	30.09	764.3	70.0	21.1	87	ne.	8	3.6	.....	4 k	0	e.	.....	inap.	inap.	fair	L. M. Pindell.
Pensacola, Florida	29.98	761.5	30.01	762.2	71.2	21.8	97	ne.	7	3.1	.....	.....	10 s	.....	ne.	1.47	37.3	cloudy	M. McGauran.
Philadelphia, Pa.	30.03	762.7	30.13	765.3	76	24.4	56	nw.	4	1.8	.....	0	fg.	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.09	459.5	29.87	758.7	35	1.7	85	sw.	24	10.7	.....	0	6 s	.....	sw.	inap.	inap.	fair	L. M. Dey.
Ploche, Nevada	24.15	613.4	29.88	758.9	64.5	18.1	52	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.38	746.2	30.17	766.3	61.7	16.5	87	w.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	J. H. Bryce.
Poplar River, Montana	27.76	705.1	.....	.....	.....	.....	.....	se.	.....	.....	6	.....	10 s	.....	se.	0	0	cloudy	W. D. Maxwell.
Port Eads, Louisiana	29.96	761.0	29.98	761.5	76.5	24.7	89	n.	10	4.5	.....	3 c	2 ks	nw.	n.	2.06	52.3	fair	M. Hermann.
Port Huron, Michigan	29.46	748.3	30.12	765.0	67.1	19.5	70	sw.	2	0.9	.....	7 cs	0	nw.	.....	0	0	fair	W. O. Bailey.
Portland, Maine	29.89	759.2	29.94	760.5	73	22.8	68	w.	6	2.7	.....	2 c	0	w.	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.03	762.7	30.10	764.5	59.0	15.0	75	s.	12	5.4	.....	.....	10 s	.....	s.	0	0	cloudy	M. L. Hearne.
Prescott, Arizona	24.94	633.5	29.92	760.0	66	18.9	70	e.	1	0.4	.....	.....	10 ks	.....	e.	0	0	cloudy	J. McN. Wright.
Provincetown, Mass.	29.98	761.5	30.01	762.2	72.0	22.2	62	nw.	7	3.1	.....	1 cs	2 s	w.	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	29.98	761.5	29.99	761.7	76.5	24.7	82	e.	8	3.6	.....	2 c	1 k	calm	calm	0.09	2.3	clear	W. J. Evans.
Red Bluff, California	29.70	754.4	30.06	763.5	63.2	17.3	50	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.78	756.4	30.01	762.2	81.3	27.4	77	e.	4	1.8	.....	0	4 ks	.....	e.	0	0	fair	P. M. Wilson.
Rochester, New York	29.44	747.8	30.09	764.3	68	20.0	70	w.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	E. W. McGann
Roseburg, Oregon	29.59	751.6	30.13	765.3	58.5	14.7	84	calm	0	0	.....	.....	10 s	.....	sw.	inap.	inap.	threatening	J. J. Nanry.
Sacramento, California	29.97	761.2	30.04	763.0	58.2	14.6	70	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.57	751.1	30.15	765.8	67.5	19.7	91	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.06	738.1	29.90	759.4	69	20.6	78	s.	9	4.0	.....	1 cs	0	.....	.....	0	0	clear	P. F. Lyons
St. Vincent, Minnesota	28.98	736.1	29.82	757.4	64	17.8	90	w.	6	2.7	.....	0	0	.....	.....	0.16	4.1	clear	G. Kingsbury.
Salt Lake City, Utah	25.70	652.8	29.88	758.9	71	21.7	51	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.34	745.2	30.02	762.5	74.5	23.6	97	calm	0	0	.....	.....	10 s	.....	n.	0	0	cloudy	T. J. Kenan.
San Diego, California	29.92	760.0	29.99	761.7	62.7	17.1	91	sw.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.49	749.0	30.15	765.8	68.8	20.4	61	s.	9	4.0	.....	0	0	.....	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.06	763.5	30.08	764.0	74.0	23.3	82	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	B. A. Blundon.
San Francisco, California	30.05	763.3	30.12	765.0	54	12.2	86	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.42	594.9	29.92	760.0	64	17.8	52	calm	0	0	.....	8 ck	0	ne.	.....	0	0	cloudy	H. U. Jones.
Savannah, Georgia	29.97	761.2	30.06	763.5	72	22.2	90	ne.	6	2.7	.....	.....	10 s	.....	ne.	0.10	2.5	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.34	669.0	29.85	758.2	61	16.1	52	sw.	28	12.5	.....	5 k	0	w.	.....	0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.84	757.9	30.07	763.8	71	21.7	82	ne.	2	0.9	.....	1 c	0	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.87	733.3	30.07	763.8	70.3	21.3	86	calm	0	0	.....	9 ck	0	w.	.....	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.41	620.0	29.87	758.7	62	16.7	60	e.	4	1.8	.....	3 k	0	calm	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.93	760.2	29.99	761.7	51.5	10.8	86	calm	0	0	.....	.....	10 n	.....	sw.	0.28	7.1	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.64	752.8	30.10	764.5	64.8	18.2	90	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.06	763.5	30.09	764.3	71	21.7	84	ne.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.01	711.4	29.99	761.7	59	15.0	60	s.	11	4.9	.....	0	5 s	.....	.....	0	0	fair	D. Moore.
Springfield, Illinois	29.47	748.5	30.13	765.3	68.5	20.3	63	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.92	760.0	30.05	763.3	73.2	22.9	66	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo.	28.72	729.5	30.11	764.8	64	17.8	84	se.	2	0.9	.....	7 k	0	se.	.....	0	0	fair	J. B. Marbury.
Starkville, Miss.	29.62	752.3	30.10	764.5	72	22.2	90	ne.	4	1.8	.....	2 cs	0	n.	.....	0.01	0.3	clear	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.00	711.2	29.78	756.4	65	18.3	90	ne.	4	1.8	.....	9 cs	0	ne.	.....	0	0	cloudy	W. Burrows
Stockton, Fort, Texas	27.07	687.6	30.01	762.2	66.5	19.2	93	sw.	2	0.9	.....	0	2 s	.....	sw.	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.95	760.7	30.00	762.0	73.0	22.8	79	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	G. Liebmann
Toledo, Ohio	29.46	748.3	30.13	765.3	72	22.2	57	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.56	700.0	29.88	758.9	75	23.9	76	s.	3	1.3	.....	0	4 ks	.....	.....	0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.73	755.1	30.09	764.3	61	16.1	50	sw.	12	5.4	.....	3 c	1 s	w.	.....	0	0	fair	J. Daly.
Uvalde, Texas	29.07	738.4	30.01	762.2	75	23.9	90	e.	4	1.8	.....	.....	10 ks	.....	ne.	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	69.9	21.1	42	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.83	757.7	30.07	763.8	72	22.2	90	e.	1	0.4	.....	hz.	0	.....	.....	0	0	clear	H. P. Brisbane.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.56	623.8	29.90	759.4	60.1	15.6	58	sw.	6	2.7	.....	3 k	0	sw.	.....	0.02	0.5	clear	T. M. Ambler.
Washington, D. C.	30.04	763.0	30.15	765.8	71.6	22.0	66	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	B. M. Purssell.
West Las Animas, Colorado	26.08	662.4	29.84	757.9	64.9	18.3	70	w.	4	1.8	.....	1 c	0	w.	.....	0	0	clear	F. W. Brandenburg.
Williamsport, Pa.	29.55	750.6	30.13	765.3	64	17.8	75	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.06	763.5	30.11	764.8	70	21.1	84	ne.	5	2.2	.....	.....	10 ka; fg	.....	.....	0	0	cloudy	A. T. Sherwood.
Winnemucca, Nevada	25.73	653.5	29.95	760.7	47.5	8.6	38	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.68	728.5	29.95	760.7	69	20.6	76	calm	0	0	.....	0	0	.....	.....	0.01	0.3	clear	J. H. Atfield.
Yuma, Arizona	29.72	754.9	29.80	758.4	82.3	27.9	76	calm	0	0	.....	5 ck	4 s	.....	.....	0	0	cloudy	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.10	561.3	.....	.....	51.0	10.6	72	s.	2	0.9	.....	3 ck	3ks; s	se.	w.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.09	764.3	30.10	764.5	82	27.8	91	ne.	.....	.....	.....	5 k	5 ks	e.	.....	0.67	17.0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.95	760.7	29.98	761.5	77	25.0	90	calm	0	0	.....	.....	10 ks	.....	calm	0	0	cloudy	J. I. Plume.
Kingston, Jamaica, W. I.	30.04	763.0	30.05	763.3	78.2	25.7	85	calm	0	0	.....	2 c; cs	7 ks; n	.....	nnw.	0	0	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	70	21.1	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa	29.90	759.4	29.98	761.5	81	27.2	70	e.	14	6.3	.....	6 k	4 cs	se.	ne.	0	0	cloudy	F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	80	26.7	87	se.	.....	.....	2	4 c	5 k	e.	e.	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.42	747.3	29.98	761.5	77	25.0	84	calm	.....	.....	0	.....	10 ks	.....	calm	0.11	2.8	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	94	ne.	.....	.....	3	2 ck	0	se.	.....	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	30.05	763.3	30.08	764.0	77	25.0	85	sw.	6	2.2	.....	3 cs	6 n	.....	.....	0.11	2.8	cloudy	Robert Mason.
York Factory, B. A.	29.86	758.4	29.92	760.0	58.0	14.4	94	w.	10	4.5	.....	4 k	2 s	nw.	nw.	0.50	12.7	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, S. 6° 10′ W. 13° 05′	30.13	765.3	76.8	24.9	73	ese.			2-3		6							d. clouds.
H. M. S. Amethyst, Montevideo, Uruguay	30.29	769.4	44.5	6.9	79	ne.			2		2	nw.						d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.85	758.2	87	30.6		nnw.			2		2							d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.31	769.9	60	15.6		ese.			3-4		4	e.						showery.
H. M. S. Champion, Yokohama, Japan			80	26.7	95	s.			4-5		7					3	sw.	squally.
H. M. S. Comus, N. 49° 57′, W. 157° 30′	29.99	761.7	50	10.0	93	wsw.			3		8	sw.				4	sw.	misty.
H. M. S. Diamond, S. 10° 17′, E. 161° 38′	29.92	760.0	78	25.6	90	calm			0		3	ssw.						d. clouds.
H. M. S. Dido, N. 14′, 50° W. 61° 30′	30.00	762.0	81	27.2		var.			1-2									showery.
H. M. Dock-Yard, Bermuda, W. I.	30.12	765.0	81	27.2	80	ssw.			1-2		2	ssw.						d. clouds.
H. M. S. Druid, N. 38° 32′, W. 55° 07′	30.06	763.5	79	26.1	88	sw.			5		8	wsw.				3	sw.	d. clouds.
H. M. S. Eclipse, N. 12° 47′, E. 44° 50′	29.61	752.1	81	27.2		sw.			4		5							d. clouds.
H. M. S. Emerald, N. 17° 00′ W. 25° 00′	30.07	763.8	77	25.0	95	calm			0		0							blue sky.
H. M. S. Euryalus, N. 13° 30′, E. 42° 50′	29.70	754.4	87	30.6		nnw.			2		0							misty.
H. M. S. Espiegle, S. 17° 07′ E. 167° 44′	29.98	761.5	73	22.8	71	se.			4-6		10					6	se.	raining.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.05	763.3	58.5	14.7	87	calm			0		10							overcast.
H. M. S. Garnet, N. 18° 30′, W. 25° 05′	30.12	765.0	76	24.4	76	nne.			3		10					3	nne.	overcast.
H. M. S. Griffon, N. 51° 39′, W. 56° 31′	29.60	751.8	54	12.2	100	s.			2		5							d. clouds.
H. M. S. Iris, N. 31° 17′, E. 30° 00′	29.95	760.7	78	25.6	82	w.			2-3		1	w.				2	w.	d. clouds.
H. M. S. Iron Duke, N. 51° 26′, E. 140° 52′	29.49	749.0	58	14.4	87	s.			1		10							foggy.
H. M. S. Kingfisher, N 48° 10′, W. 124° 50′	29.89	759.2	54	12.2		sw.			2		6							raining.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.93	760.2	78.3	25.7	93	calm			0		7							showery.
H. M. S. Liffey, Coquimbo, Chili	29.96	761.0	51.5	10.8		ne.			1		4	n.						d. clouds.
H. M. S. Magpie, N. 32° 44, E. 129° 51′	29.92	760.0	81.7	27.6	86	calm			0		0							misty.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.80	756.9	79.5	26.4	76	nw.			2		0					1	nw.	blue sky.
H. M. S. Nelson, S. 35° 16′, E. 174° 08	29.79	756.7	49	9.4	85	calm			0									d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.86	758.4	67.5	19.7	79	w.			2		4	wnw.						d. clouds.
H. M. S. Orion, N. 32° 21′, E. 27° 09′	29.83	757.7	84.5	29.2		ssw.			1		4	se.						misty.
H. M. S. Orontes, N. 34° 40′, E. 17° 29′	29.90	759.4	79.5	26.4	98	wnw.			1		0					1	wnw	blue sky.
H. M. S. Pegasus, N. 5° 24′, E. 100° 20′	29.86	758.4	82.5	28.1	83	nw.			1		10							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Island	30.11	764.8	71	21.7	85	sse.			3		2	sse.						squally.
H. M. S. Rocket, Vancouver Island, B. A	29.88	758.9	55	12.8	93	wsw.			2		6							raining.
H. M. S. Sappho, S 1° 00′ W. 150° 00′	29.88	758.9	79.5	26.4		e.			4-5		3	e.				4	e.	squally.
H. M. S. Swiftsure, S. 35° 40′, W. 54° 15′	30.40	772.1	53.5	11.9	93	n.			3		2	n.						d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.33	770.4	40.0	4.4	91	ne.												d. clouds.
H. M. S. Tenedos, N. 51° 28′ W. 56° 55′	29.55	750.6	55	12.8	87	wsw.			2-3		3							d. clouds.
H. M. S. Triumph, Sandy Point, Patagonia	30.44	773.2	36	2.2	80	w.			1		2	ene.						d. clouds.
H. M. S. Tyne, N. 35° 22′, W. 53° 20′	30.39	771.9	80	26.7	86	ssw.			3-4		3	calm				3	ssw.	d. clouds.
H. M. S. Woodlark, N. 26° 37′ E. 55° 46′	29.50	749.3	92.5	33.6	67	e.			3		0					3	e.	dense mist.
H. M. S. Zephyr, N. 33° 44′, E. 136° 39′	30.05	763.3	80	26.7	100	s.			1		0					2	s.	blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Cape Roxo, Senegambia	30.08	764.0	78.8	26.0	96	w.			1		9			13 h'r	13 h'r	4	w.	raining.
Tamega, Macao, China	29.72	754.9	86.0	30.0	71	e.			3		5		e.					d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.01	762.2	74	23.3	90	ne.	8	3.6			10		ne.	1.38	35.0			rainy.
Navy Yard, Portsmouth, N. H	29.98	761.5	70	21.1	75	calm	0	0			2		nw.	0	0			clear.
Naval Hospital, Yokohama, Japan*	29.85	758.2	78	25.6	71	sw.			4		0			0	0			
Adams, Mare Island, Cal						sw.			2		0			0	0	sm'h		clear.
Alaska, Callao, Peru	29.96	761.0	59	15.0	94	calm			0		10			0	0	sm'h		cloudy.
Alert, Mare Island, Cal *	29.99	761.7	60	15.6	76	ssw.			3		0			0	0	sm'h		squally.
Alliance, Boston, Mass	30.00	762.0	72	22.2	76	wnw.			1		2			0	0			clear.
Ashuelot, Yokohama, Japan*	29.86	758.4	79	26.1	78	ssw.			3		2		calm					clear.
Brooklyn, Rio de Janeiro, Brazil	30.32	770.1	68	20.0	?	nw.	6	2.7			10			1.17	29.7	sm'h		cloudy.
Colorado, New York, N. Y	30.08	764.0	76	24.4	68	nw.	6	2.7			0			0	0			misty.
Constellation, New York, N. Y *	29.99	761.7	77	25.0	58	nnw.			2		0							clear.
Enterprise, Provincetown, Mass *	29.98	761.5	70	21.1	85	nw.			2		2		nw.			sm'h		clear.?
Essex, Valparaiso, Chili	30.00	762.0	54	12.2	80	sw.			0-1		8?					sm'h		clear.
Franklin, Norfolk, Va	30.15	765.8	70	21.1	85	nw.	4	1.8			5		w.	0	0			fair.
Galena, N. 36° 29′ W. 3° 00′	29.99	761.7	75	23.9	95	wsw.			1		2					sm'h		fair.
Independence, Navy Yard, Mare Island, Cal	30.11	764.8	72	22.2	67	sw.			3		0			0	0			clear.
Iroquois, Mare Island, Cal	30.06	763.5	59	15.0	82	sw.			4		0							clear.
Kearsarge, Norfolk, Va	30.13	765.3	70	21.1	95	nw.			1		5		w.					fair.
Lackawanna, Callao, Peru*	29.99	761.7	59	15.0	88	calm			0		10							cloudy.
Lancaster, N. 36° 34′, E. 19° 05′*	29.84	757.9	82	27.8	91	nnw.			3		0			0	0	sm'h		clear.
Marion, S. 34° 54′, W. 56° 13′	30.23	767.8	43	6.1	100	n.			2		2			0	0	sm'h		clear.
Michigan, Carp River, Mich	29.95	760.7	67	19.4	69	sw.			3		0							clear.
Minnesota, Newport, R. I	30.08	764.0	75	23.9	60	nw.	1	0.4			0							clear.
Monocacy, Chefoo, China	29.78	756.4	77	25.0	82	e.			2		10		e.			sm'h		cloudy.
New Hampshire, Newport, R. I	30.03	762.7	71	21.7	95	ne.			1		0					sm'h		clear.
Nipsic, N. 35° 12′, E. 15° 44′*	29.89	759.2	79	26.1	82	nw.			3		2					sm'h		clear.
Onward, Callao, Peru	30.13	765.3	58	14.4	94	nw.			1		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.96	761.0	81	27.2	78	sse.			1		5		sw.					fair.
Passaic, Washington, D. C	30.26	768.6	75	23.9	100	calm			0		0							clear.
Pensacola, Panama, Panama*	29.84	757.9	78	25.6	91	nw.	2	0.9			5		nw.	0	0	sm'h		fair.
Portsmouth, N. 39° 57′, E. 4° 33′*	29.95	760.7	77	25.0	77	ssw.			2		2		nw.			sm'h		clear.
Powhatan, Pensacola, Florida	30.02	762.5	74	23.3	95	ne.			3		8		ne.					overcast.
Quinnebaug, Alexandria, Egypt	29.81	757.2	81	27.2	74	nw.			1		2		calm			sm'h		clear.
Ranger, Mare Island, Cal	30.09	764.3	60	15.6	76	sw.			2		0			0	0			clear.
Richmond, Yokohama, Japan*	29.90	759.4	80	26.7	78	calm			0		2		sw.	0	0			fair.
Saratoga, N. 42° 23′, E. 5° 50′	29.95	760.7	72	22.2	95	w.			2		2		w.	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.32	770.1	73	22.8	72	calm			0		0			0	0			clear.
Swatara, Yokohama, Japan*	29.81	757.2	79	26.1	82	ssw.			3		0					sm'h		clear.
Tennessee, Provincetown, Mass	30.05	763.3	72	22.2	90	wnw.	2	0.9			2		nw.	0	0			fair.
Vandalia, Portsmouth, N. H*	29.95	760.7	69	20.6	85	nw.			1		5		ne.					fair.
Wabash, Boston, Mass	30.00	762.0	73	22.8	58	w.	2	0.9			2		w.	0	0			clear.
Wachusetts, Fort Wrangle, Alaska†	30.21	767.3	47	8.3	100	e.			1		2		calm			sm'h		fair.
Wyoming, Port Royal, S. C*	30.03	762.7	72	22.2	90	ne.	10	4.5			10		e.	0.02	0.5			raining.
Yantic, Provincetown, Mass	30.00	762.0	70	21.1	75	nw.			3		2							fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, Glasgow, Scotland*	29.51	749.5	69	20.6	.....	w.	.....	.....	4	.....	8	.....	w.	.....	.....	.....	.....	cloudy.
S. S. Nova Scotian, N. 51° 18′, W. 17° 02′	29.74	755.4	61	16.1	.....	w.	.....	.....	3	.....	10	.....	ssw.	.....	.....	mod.	nw.	cloudy.
S. S. Scandinavian, N. 49° 46′ W. 38° 30′*	29.71	754.6	58	14.4	.....	sw.	.....	.....	4	.....	9	.....	.....	9 h'r	9 h'r	light	sw.	overcast.
S. S. Waldensian, N. 44° 11′, W. 53° 51′*	29.95	760.7	74	23.3	.....	wsw.	.....	.....	3	.....	2	.....	wsw.	6 h'r	6 h'r	light	wsw.	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, N. 51° 23′, W. 14° 04′*†	29.72	754.9	.....	.....	.....	wnw.	.....	.....	4	.....	8	.....	wsw.	o	o	mod.	w.	squally.
S. S. Lord Gough, N. 39° 13′ W. 69° 43′	30.05	763.3	79	26.1	.....	nw.	.....	.....	3	.....	2	.....	nw.	o	o	sm'h	wnw.	fair.
AMSTERDAM LINE.																		
S. S. Jason, N. 43° 48′, W. 56° 24′	30.10	764.5	60.8	16.0	.....	wnw.	.....	.....	3	1 c	.....	.....	.....	.....	.....	2	wnw.	gloomy.
ANCHOR LINE.																		
S. S. Alexandria, Leghorn, Italy	30.00	762.0	78	25.6	.....	nw.	.....	.....	1	.....	.....	.....	.....	o	o	.....	.....	fair.
S. S. Bolivia, N. 52° 32′ W. 22° 06′*†	29.78	756.4	54	12.2	.....	ene.	.....	.....	1	.....	10	.....	ese.	14 h'r	14 h'r	sm'h	.....	overcast.
S. S. Ethiopia, N. 41° 48′, W. 61° 10′	29.99	761.7	70	21.1	95	w.	.....	.....	3	.....	5	.....	w.	o	o	sm'h	.....	
S. S. Galatia, N. 15° 14′, E. 55° 46′†	29.99	761.7	78	25.6	.....	baff.	.....	.....	3	.....	3	.....	.....	o	o	r'gh	wsw.	
S. S. India, N. 41° 47′, W. 47° 30′*	29.98	761.5	77	25.0	98	sw.	.....	.....	6	.....	5	.....	.....	.....	.....	short	sw.	fair.
S. S. Utopia, N. 40° 43′ W. 50° 39′†	30.28	769.1	81	27.2	66	sw.	.....	.....	5	.....	6	.....	sw.	2 h'r	2 h'r	mod.	sw.	cloudy.
ATLAS LINE.																		
S. S. Ailsa, Petit Goave, Hayti, W. I.†	30.11	764.8	79	26.1	82	ne.	.....	.....	2	.....	0	.....	.....	o	o	sm'h	.....	clear.
S. S. Alpin, N. 35° 34′, W. 72° 15′	30.09	764.3	.....	.....	.....	ne.	.....	.....	1	.....	9	.....	sw.	o	o	mod.	se.	covered.
S. S. Alvo, Cartagena, U. S. C	29.90	759.4	.....	.....	.....	sse.	.....	.....	2	.....	2	.....	s.	o	o	.....	.....	
S. S. Antillas, N. 28° 11′, W. 73° 30′*†	30.25	768.3	86	30.0	.....	ne.	.....	.....	1	.....	.....	.....	.....	.....	.....	sm'h	.....	fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Halifax, N S.†	29.91	759.7	65	18.3	.....	nw.	.....	.....	.....	.....	0	.....	.....	o	o	.....	.....	clear.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S 25° 10′, W. 35° 40′	30.34	770.6	69	20.6	79	e.	.....	.....	4	.....	2	.....	.....	.....	.....	.....	.....	blue sky.
S. S. Basil, N. 4° 17′, W. 39° 31′	30.03	762.7	80.8	27.1	75	s.	.....	.....	2	.....	3	.....	.....	.....	.....	.....	.....	blue sky.
S. Baroda, S. 26° 59′, E. 9° 16′	30.12	765.0	61.5	16.4	83	s.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. City of Agra, S. 20° 48′, W. 31° 30′	30.32	770.1	72	22.2	90	se.	.....	.....	5	.....	2	.....	.....	.....	.....	.....	.....	d. clouds.
Bk. Commewyne N. 30° 13′, W. 59° 38′	30.20	767.1	83	28.3	70	e.	.....	.....	3	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Gordon Castle, N. 42° 21′, W. 55° 10′	29.99	761.7	76	24.4	69	w.	.....	.....	1	.....	3	.....	.....	.....	.....	.....	.....	d. clouds.
S. S. Markland, S. 36° 02′, W. 85° 52′	30.31	769.9	53.2	11.8	93	sse.	.....	.....	7	.....	6	.....	.....	.....	.....	5	sse.	squally.
May Hulse, N. 13° 44′, W. 25° 50′	30.04	763.0	76	24.4	95	wsw.	.....	.....	1	.....	10	.....	.....	.....	.....	.....	.....	raining.
S. Oamarn, S. 27° 34′, E. 7° 10′	30.14	765.5	63.5	17.5	77	se.	.....	.....	2	.....	9	.....	.....	.....	.....	.....	.....	d. clouds.
Pole Star, N. 34° 12′ W. 41° 02′	30.33	770.4	82	27.8	83	sse.	.....	.....	1	.....	2	.....	.....	.....	.....	.....	.....	blue sky
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 33° 36′, W. 119° 16′*†	29.95	760.7	65	18.3	90	nw.	.....	.....	2	.....	0	.....	.....	.....	.....	mod.	nw.	clear.
CROMWELL LINE.																		
S. S. Hudson, N. 37° 05′, W. 74° 10′†	30.16	766.1	74	23.3	.....	nne.	.....	.....	1	.....	2	.....	n.	o	o	mod.	ne.	fair.
CUNARD LINE.																		
S. S. Bothnia, N. 51° 12′, W. 14° 14′	29.76	755.9	64	17.8	83	w.	.....	.....	4	.....	10	.....	w.	o	o	mod.	nw.	cloudy.
S. S. Gallia, N. 46° 34′, W. 36° 55′	30.03	762.7	63	17.2	88	var.	.....	.....	2	.....	10	.....	.....	shr's	shr's	sm'h	.....	gloomy.
S. S. Marathon, N. 51° 08′, W. 14° 50′	29.78	756.4	52	11.1	.....	sw.	.....	.....	1	.....	8	.....	ssw.	2 h'r	2 h'r	mod.	nw.	raining.
S. S. Scythia, N. 41° 28′, W. 58° 11′	30.04	763.0	71	21.7	75	w.	.....	.....	1	.....	5	.....	wnw.	sl't	sl't	sm'h	.....	fine.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N 44° 18′ W. 42° 55′†	29.95	760.7	69.8	21.0	.....	sw.	.....	.....	4	ck	.....	sw.	.....	o	o	sm'h	sw.	hazy.
GUION LINE.																		
S. S. Arizona, N. 51° 10′, W 26° 05′	29.60	751.8	58	14.4	.....	wnw.	.....	.....	4	.....	8	.....	nw.	6 h'r	6 h'r	mod.	n.	dull.
S. S. Wisconsin, N. 41° 40′, W. 57° 15′	30.01	762.2	70	21.1	?	calm	.....	.....	0	.....	5	.....	ne.	o	o	sm'h	.....	fine.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 46° 18′, W. 39° 11′†	30.00	762.0	.....	.....	.....	wsw.	.....	.....	3	.....	7	.....	sw.	light	light	sm'h	wsw.	
S. S. Cimbria, N. 49° 29′, W. 16° 43′	29.78	756.4	58	14.4	.....	s.	.....	.....	4	.....	10	.....	s.	5 h'r	5 h'r	mod.	nw.	raining.
S. S. Gellert, N. 40° 59′, W. 48° 46′	30.07	763.8	77	25.0	.....	n.	.....	.....	4	.....	2	.....	nw.	o	o	mod.	n.	fair.
S. S. Herder, N. 51° 38′, E. 1° 56′	29.86	758.5	62	16.7	.....	sse.	.....	.....	3	.....	5?	.....	s.	o	o	sm'h	wsw.	cloudy.?
S. S. Silesia, N. 40° 56′, W. 63° 43′†	30.14	765.5	69.5	20.8	84	se.	.....	.....	2	.....	1	.....	s.	o	o	1	s.	fair.
S. S. Westphalia, N. 50° 33′, W. 13° 50′	29.63	752.6	59	15.0	87	sw.	.....	.....	6	.....	10	.....	sw.	sqll's	sqll's	cross	w.	cloudy.
S. S. Wieland, N. 42° 10′, W. 60° 12′	30.06	763.5	70.5	21.4	.....	w.	.....	.....	2	.....	5	.....	w.	o	o	2	w.	fair.
INMAN LINE.																		
S. S. City of Berlin, N. 41° —′, W. 60° 20′	30.05	763.3	.....	.....	.....	w.	.....	.....	1	.....	6	.....	nnw.	o	o	sm'h	.....	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 30° 00′, W. 47° 00′*†	30.53	775.4	68	20.0	.....	ne.	.....	.....	4	.....	4	.....	wsw.	2 h'r	2 h'r	long	sse.	clear.
LEYLAND LINE.																		
S. S. Bulgarian, N. 50° 55′, W. 25° 00′	29.72	754.9	.....	.....	.....	wsw.	.....	.....	1	.....	10	.....	w	8 h'r	8 h'r	light	w.	cloudy.
MALLORY LINE.																		
S. S. Colorado, New York, N. Y.†	30.10	764.5	70	21.1	.....	nw.	.....	.....	2	.....	0	.....	.....	o	o	.....	.....	clear.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Brooklyn, N. Y*†	30.12	765.0	72	22.2	90	nw.	.....	.....	1	.....	0	.....	.....	o	o	.....	.....	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 48° 10′, W. 31° 38′*†	29.70	754.4	60.8	16.0	.....	wsw.	.....	.....	1	.....	8	.....	wsw.	6 h'r	6 h'r	mod.	wnw.	foggy.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 14° 15′, W. 52° 44′	29.59	751.6	.....	.....	.....	ene.	.....	.....	4	.....	.....	.....	e.	o	o	mod.	ne.	fine.
S. S. Glenapp, Newport News, Va.†	30.23	767.8	.....	.....	.....	.....	.....	.....	2	.....	5	.....	e.	o	o	.....	.....	fine.
MORGAN LINE.																		
S. S New York, N. 31° 50′, W. 78° 25′†*	30.10	764.5	75	23.9	.....	nne.	.....	.....	3	.....	10	.....	.....	10 h'r	10 h'r	mod.	ene.	raining.
NATIONAL LINE.																		
S. S. Canada, N. 40° 48′ W. 51° 50′†	29.96	761.0	75	23.9	.....	.....	.....	.....	3	.....	9	.....	s;wsw.	o	o	mod.	w.	fine.
S. S Denmark, N. 40° 36′, W. 69° 35′	30.06	763.5	63	17.2	.....	wsw.	.....	.....	2	.....	0	.....	.....	o	o	.....	.....	hazy.
S. S. England, N. 40° 38′. W. 62° 07′	30.03	762.7	.....	.....	.....	w.	.....	.....	1	.....	2	.....	w.	o	o	sm'h	.....	
S. S. Erin, N. 40° 33′, W. 71° 30′	30.00	762.0	76	24.4	.....	wsw.	.....	.....	2	.....	0	.....	.....	o	o	sm'h	.....	
S. S. The Queen, N 46° 35′ W. 27° 49′	29.94	760.5	62	16.7	.....	nw.	.....	.....	5	.....	8	.....	calm	sh'rs	sh'rs	mod.	nw.	
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, St. Jago, Cuba, W. I.†	30.12	765.0	79	26.1	.....	calm	.....	.....	0	.....	8	.....	.....	4 h'r	4 h'r	.....	.....	cloudy.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.†	30.08	764.0	74	23.3	76	nw.	.....	.....	1	.....	2	.....	nw.	o	o	.....	.....	clear.
S. S. City of Washington, N. 25° 20′, W. 80° 03′*†	30.10	764.5	85	29.4	.....	se.	.....	.....	1	.....	2	.....	se.	o	o	sm'h	.....	fine.
NORTH GERMAN LLOYD																		
S. S. America, N. 40° 30′, W. 63° 23′*	30.07	763.8	73.4	23.0	.....	nw.	.....	.....	3	.....	10	.....	w.	2 h'r	2 h'r	mod.	w.	squally.
S. S. Gen. Werder, N. 41° 43′, W 61° 06′	30.02	762.5	.....	.....	.....	wsw.	.....	.....	3	.....	3	.....	w.	o	o	sm'h	.....	clear.
S. S. Habsburg, N. 50° 00′, W. 8° 03′	29.89	759.2	66.2	19.0	.....	nw.	.....	.....	4	.....	2	.....	nw.	2 h'r	2 h'r	r'gh	nw.	fair.
S. S. Hermann, N. 41° 06′, W. 59° 20′	30.04	763.0	73.4	23.0	.....	w.	.....	.....	2	.....	4	.....	sw.	1 h'r	1 h'r	mod.	w.	clearing.
S. S. Neckar, N. 48° 42′, W. 24° 05′	29.83	757.7	58.5	14.7	.....	nw.	.....	.....	5	.....	10	.....	wnw.	o	o	r'gh	wnw.	cloudy.
S. S. Ohio, Bremerhaven, Germany	29.86	758.4	.....	.....	.....	sw.	.....	.....	3	.....	3	.....	sw.	3 h'r	3 h'r	.....	.....	fair.
S. S. Rhein, N. 43° 46′, W. 40° 40′	30.01	762.2	.....	.....	.....	wsw.	.....	.....	3	.....	3	.....	wsw.	light	light	mod.	wsw.	fair.
S. S. Saller, Bremerhaven, Germany	29.86	758.4	56.3	13.5	.....	sw.	.....	.....	3	.....	8	.....	sw.	2 h'r	2 h'r	.....	.....	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 47° 25′, W. 152° 58′*†	30.11	764.8	56	13.3	87	w.	.....	.....	5	.....	10	.....	ssw.	o	o	sm'h	.....	foggy.
S. S. Belgic N. 39° 47′, W. 131° 26′†	30.40	772.1	63	17.2	100	w.	.....	.....	2	.....	8	.....	w.	.....	.....	light	nw.	hazy.
S. S. Gaelic, N. 43° 13′, W. 167° 37′†	30.30	769.6	60	15.6	94	ssw.	.....	.....	6	.....	10	.....	sw.	.....	.....	mod	sw.	dense fog.
S. S. Oceanic, Yokohama, Japan *	29.94	760.5	81	27.2	82	sw.	.....	.....	3	.....	8	.....	sw.	.....	.....	2	ssw.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 38° 17′, W. 74° 41′†	30.17	766.3	.....	.....	.....	nw.	.....	.....	2	.....	4	.....	n.	o	o	sm'h	.....	clear.
S. S City of Columbus, New York N. Y.†	30.13	765.3	.....	.....	.....	nw.	.....	.....	3	.....	0	.....	.....	o	o	.....	.....	clear.
S S Seminole, N. 33° 20′, W. 78° 25′†	30.17	766.3	81	27.2	82	ne.	.....	.....	3	.....	10	.....	ne.	o	o	mod.	ne.	cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 44° 39′ W. 124° 24′†	30.13	765.3	56	13.3	93	nw.	.....	.....	2	.....	5	.....	nw.	.....	.....	sm'h	.....	squally.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.			
Pacific Coast Steamship Company.																		
S. S. Ancon, San Francisco, Cal†	30.06	763.5	53	11.7	93	w.			1		0							clear.
S. S. City of Chester, San Pedro Roads, Cal.*†	29.96	761.0	61	16.1	88	nw.			3		10		nw.			sm'h	nw.	cloudy.
S. S. Idaho, Esquimalt, Vancouvers Id.†	29.94	760.5	54	12.2	93	ne.			4		0?							raining.?
S. S. State of California, San Francisco, Cal†	30.10	764.5	52	11.1	93	w.			2		0							clear.
S. S. Victoria, Nanaimo, Vancouver's Island†	29.80	757 0	56	13.3	100	se.			1		8		e.	7 h'r	7 h'r			overcast.
Pacific Mail Steamship Company.																		
S. S Australia, Sydney, N. S. W.	29.89	759.2	49	9.4	85	wsw.			6		8?		w.	0	0			clear ?
S. S. City of New York, S. 34° 46′, E. 172° 14′†	30.00	762.0	56	13.3	63	s.			4		0			0	0	sm'h		clear.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.13	765.3	77	25.0	91	nnw.			2		5		nw.	3 h'r	3 h'r	sm'h		fair.
S. S. City of Sydney, S. 11° 24′, W. 169° 21′†	29.92	760.0	80	26.7	82	ene.			4		5		nne.	0	0	mod.	ne.	fair.
S. S. City of Tokio, N. 35° 26′, E. 139° 39′†	30.06	763.5	79	26.1	91	ssw.			7		5		ssw.	0	0			fine.
S. S. Colon, N. 37° 40′, W. 73° 42′†	30.15	765.8	76	24.4		wnw.			3		3		nw.	0	0	sm'h	wsw.	fine.
S. S. Colima, Mazatlan, Mexico†	30.00	762.0	84	28.9	83	ne.			3		9		e.	0.20	5.1	small	w.	raining.
S. S. Costa Rica, Panama, Panama*†	30.02	762.5	80	26.7	91	calm			0		6		n.	3 h'r	3 h'r	sm'h		
S. S. Grenada, N. 24° 54′, W. 112° 41′†	29.96	761.0	66	18.9	?	sw.			1		2		sw.	0	0	sm'h	nw.	hazy.
Quebec S. S. Company.																		
S. S. Muriel, Off New York, N. Y.	29.90	759.4	76	24.4		nnw.			3		10			0	0	sm'h		hazy.
S. S. Bermuda, Port of Spain, W. I†	29.98	761.5	80	26.7		calm			0		9		e.	shr's	sh'rs	sm'h		fine.
Red Star Line.																		
S. S. Belgenland, N. 39° 51′ W. 68° 09′†	30.19	766.8	80	26.7	82	w.			4		9			0	0	sm'h		
S. S. Rhynland, N. 40° 34′, W 63° 00′	30.12	765.0	72	22.2	76	wnw.			2		5		sw.	0	0	sm'h		fair.
S. S. Switzerland, N. 48° 37′. W. 22° 42′†	29.72	754 9				wnw.			4		10		wnw.	8 h'r	8 h'r	cross	var.	hazy.
S. S. Vaderland, N. 42° 05′ W. 43° 55′	29.91	759.7	77	25.0	86	wsw.			4		5?		wsw.	0	0	sm'h	w.	clear.?
Rotterdam Line.																		
S. S. Schiedam, N. 50° 00′, W. 4° 05′*	29.87	758.7	65.7	18.7	78	wsw			5		2		sw.	0	0	r'gh	wsw.	fair.
S. S. W. A. Scholten, New York, N. Y.	30.08	764.0	74.5	23.6	76	w.			2		8		w.	0	0			hazy.
State Line.																		
S. S. State of Florida, N. 53° 59′, W. 15° 20′	29.67	753.6	58	14.4		w.			4		8?		w.	0	0	hv'y	w.	clear ?
S. S. State of Indiana, N. 55° 24′, W. 11° 14′†	29.78	756.4	58	14.4		n.			2		1		n.	0	0	sm'h		clear.
Thingvalla Line.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.14	765.5	73.4	23.0		sw.			2		2		sw.	0	0			clear.
Warre Line.																		
S. S. Iowa, N. 41° 32′ W. 50° 15′*†	30.10	764 5	71	21.7		ssw.			4		9		ssw.	0	0	mod	sw	threatening.
W. I. & Pacific Steamship Co.																		
S. S. Venezuela, N. 37° —′, W. 75° —′*	30.10	764.5	80	26.7	87	var.			1		1		ne.			sm'h		clear.
White Cross Line.																		
S. S. Plantyn, N. 48° 30′, W. 20° 25′									5		10			7 h'r	7 h'r	3	wsw.	misty.
White Star Line.																		
S. S. Adriatic, N. 42° 59′ W. 47° 22′†	30.11	764.8	71.5	21.9	92	nw.			1		8		s.	10 h'r	10 h'r	g'tl	wsw.	light rain.
S. S. Baltic, N. 40° 50′ W. 67° 36′†.	30.10	764.5	64	17.8	89	sw.			2		2		w.	5 h'r	5 h'r	2	sw.	blue sky.
S S. Celtic, Liverpool, Eng†	29.75	755.6	65	18 3	78	w.			4		8		w.	hv'y	hv'y			showery.
S. S. Republic, N. 44° 17′, W. 45° 47′†	30.14	765.5	66	18.9	89	se.			4		6		w.	5 h'r	5 h'r	mod.	nw.	d. clouds.
Wilson Line.																		
S. S. Romano, Hull, Eng	29.61	752.1	67	19.4		w.			1		10		w.	½ h'r	½ h'r			overcast.
Winsor Line																		
S. S. Catherine Whiting, Delaware River†	30.14	765.5	74	23.3		calm			0		0			0	0			clear.
Miscellaneous.																		
Bg. Abbe Clifford, N. 36° 54′ W. 75° 05′.*†	30.17	766 3	78	25.6		nw.			1		9		sw.	0	0	sm'h	e.	
Schr. Ajax, N. 27° 00′ W. 88° 00′†	30.02	762.5				s.			1		4		s.	1 h'r	1 h'r	sm'h	se.	fair.
Bk. Alpha, N. 39° 55′ W. 60° 00′†	29.99	761.7	78	25.6		ne.			2		4		w.	4 h'r	4 h'r	mod.	w.	fair
Schr. Annie Lewis, N. 27° 30′, W. 95° 40′†	30.13	765.3	78	25.6		w.			2		8		w.	4 h'r	4 h'r	short	sw.	cloudy.
Bk Anna Thormann, S. 38° 36′, E. 45° 54′	30.39	771.9	48.7	9.3	70	s.			4		2 k		ssw.	½ h'r	½ h'r	mod.	ssw.	clear.
S. S. Antonio Lopez, N. 19° 25′, W. 68° 50′	30.08	764.0	80.5	26.9	82	ne.			1		2			0	0	sm'h		clear.
Bk. Argonaut, N 47° 55′, W 34° 57 *†	30.04	763.0	62.2	16.8		wsw.			2		10		ssw.	3 h'r	3 h'r	mod.	w.	cloudy.
Schr. Asa Eldridge, Key West, Fla†	30.17	766.3				ese.			3		6		se.	0	0			squally.
S. S. Burswell, N. 45° 40′, W 7° 04′*†	30.10	764.5	77	25.0		w.			2		3		calm	1 h'r	1 h'r	high	wnw.	fine.
Bk. Cato, Off Hirsthals, Denmark*†	30.10	764.5				sw.			4		3		sw	0	0	sm'h	sw.	fair.
Bk. Celestina, S. 17° 39′, W. 27° 33′*†	30.20	767.1				ese.			2		4		e.	4½ h'r	4½ h'r	mod.	se.	fair.
Schr. C. R. Flint, N. 24° 50′, W. 83° 46′†	30.17	766.3	72	22.2		ssw.			1		2		ssw.	0	0	sm'h		clear.
S. Cornelius, N. 42° 40′, W 34° 40′*†	30.38	771.6	74	23.3		w.			4		8		w.	0	0	mod.	wnw.	cloudy.
S. S. D. J. Foley, Port Antonio, Jamaica, W. I†	29.97	761.2				calm			0		10			0	0			overcast.
Schr. Edith R. Seward, N. 21° 51′, W. 71° 20′*†	30.13	765.3	84	28.9		ese.			1		2		ese.	¼ h'r	¼ h'r	long	e.	clear.
S. E. J. Spicer, New York, N. Y*	30.06	763 5	75	23.9		nnw.			2		0			0	0			clear.
Bk. E. L. Pettingill, N. 30° 19′ W. 141° 42′†	30.30	769.5				se.			1		0			0	0	sm'h	se.	
S. Enoch Train, N. 43° 22′, W. 37° 40′*†	30.24	768.1				sw.			4		2		sw.	0	0	sm'h		light haze.
Bk. Essex, S. 37° 02′ E. 34° 31′*†	30.11	764 8	62	16.7		nne.			6		5?		n.	0	0	hv'y	wsw.	cloudy?
Bk. Franklin, N. 39° 10′, W. 53° 00′*†	30.41	772.4				wsw.			5		10			1 h'r	1 h'r	mod.	sw.	
Bk. Freya, Baltimore, Md						n.			1		1		n.	0	0			fine.
S. Grecian, Hong Kong, China*†	29.70	754.4	85	29.4		e.			4		8		ese.	1 h'r	1 h'r			fair.
Bk. Hattie G. McFarland, Philadelphia, Pa*†	30.15	765.8	72	22.2		n.			1		1		nnw.	0	0			clear.
S. Hedwig, N. 43° 55′. E 14° 44′	29.88	759.0	76.8	24.9	90	wnw.			3		2		wnw.	0	0	sm'h	wnw.	
Bk. Heinrich & Tonio, N. 40° 01′, W. 72° 18′*†	30.25	768.3	73	22.8		wsw.			3		0			0	0	sm'h		clear.
Bk. Horace Scudder, N. 11° 15′, W. 60° 27′†	30.05	763.3	82	27.8		ese.			3		5		se.	¼ h'r	¼ h'r	long	e.	blue sky
S. Ivy, S. 7° 06′, W 129° 06′†	30.23	767.8	74	23.3		ene.			5		1		e.	0	0	mod.	se.	clear
S. Ismir, S. 33° 28′ E. 97° 05′†	30.35	770.9				nne.			4		7		ne.	0	0	swell	sw.	fine.
Schr. James Slater, N. 11° 03′ W. 53° 20′*†	30.29	769.4	85	29.4		e.			3		2		ese.	0	0	mod.	ene.	
Schr. Jennie N. Huddell, Hallowell, Maine†	30.11	764.8	73	22.8	90	s.			1		2		nw.	0	0			clear.
Bk. Johanne, N. 45° 58′, W. 34° 38′*†	30.00	762.0	64	17.8		calm			0		8		sw.	light	light	mod	nw.	hazy.
Schr. John L. Thomas, N. 29° 55′. W. 79° 32′*†	30.12	765.0				s.			3		5		s.	½ h'r	½ h'r	con.	e.	squally.
Bg. John Wesley, St Jago, Cuba, W I†	29.90	759.4				ne.			2		1		ese.	½ hr	½ hr			clear.
Bk. Joseph A. Hopes, S. 18° 24′, W. 34° 08′*†	30.28	769.1	74	23.3	81	se.			5		4		se.	1 h'r	1 h'r	mod.	se.	fair.
Bkt. Josephine, N. 27° 19′, W. 75° 59′†	30.19	766.8	86	30.0	65	se.			5		0			0	0	mod.	se.	clear.
Bkt. Kryolith, N. 44° 52′, W. 59° 21′*†	29.87	758.7				wsw.			3		2		w.			chop		clear.
S S. Laurel, Key West, Florida†	30.04	763.0	84	28.9		se.			2		8		se.	0	0			cloudy.
Bk. Liberia, N. 18° 07′, W. 48° 00′*	30.06	763.5	80	26.7	82	ene.			4		4		ene.	0	0			
S. S. Madrid, N. 46° 25′, W. 32° 15′*†	30.14	765.5	62	16.7		wsw.					5		nnw.	0	0	short	w.	clearing.
S. S. Nebo, N. 39° 00′, E. 1° 10′*†	30.10	764.5				ene.			3		0			0	0	sm'h		clear.
S. Orealla, N. 34° 57′, W. 47° 34′*	30.21	767.3	80	26.7		ssw.			1		1		s.	0	0	sm'h	se.	clear.
S. Paramita, N. 11° 00′ W 120° 20′†	29.81	757.2	84	28.9		s.			2		5?		sw.	0	0	long	ese.	clear.?
Bk. Sunbeam, N. 37° 54′ W. 73° 15′†	30.24	768.1	76	24.4	90	w.			3		5		w.	0	0	sm'h		fair.
S. S. Sunbeam, Odessa, Russia	29.71	754.6	94	34.4	64	ese.			1		0							blue sky.
S. Sovereign Of The Sea, S. 17° 27′ W. 36° 03′*†	30.16	766.1	77	25.0	90	ese.			4		4		e.	0	0	r'gh	se.	clear.
Bg. Teneriffe, Sagua la Grande, Cuba	30.06	763.5				e.			2									
Bk. Truro, N. 46° 00′, W. 50° 25′*†	29.88	758.9				sw.			3					0	0	sm'h		foggy.
U.S.F.C.S.S. Fish Hawk, Woods Holl, Mass†	30.22	767.6	71	21.7	85	ssw.			1		1		calm	0	0			clear.
S. S. Victoria J. Peed, Fortune Id, W. I*†	30.02	762.5				ne.			5		2							
Schr. Viola Reppard, Baltimore, Md†	30.01	762.2	79	26.1		calm			0		0			0	0			clear.
Bk. Wm. Wilcox, Buenos Ayres, S. A*†	30.25	768.3	59	15.0		nne.			3		0			0	0			clear.

International Chart I. July 24, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 25, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.98	761.5	82.2	27.9	76	s.			1		0			0	0	clear	Bouvier.
Algiers			29.99	761.8	81.7	27.6	74	ne.			2		0			0	0	clear	Nicolas.
La Calle			30.00	761.9	83.1	28.4	73	nne.			3		1			0	0		Fonfrède.
Tunis			30.01	762.2															Jacques.
Saida			30.07	763.8	96.1	35.6	27	sw.			1		1			0	0	very fair	Perés.
Tebessa			30.06	763.5	79.5	26.4	45	nw.			1		0			0	0	clear	Derché.
Geriville					99.7	37.6	9	w.			1		3			0	0	pretty fair	Lonchamp.
Laghouat			30.08	764.0	100.4	38.1	27	w.			1		1			0	0	very fair	Abraham.
Biskra			30.07	763.8	101.1	38.4	23	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.38	746.2	29.47	748.5	41.0	5.0	93	w.	25	11.2			10			0.41	10.4	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.35	745.6	29.87	758.8	80.1	26.7	54	se.			1		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.22	742.2	29.96	760.9	75.9	24.4	71	nw.	3.8	1.7			10			0.043	1.1	thnd'r storm	Dr. Wierzbiski.
Eperies	29.04	737.6	29.86	758.5	83.7	28.7	58	calm			0		9 ks			0	0		Julius Mikolik.
Gratz	28.76	730.6	29.96	761.0	74.5	23.6	73	w.			1		7			0	0		Andreas Rospini.
Hermannstadt	28.49	723.7	29.82	757.4	88.3	31.3	41	s.			1		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.61	726.7	29.89	759.3	72.9	22.7	68	ene.			2	c	5 k			0.594	15.1	fair	The Staff.
Lemberg	28.93	734.9	29.85	758.2	86.5	30.3	48	sw.			1		3			0	0		Dr. T. Stanecki.
Pola	29.84	757.8	29.94	760.5	86.7	30.4	55	wsw.			2		5			0	0		I. R. Hydrographic Office.
Szathmar	29.38	746.3	29.82	757.4	90.0	32.2	40	s.			1		3			0.059	1.5		Joseph Midlinszky, S. J.
Szegedin	29.55	750.5	29.81	757.1	86.5	30.3	54	ne.			1		0			0	0		Karl Stancel.
Trieste	29.83	757.7	29.93	760.3	82.0	27.8	69	sw.			1		3			0	0		Royal Academy.
Vienna	29.26	743.3	29.95	760.8	75.7	24.3	47	nnw.			1		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.76	755.9	29.86	758.4	55.4	13.0	86	nw.	11	4.9			9			0.030	0.8	showery	W. Boswell
Armagh, Observatory	29.72	754.9	29.95	760.7	59.3	15.2	68	n.	6	2.7			5					d. clouds	S. Call.
Bidston, Liverpool Obs'y					57.2	14.0	81	wnw.	13	5.8			7					d. clouds	John Hartnup.
Bolton, Sharples	29.32	744.7	29.85	758.2	57.9	14.4	81	wnw.	6	2.7			10					overcast	Thomas Mackereth, Jun.
Bradford, Yorkshire	29.45	748.0	29.84	757.9	55.1	12.8	94	w.			2		10			0.52	13.2	overcast	McLandsborough & Pres.
Bridgetown, Barbadoes	30.05	763.3	30.08	764.0	83.0	28.3	70	ne.			2		2					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.83	757.7	66.6	19.2	66	s.			0.4		9					overcast	John McLaren.
Chatham, School M. E.	29.74	755.4	29.87	758.7	61.0	16.1	81	calm			0		7			blank	blank	misty	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.65	753.1	29.87	758.7	60.0	15.6	68	nnw.			3		9					overcast	The Staff.
Fort Napier, Natal	27.50	698.5	29.72	754.9	76.4	24.7	20	e.			1		1					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.65	753.1	29.91	759.7	84.0	28.9	79	w.			1		4					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.01	762.2	30.06	763.5	81.8	27.7	72	e.			1		0					blue sky	Cpl. O. Baldwin.
Glasgow, Observatory	29.66	753.4	29.86	758.4	61.8	16.6	53	nnw.			4		7					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.69	754.1	29.86	758.4	62.4	16.9	74	ne.			1		8					drizzling	The Staff.
Guernsey	29.49	749.0	29.78	756.4	56.0	13.3	93	e.			1		10					raining	A. Collenette, F. M. S.
Kew, Observatory	29.83	757.7	29.87	758.7	62.7	17.1	55	sse.	4	1.8			7					threatening	The Staff.
Leicester, Museum	29.59	751.6	29.84	757.9	63.5	17.5	55	sw.			1		8			blank	blank	d. clouds	J. C. Smith.
Malta, Mediterranean	29.89	759.2	29.96	761.0	80.8	27.1	80	e.			2		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.09	764.3	30.14	765.5	84.2	29.0	68	se.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.34	745.2	29.85	758.2	64.0	17.8	62	w.			0-1		4					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.63	752.6	29.86	758.4	61.6	16.4	70	wsw.			1		8					misty	The Staff.
Plymouth	29.77	756.1	29.85	758.2	61.8	16.6	66	ne.			1		9					d. clouds	John Merrifield.
Sandwick Manse, Orkneys					54.8	12.7	90												Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.74	755.4	29.80	756.9	88.6	31.4	59	ssw.			1		2					misty	W. H. Lyne.
Sheffield	29.57	751.1	29.84	757.9	62.9	17.2	77	s.			1		10			0.05	1.3	overcast	W. F. Cooper.
Silloth Rectory	29.82	757.4	29.86	758.4	66.2	19.0	53	w.			2		3			0.054	1.4	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.87	758.7	60.5	15.8	73	s.	5	2.2			10					overcast	Rev. S. J. Perry.
Stratfield Turgiss	29.65	753.1	29.87	758.7	61.7	16.5	68	s.			1		10					showery	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.93	760.2	29.94	760.5	63	17.2	61	nw.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.00	762.0	30.03	762.7	60.9	16.1	76	nnw.	13	5.8			7					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.95	760.7	29.99	761.7	69	20.6	79	s.	5	2.2		5 cs	0	calm		0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.90	759.4	29.96	761.0	64	17.8	97	se.	1	0.4			fg			0	0	light fog	G. A. Blair.
Father Point, Quebec*	29.76	755.9	29.78	756.4	65	18.3	78	w.	13	5.8		3 ck	hz.	w.		0.04	1.0	fair	J. McWilliams.
Fort Garry, Manitoba*	28.93	734.8	29.72	754.9	63	17.2	93	n.	6	2.7			10 k		nw.	0.830	21.1	cloudy	James Stewart.
Halifax, N. S*	29.90	759.4	30.03	762.7	66	18.9	97	se.	3	1.3			fg.			0	0	foggy	A. Allison.
Kingston, Ontario*	29.69	754.1	30.01	762.2	69	20.6	84	sw.	7	3.1		0	0			0	0	hazy	A. P. Knight, M. A.
Montreal, Quebec*	29.75	755.6	29.95	760.7	72	22.2	68	w.	16	7.2		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.28	743.7	29.94	760.5	71	21.7	71	sw.	10	4.5		2 k	5 ks	w.	w.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.41	747.0	30.07	763.8	69	20.6	95	calm	0	0		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.44	747.8	30.07	763.8	62	16.7	100	nw.	1	0.4		2 ck	hz.	w.		0	0	hazy	M. Payne.
Quebec, Quebec*	29.60	751.8	29.91	759.7	63	17.2	100	w.			3	0	2 n			0	0	hazy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.46	748.3	29.90	759.4	64	17.8	84	calm	0	0		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.30	744.2	29.98	761.5	71	21.7	94	sw.	30	13.4			10 n			0	0	cloudy	
St. Andrews, N. B.	29.93	760.2	29.98	761.5	61	16.1	85	se.	1	0.4		0	0			0	0	clear	
Sydney, C. B*	29.97	761.2	30.03	762.7	63	17.2	75	sw.	1	0.4		0	0			0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.69	754.1	30.06	763.5	67	19.4	73	w.	5	2.2		5 cs	0	nw.		0	0	fair	Magnetic Observatory.
Yarmouth, N. S*	29.93	760.2	29.99	761.7	63	17.2	87	sw	1	0.4		0	0			0	0	clear	Lt. F. E. Wilmot, R N
Sub-series.																			
Mount Forest	28.66	728.0	30.08	764.0	65.0	18.3	73	w.			3	0	c			0	0	clear	Wm. Wylie.
St. Johns, Newfoundland	29.96?	761.0?	30.21?	767.3?	58	14.4	88	nw.	2	0.9		0	0			0.01	0.3	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.90	759.4	29.93	760.2	61.0	16.1	77	wsw.	11.3	5.1		0	7 k			0.160	4.1	light haze	John Duthie.
Cape Town, C. G. H. Obs'y	29.98	761.5	30.02	762.5	56.4	13.6	100	sse.	23	10.3		10	10			0.370	9.4		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.85	758.1	29.87	758.8	80.6	27.0	92	se.	7.4	3.3		5 c	0			0	0	cloudy	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.86	758.5	29.91	759.7	69.8	21.0	54	sw.	11	5			9						Oversergent Fischer.
Fanöe	29.87	758.8	29.89	759.3	65.3	18.5	76	wsw.			4		9						Overloerer Lauridsen.
Godthaab, Greenland	29.54	750.2	29.58	751.3	41.9	5.5	96	wsw.			2		2			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.77	756.2	29.82	757.3	50.7	10.4	87	calm			0		2						A. O. Thorlacius.
Thorshavn	29.84	758.0	29.88	758.9	49.6	9.8	63	n.	9	4			3						Overloerer Bergh.
Vestervig	29.78	756.3	29.87	758.6	63.9	17.7	77	sw.			4		6						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.37	746.0	30.03	762.8	74.1	23.4	65	sse.			2	c	n		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.30	744.3	29.85	758.3	65.8	18.8	94	s.			1		10 n		n.			raining	M. Nicot, Director.
Arras, Engineer School	29.78	756.4	30.04	762.9	60.8	16.0	89	sw.			1	c	k;n		sw.	0.126	3.2		M. Fénéon, Command't.
Avignon, Normal School	29.97	761.2	30.05	763.2	85.6	29.8	50	sw.			1					0	0		M. Giraud, Director.
Bar-sur-Seine	29.40	746.8	29.95	760.6	62.6	17.0	80	se.			1		10		w.	0.071	1.8	covered	M. Saillard, Director.
Beauvais, Normal School	29.03	752.5	29.88	759.0	68.9	20.5	58	sse.			1		10		sw.	0.008	0.2	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.07	738.4	29.94	760.4	67.3	19.6	76	ssw.			1		10 n		s.	0.04	1.	raining	M. Gobin, Director.
Bordeaux, Observatory	29.07	753.7	29.93	760.2	66.9	19.4	71	sw.			1		10			0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.30	745.7	29.90	759.4	65.5	18.6	78	s.			1		n		s.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.58	751.3	29.82	757.5	59.0	15	89	nne.			3		8		nne.	0.453	11.5		M. de Kermaree, Dir.
Caen, Normal School	29.92	759.9	29.99	761.7	55.6	13.1	94	ne.			1		8		ne.	0.087	2.2	very cloudy.	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.60	751.9	29.91	759.8	59.9	15.5	90	s.			2		10			0.059	1.5	covered	M. Jadot, Director.
Charleville, Normal School	29.42	747.2	29.92	759.9	60.1	15.6	75	w.			1		10			0.04	1.	raining	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.59	726.2	29.91	759.7	66.6	19.2	62	se.			1		10			0	0	covered	M. Allnard, Director.
Cluny, Normal School	29.13	739.8	29.94	760.4	64.9	18.3	63	ssw.			2		10			0.12	3.		M. de Villemontée, Dir.
Commercy, Normal School	29.15	740.3	29.99	761.8	60.6	15.9	81	wsw.			1		5 kn	wsw.	wsw.	0.016	0.4	cloudy	Dr. Coulet, Director.
Gap, Normal School	27.53	699.2	29.97	761.1	74.5	23.6	41	n.			1		9 s		ne.	0	0		M. Jeanginard, Director.
Gréasque, du Rhone	28.91	734.2	29.98	761.5	81.3	27.4	43	sw.			2		3		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.19	741.5	29.94	760.4	68.2	20.1	72	wnw.			1		kn		nw.	0	0		M. Ablard, Director.
Guéret, Normal School	28.35	720.0	29.88	758.9	62.6	17	73	w.			1		k		w.	0.16	4.		M. Rivoire, Director.
Lamballe, Normal School	29.04	752.8	29.91	759.6	62.6	17	98	nw.			2		10		nw.	0.425	10.8	covered	M. Ollitrault, Director.
Lescar, Normal School	29.40	746.8	29.95	760.8	70.5	21.4	70	w.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.60	751.9	29.71	754.6	65.5	18.6	84	wsw.			1		10		w.	0.709	18.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.92	734.6	29.95	760.7	68.4	20.2	62	s.			1		10 n		w.	0	0	covered	M. André, Director.
Mans, Normal School	29.52	749.8	29.82	757.5	58.3	14.6	90	s.			3		8		sw.	0	0	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.74	755.5	30.01	762.2	79.7	26.5	46	wsw.			1		4		w.	0	0		M. Stephan, Director.
Montlouis	29.90	632.5	29.74	755.5	68.9	20.5	34	sw.	16.8	7.5			6	nw.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.86	758.4	29.98	761.5	76.6	24.8	62	sw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.19	741.3	29.95	760.6	65.5	18.6	60	se.			1		kn		s.	0	0		M. Hasse, Director
Nantes, Observatory	29.61	752.1	29.77	756.2	65.5	18.6	84	sw.			2-4		10 n		w.	0.217	5.5		M. Larocque, Director.
Perpignan, Observatory	29.86	758.4	29.97	761.1	75.2	24.0	63	ne.	7.4	3.3			10		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.39	543.2			50.7	10.4		w.			2		5		w.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.95	735.4	29.98	761.5	71.0	22.0	46	s.			1		10			0	0	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.12	638.1			47.1	8.4	89	sw.			4		10			0.004	0.1	covered	M. Allnard, Director.
Rochefort, Naval Obs'y	29.93	760.1	29.90	760.9	66.9	19.4	89	wsw.			6		8	s.	ssw.	0.63	16.	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.53	750.1	29.74	755.4	62.2	16.8	96	sw.			4		10			0.268	6.8	light rain	M. Mouillot, Director.
Rodez, Normal School	27.82	706.7	29.89	759.3	72.3	22.4	55	w.			2		5		sw.	0	0	cloudy	M. Seger, Director.
Rouen, Normal School	29.81	757.2	29.82	758.4	62.6	17	80	sse.			1		10	sw.		0.24	6.	covered	M. Brotier.
Saint Maur, Observatory	29.74	755.4	29.91	759.6	61.2	16.2	82	s.			1		10		ssw.	0.161	4.1		M. Renou, Director.
Toulouse, Observatory	29.30	744.3	30.03	762.7	80.2	26.8	38	nw.			2		5		w.	0	0	cloudy	M. Baillaud, Director.
Tours	29.65	753.2	29.84	757.8	64.4	18	80	ssw.			1		10	sw.	sw.	0.138	3.5	rainy	M. de Tastes.
Versailles, Observatory	29.41	746.9	29.90	759.4	63.0	17.2	72	sw.			2					0.685	17.4		Dr. A. Périgny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.62	752.4	29.91	759.8	63.5	17.5	80	ssw.			1		9		ssw.	0.031	0.8	sprinkling	M. Marié Davy, Director
GERMAN.																			
Ansbach	28.59	726.1	29.99	761.8	66.7	19.3	53	calm			0		10			0.157	4.0		Prof. Jnedt.
Bamberg	29.15	740.4	30.00	762.0	66.4	19.1	60	calm			0	0	7 k;s			0	0		Prof. Dr. Hoh.
Berlin	29.91	759.7	30.08	764.1	73.0	22.8	55	w.			2		8			0.839	21.3		Prof. Dr. Arndt.
Breslau	29.50	749.2	30.03	762.7	71.2	21.8	53	nnw.			1		3			0.126	3.2		Royal University Obs'y.
Carlsruhe	29.52	749.9	29.95	760.8	68.4	20.2	65	e.			1		10	sw.		0.228	5.8		Albert Senz.
Cassel	29.21	742.0	29.93	760.1	73.0	22.8	48	sw.			4		8	sw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.61	752.0	29.96	761.0	68.0	20.0	65	s.			1		10			0.256	6.5		Physical Society.
Friedrichshafen	28.56	725.5	29.96	760.9	66.4	19.1	72	nw.			2		10	w.		0.209	5.3	showery	Wilhelm, Chief Tel.
Hamburg	29.87	758.8	29.97	761.2	68.7	20.4	56	wsw.			3		9			0.075	1.9		E. Preller.
Kiel	29.91	759.7	29.93	760.1	67.3	19.6	61	w.			2		10			0.043	1.1		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.58	751.2	29.98	761.5	74.3	23.5	45	ssw.			2		8	s.		0	0		H. Leppig, Asst.
Magdeburg	29.78	756.3	29.96	761.0	71.1	21.7	58	s.			1		10 ks		sw.	0.181	4.6		Dr. Assmann.
Memel	29.85	758.2	29.90	759.4	69.4	20.8	79	nw.			4		10 k						Isserumuc.
Munich	28.18	715.7	30.04	763.0	68.2	20.1	56	ne.			3		9	ne.		0.520	13.2		Dr. C. Lang.
Neufahrwasser	29.91	759.7	29.93	760.1	69.8	21.0	67	wnw.			3		4	wsw.		0.134	3.4		A. Lothes.
Neustadt, Palatinate	29.43	747.4	29.95	760.8	68.0	20.0	76	w.			2		10	w.		0	0		Dickuether.
Stuttgart	29.03	737.4	29.90	759.4	68.0	20.0	64	n.			3		10			0.280	7.1		Prof. Dr. Schoder.
Wustrow	29.98	761.4	30.00	762.0	68.4	20.2	63	wsw.			2	0	8 s			0.181	4.6		Profs. Brandes & Reimer
GREEK.																			
Athens	29.48	748.8			93.4	34.1		ne.			1.0		4			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.58	751.2	29.63	752.5	84.5	29.2	68	sw.	33.0	14.8			8		w.	0	0	gloomy	
Deesa	29.13	740.0	29.60	751.9	81.6	27.6	73	ssw.	11.5	5.1			10	sw.		0	0	overcast	
Bombay	29.70	754.3	29.74	755.3	80.9	27.2	83	w.	20.0	8.9			10	wsw.	wsw.	0.03	0.8	overcast	
Poona, Yarrowda	27.88	708.0	29.74	755.3	75.2	24	75	wsw.	20.0	8.9			9		w.	0.03	0.8	drizzling	
Trichinopoly	29.51	749.6	29.79	756.6	87.2	30.7	45	wnw.	7.0	3.1			10			0	0	overcast	
Bellary	28.21	716.6	29.64	752.9	91.7	33.2	42	w.					5	sw.		0	0	d. clouds	
Belgaum	27.24	692.0	29.79	756.7	72.0	22.6	81	wsw.	16.0	7.2			8	sw.	sw.	0.07	1.8	showery	
Lahore	28.83	732.4	29.57	751.0	81.0	27.2	85	ne.	1.0	0.4			8		e.	4.20	106.7	d. clouds	
Roorkee	28.63	727.3	29.50	749.3	91.6	33.1	70	calm	1.4	0.6			8			0.05	1.3		
Agra	28.93	734.9	29.48	748.9	89.7	32.1	70	e.	2.7	1.2			8		e.	0	0	d. clouds	
Nagpur	28.58	725.8	29.61	752.0	82.0	27.8	69	w.	5.0	2.2			8		w.	0.35	8.9	d. clouds	
Jubbulpore	28.22	716.8	29.58	751.2	76.0	24.4	88	w.	8.6	3.8			10			4.22	107.2	overcast	
Lucknow	29.14	740.2	29.51	749.4	91.1	32.8	62	ese.	5.2	2.3			4		s.	0.05	1.3	d. clouds	
Allahabad	29.17	741.0	29.48	748.8	81.7	27.6	85	se.	7.6	3.4			10	e.		0.19	4.8	overcast	
Patna	29.37	745.9	29.55	750.5	88.4	31.3	87	e.	9.8	4.4			5	e.	e.	0	0	d. clouds	
Hazaribagh	27.56	699.9	29.54	750.2	80.6	27.0	79	s.	12.2	5.4			2			0.06	1.5	thund'r st'm	
Cuttack	29.50	749.4	29.58	751.4	84.6	29.2	74	ssw.	0.4	0.2			7			0.13	3.3	d. clouds	
Calcutta, Alipore	29.53	750.0	29.55	750.6	83.2	28.4	85	ssw.	4.0	1.8			9	e.		0.05	1.3	d. clouds	
Dhubri	29.46	748.4	29.58	751.4	84.4	29.1	79	s.	2.1	0.9			8			0.04	1.0	d. clouds	
Chittagong	29.54	750.3	29.63	752.6	80.5	26.9	90	sse.	4.9	2.2			8			0	0	d. clouds	
Sibsagar	29.25	742.9	29.58	751.2	86.0	30.0	80	sw.	3.1	1.4			8	w.	w.	0.95	24.1	d. clouds	
Jeypore	28.12	714.2	29.55	750.4	80.4	26.9	89	nw.	5.4	2.4			10		nw.	0.87	22.1	thund'r st'm	
Zanzibar, Africa	30.03	762.7			81.2	27.3	54	se.	6.3	2.8			6		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.52	749.9	29.91	759.8	87.6	30.9	40	s.	4.3	1.9			4			0	0		Prof. Giovanni Cloding.
Milan	29.43	747.5	29.92	760.0	81.5	27.5	46	nw.	4.9	2.2			9	wnw.		0.020	0.5		Prof. Schiaparelli.
Padua	29.80	757.0	29.91	759.7	86.4	30.2	39	wsw.	7.4	3.3			9	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.04	737.6	29.91	759.6	79.0	26.1	59	ne.	2.5	1.1			9	nw.		0.028	0.7		Prof. P. F. Denza.
Genoa	29.83	757.7	30.02	762.4	75.2	24.0	75	se.	14.3	6.4			10	se.		0	0		Prof. G. M. Garibaldi.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Mondovi	28.06	712.8	29.90	759.4	75.0	23.9	65	nw.			2		7			0.031	0.8		Prof. D. C. Bruno.
Pesaro	29.87	758.8	29.92	760.0	80.1	26.7	66	ne.	11.2	5.0			6			0	0		Prof. Luigi Guidi.
Florence	29.74	755.4	29.98	761.4	85.3	29.6	43	w.			4		8			0	0		Prof. Costantino Pitter
Leghorn	29.87	758.7	29.95	760.8	82.6	28.1	54	sw.	3.8	1.7			4			0	0		Prof. P. Monte.
Rome	29.84	757.8	30.00	762.1	88.9	31.6	32	wsw.	6.9	3.1			0			0	0		Prof. P. S. Ferrari.
Lecce	29.71	754.6	29.95	760.7	85.8	29.9	35	nnw.	11.9	5.3			0			0	0		Prof. C. de Giorgi.
Cosenza	29.10	739.0	29.94	760.4	86.7	30.4	73	wsw.	4.3	1.9			0			0	0		Prof. D. Conti.
Cagliari	29.80	757.0	29.99	761.7	81.5	27.5	58	s.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.81	757.1	30.04	763.1	79.5	26.4	61	ne.	9.4	4.2			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.91	759.8	29.96	760.9	81.0	27.2	52	nne.	11.2	5.0			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.49	749.0	29.98	761.5	83.5	28.6	40	sw.	0.7	0.3			0			0	0		Prof. T. Brioschi.
Stelvio	22.27	565.6			51.8	11.0	53	w.			4		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.33	567.1			55.2	12.9	67	n.			2		7			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.81	757.2	29.82	757.4	69.0	20.6	88	calm	0	0			2			0.050	1.3	clear	I. Sogawa.
Hiroshima, I. M. Obs'y					80.6	27.0	87	sw.	0	0		1 cs	2 ck			0	0	fair	S. Endo.
Kanazawa																			M. Tojima.
Kioto	29.84	757.9	30.00	762.0	79.6	26.4	89	sw.	1.4	0.6			10ck;s		w.	0	0	cloudy	K. Kusunose.
Kochi																			
Nagasaki, I. M. Obs'y	29.82	757.5	30.02	762.4	81.2	27.3	85	calm	0	0		5 ck	3 ks			0	0	cloudy	S. Takehayashi.
Nemuro	29.70	754.4	29.76	755.9	69.5	20.8	80	calm	0	0		0	0			0	0	clear	
Niigata	29.92	760.0	29.96	761.0	78.3	25.7	75	sw.	5.5	2.5			10ck;s		w.	0	0	cloudy	M. Morita.
Nobiru	29.84	757.8	29.85	758.3	74.5	23.6	79	nnw.	8.0	3.6		0	2 s			0	0	fair	H. Midzushina.
Osaka	29.97	761.2	29.98	761.5	79.5	26.4	87	w.	17.3	7.7		3 ck	0	w.		0	0	clear	
Supporo					67.5	19.7	88	calm	0	0			0			0.610	15.5	clear	
Tokei Obs'y, Yeddo	29.85	758.2	29.92	759.9	76.1	24.5	92	s.	3.3	1.4		9 c;ck	0	sw.		0	0	cloudy	The Staff.
Wakayama	29.97	761.2	30.02	762.5	79.6	26.4	85	ssw.	5.9	2.6			10			0	0	cloudy	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	30.05	763.3	30.24	768.1	71.4	21.9	67	ese.	21.0	9.4		0	5 k;ks		ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.68	601.4	29.90	759.4	58.8	14.9	81	ene.				0	7 kn		wnw.	0	0	misty	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.03	762.7	59.7	15.4	77	nw.			1	9 c	0	n.		0	0	cloudy	Prof. M. Leal.
Mazatlan	29.60	751.9	29.86	758.4	78.5	25.8	91	e.	1.6	0.8		8 cs	0	ne.		0.059	1.5	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.10	586.7	30.13	765.2	53.8	12.1	77	calm	0	0		5 c	0			0.008	0.2	½ cloudy	The Staff.
Morelia	24.37	619.0	30.52	775.2	61.3	16.3	72	ne.			2	1	1	s.	s.	0	0	clear	M. Tena, M. D.
Orizaba	26.00	660.4	30.94?	786.5?	63.5	17.5	75	s.	10.9	4.9		1	0	s.		0	0	foggy	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.94	608.2	29.85	758.3	65.1	18.4	88	calm			0		10 ks		nne.	inap.	inap.	covered	M. Vde Leon, M. E
Puebla, Catholic Institute	23.43	595.0	30.18	766.6	54.0	12.2	89	nne.	1.8	0.8		0	0			1.989	50.5	clear	Prof. P. Spina.
San Luis Potosi	24.21	615.0	30.10	764.5	64.5	18.1	59	ese.					10		e.	0.051	1.3	covered	G. Barroeta, M. D.
Zacatecas	22.66	575.6	30.24	767.9	61.0	16.1	78	e.	6.7	2.9		0	0			0.315	8.1	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.91	759.6	29.91	759.6	65.8	18.8		se.			3					0.094	2.4		
Groningen	29.87	758.6	29.92	760.0	66.7	19.3		wsw.			3					0	0		
Helder	29.89	759.3	29.89	759.3	63.9	17.7		ssw.			2					0.157	4.0		
Hellevoetsluis	29.90	759.5	29.90	759.5	67.6	19.8	69	sse.			1					0.106	2.7		
Utrecht	29.87	758.8	29.92	760.0	67.1	19.5	64	sw.			3		8			0.354	9.0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.67	753.5	29.73	755.1	59.0	15.0	76	ssw.	16	7			8			0.185	4.7		
Brono	29.58	751.4	29.62	752.4	57.9	14.4	85	sw.	9	4			10			0.146	3.7		
Christiania	29.61	752.1	29.75	755.7	64.0	17.8	68	sse.	9	4			8			0	0		
Gjæsvær	29.63	752.7	29.66	753.3	70.0	21.1		calm			0		5						
Lodingen	29.56	750.7	29.60	751.9	63.5	17.5	72	calm			0		10			0.965	24.5		
PORTUGUESE.																			
Angra, Azores					73.2	22.9	83	s.	3.1	1.4			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.11	739.3	30.05	763.3	87.6	30.9	18	nne.	2.5	1.1			4			0	0		Dr. A. M. R. dos Santos
Funchal, Maderia	30.11	764.7	30.19	766.9	73.4	23.0	63	sw.	8.7	3.9			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.84	757.8	30.19	766.7	75.4	24.1	57	n.	22.4	10.0			2	nw.		0	0		The Staff.
Ponta Delgada, Azores	30.33	770.4	30.40	772.1	78.4	25.8	64	calm	0	0			4			0	0		
Saint Paul de Loando	29.84	757.9	30.04	763.1	68.7	20.4	86	nw.	0.7	0.3			3	n.		0	0		
Serra da Estrella	25.46	646.6	30.13	765.2	57.0	13.9	85	wnw.	24.2	10.8			6			0	0	foggy	
RUSSIAN.																			
Akmolinski	28.93	734.9	29.97	761.1	75.9	24.4	29	calm	0	0		0	0			0	0		Major K. Lasarew.
Archangel	30.10	764.6	30.12	765.1	65.3	18.5	80	ese.	4	2			10			0	0	light clouds	Capt. Ssellwerstow.
Astrakhan	30.04	763.0	29.96	760.9	86.9	30.5	51	se.	13	6		0	2 s			0	0		Capt. Wisganow.
Barnaul	29.58	751.2	30.06	763.4	67.5	19.7	49	nw.	4	2			8			0	0		Meteorological Obs'y.
Dorpat	29.61	752.0	29.83	757.7	87.1	30.6	52	s.	7	3		0	4 k			0.008	0.2		Observatory.
Ekaterinburg	29.05	737.8	29.98	761.5	67.6	19.8	82	nne.	9	4			10			0	0		Meteorological Obs'y.
Irkutsk	28.25	717.6	29.85	758.1	61.2	16.2	71	nw.	18	8			10ks;n			0.161	4.1		
Kasan	29.75	755.7	30.00	762.0	93.2	34.0	33	sw.	4	2		c	8 k			0	0		Observatory.
Kertch	29.71	754.7	29.73	755.2	85.5	29.7	78	sse.	9	4		0	5 ks			0	0		Lagorio & Sastyrez.
Kieff	29.21	742.0	29.80	756.8	88.9	31.6	35	nne.	9	4		0	1 k			0	0		Observatory.
Lugan	29.63	752.6	29.82	757.4	97.2	36.2	16	ese.	22	10			7			0	0		Meteorological Obs'y.
Moscow	29.46	748.3	29.89	759.3	89.4	31.9	45	calm	0	0			6 s						Meteorological Obs'y.
Nikolaiev	29.76	755.8	29.83	757.6	86.5	30.3	54	n.	0	0		0	8 kn			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.61	752.1	29.75	755.7	81.9	27.7	63	sw.	4	2		0	1 k			0	0		Physical Observatory
St. Petersburg	29.88	759.0	29.90	759.4	83.7	28.7	54	sse.	13	6		ck	2 k			0	0		Central Physical Obs'y
Semipalatinsk	29.42	747.3	30.05	763.2	76.3	24.6	29	n.	4	2			0			0	0		Major Lasarew
Tashkend, Laboratory	28.11	713.9	29.56	750.7	89.4	31.9	52	calm	0	0			1			0	0		Telch, A. M.
Tiflis	28.44	722.4	29.75	755.6	98.1	36.7	18	s.	9	4		1 c	0						Physical Observatory
Vladivostock	29.69	754 0	29.75	755.7	70.9	21.6	87	e.	4	2		0	0						
Warsaw	29.49	749.1	29.89	759.3	78.8	26.0	55	w.	9	4		0	7 ks					heavy cl'ds.	Astronomical Obs'y
Wilna	29.47	748.6	29.87	758.6	80.4	26.9	65	se.	2	1			7			0.079	2.0	thnd'r storm	Berg, Assistant.
Yeniseisk	29.65	753.2	29.94	760.4	55.8	13.2	98	w.	9	4			3			0.059	1.5		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.89	759.1	29.98	761.6	81.5	27.5	66	sw.	4.3	1.9			2					clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.01	762.2	30.07	763.7	81.3	27.4	52	nw.	2.2	1.0		0	0			0	0	clear	Prof. Manuel de Naveran
Burgos, Met. Obs'y	27.14	689.4	29.99	761.7	74.8	23.8	33	sw.	7.4	3.3			1			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.5	29.95	760.8	86.4	30.2	29	w.	8.1	3.6		5	0			0	0	light clouds	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director.
Santiago, Met. Obs'y	29.25	742.9	30.13	765.2	66.2	19.0	77	w.	3.8	1.7			10			0.079	2.0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.																			Benito Vines, S. J.
Manilla, Philippine Islands	29.76	755.8	29.81	757.2	80.4	26.9	80	w.	12.1	5.4			9 ck		wsw.	0.102	2.6	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.7	30.09	764.1	82.2	27.9	50	wnw.	2.6	1.2		0	5		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.98	761.6	30.08	763.9	82.0	27.8	84	se.	6.5	2.9		1 s	3 k	se.	se.	0.039	1.0		Manuel Maese.
Tuguegarao, Philippine Id's	29.65	753.1	29.78	756.4	81.4	27.4	85	nw.	3.3	1.5		3 cs	3 k	e.	nne.	0.01	0.3	cloudy	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.81	757.1	29.85	758.1	72.7	22.6	57	s.			2		0			0	0		
Umea	29.81	757.1	29.86	758.4	69.1	20.6	75	sw			6		5			0.138	3.5		
Hernosand	29.73	755.1	29.78	756.4	59.7	15.4	91	s.			4		10			0	0		
Stockholm	29.61	752.0	29.78	756.5	57.9	14.4	97	w.			2		10					raining	
Wisby	29.77	756.2	29.83	757.7	62.6	17.0	84	nw.			6		10			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Sub-series.																			
Upsala	29.67	753.5	29.75	755.7	57.9	14.4	100	nw.	10.7	4.8			10		ssw.	0.327	8.3	raining	S. G. Fineman.
SWISS.																			
Geneva	28.58	725.9	29.98	761.4	63.7	17.6	83	nw.			1					0.087	2.2	covered	The Observatory
SCOTTISH.																			
Monach Lt			29.95	760.7	57	13.9	94	n.			3	3	0	n.		0	0	clear	J. Youngclause.
North Unst			29.66	753.4				nw.			4					blank	blank		
TURKISH.																			
Constantinople			29.87	758.7	84.0	28.9	66	ne.	8	3.5			1		n.	0	0		The Observatory.
Valona			30.10	764.4	84.4	29.1		sw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.86	758.4	85.1	29.5	54	w.			2	0	7 s		w.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.02	762.5	30.10	764.5	74.5	23.6	68	sw.	2	0.9		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.30	744.2	29.94	760.5	70	21.1	84	sw.	14	6.3		0	4 s			0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.04	636.0	29.78	756.4	60	15.6	93	se.	3	1.3			10 s		calm	0.10	2.5	cloudy	W. O. Barnes.
Assinnaboine, Ft., Montana	27.15	689.6	29.88	758.9	52	11.1	86	sw.	18	8.0			10 n		sw.	0.02	0.5	light rain	B. O. Lenoir.
Atlanta, Georgia	28.91	734.3	30.06	763.5	60.2	15.7	100	ne.	14	6.3			10 n			1.23	31.2	light rain	H. Hall.
Atlantic City, New Jersey	30.09	764.3	30.10	764.5	75.4	24.1	82	sw.	2	0.9		6 c	0	calm		0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.90	759.4	30.09	764.3	72.0	22.2	83	ne.	5	2.2			10 s		se.	0.03	0.8	cloudy	John Healy.
Baltimore, Maryland	30.10	764.5	30.15	765.8	76	24.4	64	nw.	2	0.9		7 cs	sk.	nw.		0	0	fair	Robert Seyboth.
Barnegat, New Jersey	30.08	764.0	30.10	764.5	74.5	23.6	73	w.	3	1.3		0	0			0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.12	714.2	29.66	753.4	66	18.9	90	nw.	1	0.4		5 k	5 s	calm	calm	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.16	689.9	29.87	758.7	52	11.1	93	nw.	11	4.9		0	9 n			0.06	1.5	light rain	G. W. Davis.
Behring Island, Behring Sea	29.59	751.6	29.61	752.1	49.4	9.7		sw.	18	8.0			10 s			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	27.99	710.9	29.71	754.6	66	18.9	84	n.	10	4.5		1 ck	8 s		sw.	0.09	2.3	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.06	763.5	30.10	764.5	74.5	23.6	73	w.	6	2.7		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.29	693.2	30.01	762.2	54	12.2	69	w.	4	1.8		5 cs	0	w.		0	0	fair	B. E. Light.
Boston, Massachusetts	29.90	759.4	30.05	763.3	72.0	22.2	64	w.	5	2.2		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.84	757.9	29.88	758.9	75.7	24.3	90	ne.	2	0.9		5 cs	4 ks	ne.	ne.	inap.	inap.	cloudy	M. McCarty.
Buffalo, New York	29.36	745.7	30.09	764.3	71	21.7	63	s.	6	2.7		0	hz.			0	0	clear	Wm. Finn.
Buford, Fort, Dakota	27.80	706.1	29.74	755.4	62	16.7	78	ne	5	2.2		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.72	754.9	30.00	762.0	73.5	23.1	58	s.	9	4.0		1 ck	0	n.		0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.70	754.4	30.09	764.3	67.8	19.9	86	e.	4	1.8		3 ck	0	e.		0	0	clear	W. H. Ray.
Campo, California																			W. H. Glendenon
Camp Thomas, Arizona	27.14	689.3	29.73	755.1	74	23.3	73	s.			1		9 ks		sw.	0	0	cloudy	J. T. Fitzgerald.
Cape Henry, Virginia	30.13	765.3	30.15	765.8	74	23.3	84	s.	1	0.4			10 s		s.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.10	764.5	30.13	765.3	72.8	22.7	84	s.	3	1.3		6 cs	0	sw.		0	0	fair	W. E. Smith.
Cape Mendocino																			J. R. Williams.
Cedar Keys, Florida	29.99	761.7	30.01	762.2	79	26.1	82	se.	17	7.6		0	5 s			3.43	87.1	fair	F. W. Mixer.
Champaign, Illinois	29.29	744.0	30.08	764.0	67.4	19.7	74	s.	4	1.8		0	sk.			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.03	762.7	30.08	764.0	70	24.4	97	ne.	3	1.3		0	9 ks		se.	0.42	10.7	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.27	743.4	30.10	764.5	70.0	21.1	76	ne.	4	1.8			10 s			0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.29	744.0	30.09	764.3	68.0	20.0	87	s.	1	0.4			10 s		s.	inap.	inap.	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.07	611.4	29.76	755.9	57.3	14.1	57	nw.	1	0.4		0	4 s		nw.	0	0	fair	E. McGovern.
Chicago, Illinois	29.35	745.5	30.04	763.0	71.8	22.1	62	sw.	4	1.8		4 k	0	w.		0	0	fair	J. Mitchell.
Chincoteague, Virginia	30.12	765.0	30.14	765.5	75	23.9	82	s.	3	1.3		6 c	hz.	s.		0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.47	748.5	30.11	764.8	69.5	20.8	77	e.	2	0.9		3 c	0			0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.40	746.7	30.12	765.0	68.1	20.1	70	s.	5	2.2		5 k	0	sw.		0	0	fair	J. B. Newlin.
Coleman City, Texas	28.20	716.3	29.96	761.0	71	21.7	90	se.	1	0.4		6 cs	0			0	0	fair	L. Dorman.
Columbus, Ohio	29.29	744.0	30.12	765.0	64	17.8	78	calm	0	0		1 cs	0			0	0	clear	D. Cuthbertson.
Concho, Texas	28.07	713.0	29.95	760.7	70	21.1	90	calm	0	0		0	0			0	0	clear	W. W. McConihe.
Custer, Fort, Montana	26.59	675.4	29.61	752.1	62	16.7	48	se.	7	3.1		0	0			0	0	clear	V. Verge.
Davenport, Iowa	29.40	746.7	30.03	762.7	70	21.1	70	s.	1	0.4		2 k	sk.	s.	s.	0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.19	639.8	29.83	757.7	69	20.6	59	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.42	721.9	30.13	765.3	47.6	8.7	84	sw.	3	1.3		2 c	3 k	sw.	sw.	0.12	3.0	fair	H. Clifford.
Deadwood, Dakota	25.26	641.6	29.68	753.9	61.0	16.1	70	sw.	2	0.9		7 cs	0	w.		0	0	fair	G. W. Scott.
Decatur, Texas					72	22.2	50	s.	4	1.8		0	3 ks		s.	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.10	764.5	30.12	765.0	72	22.2	90	sw.	8	3.6		6 c	0	w.		0	0	fair	A. Schneider.
Denison, Texas	29.21	741.9	29.99	761.7	69.3	20.7	90	calm	0	0		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.73	628.1	29.74	755.4	64.0	17.8	56	s.	8	3.6		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.12	739.6	30.00	762.0	69	20.6	76	sw.	4	1.8		3 ck	0	w.		0	0	clear	F. W. Conrad.
Detroit, Michigan	29.40	746.7	30.09	764.3	71.0	21.7	76	s.	4	1.8		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.37	695.2	29.87	758.7	68.0	20.0	84	s.	8	3.6		0	3 s		s.	0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.31	744.5	30.00	762.0	70	21.1	71	s.	1	0.4		0	fg.			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.13	739.9	29.85	758.2	70	21.1	84	w.	10	4.5			10 s		w.	0.60	15.2	cloudy	N. B. Conger.
Eagle Pass, Texas	29.18	741.2	29.97	761.2	76.1	24.5	82	se.	2	0.9		0	1 s			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.33	643.4	29.88	758.9	54	12.2	55	s.	25	11.2		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.91	759.7	29.97	761.2	60.0	15.6	75	ne.	4	1.8		1 c	hz.			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.22	691.4	29.86	758.4	66	18.9	70	se.	8	3.6		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	20.23	666.2	29.83	757.7	76	24.4	54	e.	2	0.9		5 ck	0	e.		0	0	fair	J. F. Marshall.
Erie, Pennsylvania	29.39	746.5	30.10	764.5	71	21.7	71	s.	3	1.3		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.27	743.4	29.91	759.7	70	21.1	84	calm	0	0		4 c	5 s			inap.	inap.	cloudy	C. Dill.
Fredericksburg, Texas	28.26	717.8	29.96	761.0	73	22.8	82	calm	0	0		4 k	0	ne.		0	0	fair	H. S. Miles.
Galveston, Texas	29.90	759.4	29.95	760.7	79	26.1	82	e.	12	5.4		0	5 k; hz		se.	0.02	0.5	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.39	746.5	30.04	763.0	73.0	22.8	76	s.	8	3.6		5 cs	0			0	0	fair	W. A. Reid.
Grant, Fort, Arizona	25.22	640.6	29.79	756.7	71.9	22.2	02	se.	1	0.4			10 s			0	0	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.08	764.0	30.10	764.5	76.0	24.4	90	ne.	12	5.4		7 k	hz	ne.		0	0	fair	R. M. Crawford.
Helena, Montana	25.83	656.1	29.89	759.2	55	12.8	53	w.	6	2.7		0	0			0	0	clear	S. Wheaton.
Henrietta, Texas	29.02	737.1	30.00	762.0	73.0	22.8	82	se.	4	1.8		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.41	721.6	29.73	755.1	69.2	20.7	87	se.	8	3.6		1 k	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.32	744.7	30.09	764.3	71	21.7	68	calm	0	0		2 k	hz.	se.		0	0	clear	O. Schutze
Indianola, Texas	29.91	759.7	29.94	760.5	79.0	26.1	88	ne.	12	5.4		1 ck	2 k	n.	ne.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.86	733.0	29.98	761.5	70	21.1	84	e.	1	0.4		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.98	761.5	30.02	762.5	80	26.7	82	se.	4	1.8		2 cs	0			0.06	1.5	clear	J. W. Smith.
Keogh, Fort, Montana	27.23	691.6	29.64	752.8	66	18.9	50	se.	5	2.2		3 c	0			0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.38	746.2	30.01	762.2	73.5	23.1	65	s.	1	0.4		0	0			0	0	clear	F. Z. Gosewisch
Key West, Florida	29.98	761.5	30.00	762.0	80.5	30.3	72	se.	6	2.7		2 c	3 k			0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	29.13	739.9	30.15	765.8	75.0	23.9	84	e	8	3.6		5ck; cs	0	w.		0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.10	739.1	30.10	764.5	66.8	19.3	93	ne.	3	1.3			10 s			0	0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.20	741.7	29.95	760.7	75	23.9	64	s.	8	3.6		0	5 s		se.	0	0	fair	S. C. Emery
La Mesilla, New Mexico	26.06	661.9	29.80	756.9	70.8	21.6	66	calm	0	0		4 c	3 s			0	0	fair	N. D. Lane.
Leavenworth, Kansas	29.15	740.4	30.01	762.2	69	20.6	70	s.	1	0.4		1 cs	0	w.		0.17	4.3	clear	A. W. Browne.
Lewiston, Idaho	29.32	744.7	30.13	765.3	57.0	13.9	72	w.	3	1.3		7 k	0	w.		0.15	3.8	fair	W. Bell.
Little Rock, Arkansas	29.74	755.4	30.05	763.3	70	21.1	79	ne.	2	0.9		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.53	750.0	29.92	760.0	59.4	15.2	81	s.	2	0.9		0	3 s			0	0	clear	E. F. Kubel.
Louisville, Kentucky	29.52	749.8	30.07	763.8	69	20.6	76	e.	4	1.8		5 c	sk.			0	0	fair	H. C. Smyth.
Lynchburg, Virginia	29.47	748.5	30.14	765.5	69.5	20.8	76	se.	1	0.4		7 c	2 s			0	0	cloudy	W. R. Bushby.
Macon, Fort, North Carolina	30.10	764.5	30.11	764.8	70	24.4	90	ne.	6	2.7		5 k	0	ne.		0	0	fair	F. P. Chaffee.
Madison, Wisconsin	29.03	737.3	30.01	762.2	70	21.1	66	sw.	5	2.2		4 cs	0	w.		0	0	fair	C. A. Shaw.
Maginnis, Fort, Montana	25.60	650.2			50	10.0	66	nw.	30	13.4		4 k	0	sw.		0	0	fair	H. W. Dodge.
McKavett, Fort, Texas	27.80	706.1	30.00	762.0	70	21.1	84	se.	2	0.9		0	0			0.12	3.0	clear	J. E. Thatcher.
Marquette, Michigan	29.20	741.7	29.90	759.4	73	22.8	71	nw.	10	4.5		6 k	0	nw.		0.17	4.3	fair	J. Gilligan.
Memphis, Tennessee	29.73	755.1	30.06	763.5	74	23.3	71	e.	3	1.3		1 k	hz.			0	0	dense haze	D. T. Flannery.
Milwaukee, Wisconsin	29.29	744.0	30.02	762.5	72	22.2	62	sw.	9	4.0		5 c	0			0	0	fair	W. Line.

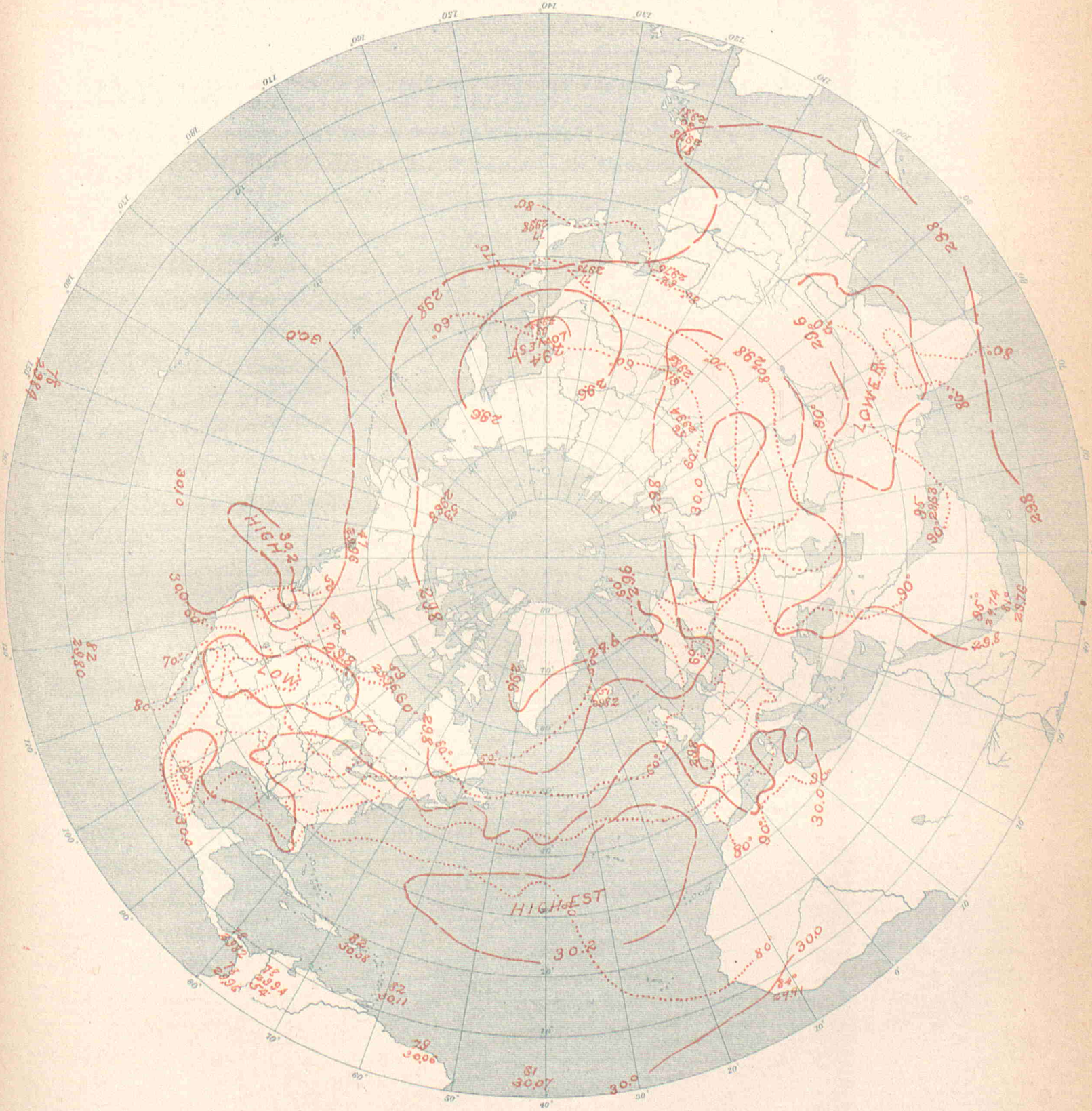
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.77	679.9	29.96	761.0	48	8.9	86	nw.	2	0.9	.....	5 k	0	sw.	.....	0.16	4.1	fair	J. H. Jones.
Mobile, Alabama	29.95	760.7	29.99	761.7	70.5	21.4	84	ne.	8	3.6	.....	.....	10 s	.....	ne.	0.02	0.5	cloudy	C. A. Read.
Montgomery, Alabama	29.79	756.7	30.01	762.2	65.6	18.7	91	ne.	5	2.2	.....	.....	10 s	.....	ne.	0.17	4.3	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.75	730.2	29.71	754.6	70	21.1	90	s.	12	5.4	.....	0	0	.....	.....	0.46	11.7	clear	H. Bessant.
Morgantown, W. Virginia	29.16	740.7	30.16	766.1	65.5	18.6	86	calm	0	0	.....	1 cs	0	.....	.....	0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.08	611.6	30.15	765.8	49.0	9.4	86	nw.	45	20.1	.....	0	hz.	.....	.....	0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.52	749.8	30.04	763.0	70.0	21.1	78	calm	0	0	.....	.....	10 ks	.....	.....	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.98	761.5	30.09	764.3	72.5	22.5	78	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.06	763.5	30.10	764.5	76	24.4	74	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.89	759.2	29.94	760.5	72.8	22.7	83	ne.	7	3.1	.....	0	sk.	.....	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	30.03	762.7	30.08	764.0	77.4	25.2	61	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. McGillivray.
New York, New York	29.95	760.7	30.12	765.0	76.5	24.7	71	w.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.12	765.0	30.15	765.8	76	24.4	69	calm	0	0	.....	9 ck	hz.	.....	.....	0	0	cloudy	H. L. Kemp.
North Platte, Nebraska	26.99	685.5	29.79	756.7	68.6	20.3	74	calm	0	0	.....	0	2 s	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.15	765.8	30.19	766.8	45.0	7.2	93	s.	3	1.3	.....	0	2 s	.....	calm	0.09	2.3	clear	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.66	753.4	29.68	753.9	53.0	11.7	92	e.	11	4.9	.....	1 c	3 s	sw.	.....	0	0	fair	P. H. Ray.
Omaha, Nebraska	28.81	731.8	29.94	760.5	75.0	23.9	76	s.	10	4.5	.....	5 ck	0	se.	.....	0	0	fair	A. Pollak.
Oswego, New York	29.71	755.4	30.06	763.5	73.4	23.0	58	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.48	748.8	30.02	762.5	70.0	21.1	84	ne.	7	3.1	.....	3 k	0	e.	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	29.94	760.5	29.98	761.5	70.1	21.2	90	ne.	6	2.7	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	M. McGauran.
Philadelphia, Pa.	30.04	763.0	30.14	765.5	79.5	26.4	54	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.02	457.7	29.80	756.9	36	2.2	79	nw.	7	3.1	.....	0	1 s	.....	.....	0.05	1.3	clear	L. M. Dey.
Ploche, Nevada	24.06	611.1	29.79	756.7	60.0	15.6	18	calm	0	0	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.34	745.2	30.14	765.5	65.0	18.3	90	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. H. Bryce.
Poplar River, Montana	27.85	707.4	.....	.....	.....	.....	.....	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	29.93	760.2	29.94	760.5	74.1	23.4	90	ne.	18	8.0	.....	3 c	5 s	sw.	nw.	0.58	14.7	cloudy	M. Hermann.
Port Huron, Michigan	29.41	747.0	30.07	763.8	68.1	20.1	80	sw.	3	1.3	.....	3 cs	0	nw.	.....	0	0	clear	W. O. Bailey.
Portland, Maine	29.96	761.0	30.01	762.2	76	24.4	66	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.15	765.8	30.22	767.6	49.0	9.4	93	calm	0	0	.....	.....	fg.	.....	.....	0.15	3.8	dense fog	M. L. Hearne.
Prescott, Arizona	24.86	631.4	29.85	758.2	60	15.6	54	s.	1	0.4	.....	0	0	.....	.....	0.01	0.3	clear	J. Mc N. Wright.
Provincetown, Mass.	30.03	762.7	30.06	763.5	73.0	22.8	71	w.	6	2.7	.....	0	1 s	.....	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	29.99	761.7	30.00	762.0	78.5	25.8	89	e.	8	3.6	.....	8 c	1 k	s.	calm	0.03	0.8	cloudy	W. J. Evans.
Red Bluff, California	29.58	751.3	29.94	760.5	66.8	19.3	44	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.72	754.9	29.95	760.7	76	24.4	88	se.	1	0.4	.....	.....	9 s	.....	se.	0.62	15.7	cloudy	P. M. Wilson.
Rochester, New York	29.41	747.0	30.06	763.5	67	19.4	68	sw.	7	3.1	.....	5 k	hz.	w.	.....	0	0	fair	E. W. McGann.
Roseburg, Oregon	29.62	752.3	30.16	766.1	47	8.3	86	calm	0	0	.....	5 c	0	w.	.....	inap.	inap.	fair	J. J. Naury.
Sacramento, California	29.85	758.2	29.92	760.0	59.2	15.1	75	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.51	749.5	30.09	764.3	68.5	20.3	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.00	736.6	29.84	757.9	72	22.2	84	se.	12	5.4	.....	0	9 ks	.....	s.	0.03	0.8	cloudy	P. F. Lyons
St. Vincent, Minnesota	28.84	732.5	29.68	753.9	65	18.3	90	ne.	5	2.2	.....	0	4 s	.....	e.	0.30	7.6	fair	G. Kingsbury.
Salt Lake City, Utah	25.64	651.2	29.82	757.4	63	17.2	40	nw.	8	3.6	.....	0	0	.....	.....	0.10	2.5	clear	J. Craig.
San Antonio, Texas	29.27	743.4	29.95	760.7	73.5	23.1	90	calm	0	0	.....	0	5 ks	.....	n.	0	0	fair	T. J. Kenan.
San Diego, California	29.80	756.9	29.87	758.7	61.6	16.4	88	s.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.43	747.5	30.09	764.3	69.2	20.7	70	s.	8	3.6	.....	5 ck	0	sw.	.....	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.07	763.8	30.10	764.5	76.0	24.4	82	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	B. A. Blundon.
San Francisco, California	29.93	760.2	30.00	762.0	54	12.2	90	w.	3	1.3	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.32	592.3	29.82	757.4	59	15.0	67	ne.	3	1.3	.....	3 c	0	sw.	.....	0.63	16.0	clear	H. U. Jones.
Savannah, Georgia	29.95	760.7	30.04	763.0	77	25.0	88	e.	3	1.3	.....	4 cs	2 k	.....	se.	1.41	35.8	fair	H. W. Ford.
Shaw, Fort, Montana	26.35	669.3	29.86	758.4	48	8.9	86	sw.	11	4.9	.....	0	0	.....	.....	0.32	8.1	clear	A. L. Mathews.
Shreveport, Louisiana	29.78	756.4	30.01	762.2	70	21.1	84	e.	2	0.9	.....	1 ck	0	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.78	731.0	29.98	761.5	70.5	21.4	83	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Silver City, New Mexico	24.30	617.2	29.76	755.9	64	17.8	70	nw.	2	0.9	.....	0	4 k	.....	calm	0.07	1.8	fair	J. B. Wallace.
Sitka, Alaska	29.90	759.4	29.96	761.0	46.6	8.1	93	calm	0	0	.....	0	0	.....	.....	0.02	0.5	clear	J. J. McLean.
Smith, Fort, Arkansas	29.57	751.1	30.03	762.7	69.0	20.6	84	e.	4	1.8	.....	3 k	0	e	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.08	764.0	30.11	764.8	77	25.0	76	ne.	5	2.2	.....	4 cs	0	w.	.....	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.07	713.0	30.05	763.3	47	8.3	77	sw.	4	1.8	.....	5 k	0	.....	.....	0.01	0.3	fair	D. Moore.
Springfield, Illinois	29.42	747.3	30.08	764.0	69	20.6	70	calm	0	0	.....	hz	hz.	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.98	761.5	30.11	764.8	75.6	24.2	64	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo.	28.65	727.7	30.04	763.0	67	19.4	81	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. B. Marbury.
Starkville, Miss.	29.57	751.1	30.04	763.0	75	23.9	71	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. J. Wright, jr.
Stevenson, Fort, Dakota	27.99	710.9	29.77	756.1	63	17.2	90	nw.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	W. Burrows
Stockton, Fort, Texas	26.96	684.8	29.90	759.4	67.0	19.4	90	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.99	761.7	30.04	763.0	72.0	22.2	82	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. Liebmann
Toledo, Ohio	29.40	746.7	30.06	763.5	72	22.2	66	sw.	4	1.8	.....	1 ck	0	sw.	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.46	697.5	29.78	756.4	78	25.6	66	se.	3	1.3	.....	.....	10 ks	.....	.....	0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.87	758.7	30.23	767.8	52	11.1	72	nw.	4	1.8	.....	0	1 s	.....	.....	0.03	0.8	clear	J. Daly.
Uvalde, Texas	29.02	737.1	29.96	761.0	72	22.2	90	se.	3	1.3	.....	10 ck	0	ne.	.....	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	69.2	20.7	61	sw.	.....	.....	1	3 cs	2 s	sw.	sw.	0.02	0.5	fair	D. Brooks.
Vicksburg, Mississippi	29.78	756.4	30.02	762.5	71	21.7	90	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	H. P. Brisbane.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.43	620.5	29.76	755.9	52.4	11.3	63	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.04	763.0	30.15	765.8	72.4	22.4	70	calm	0	0	.....	5 c	hz.	nw.	.....	0	0	fair	B. M. Purssell.
West Las Animas, Colorado	26.00	660.4	29.76	755.9	66.4	19.1	77	calm	0	0	.....	2 cs	0	.....	.....	0	0	clear	F. W. Brandenburg.
Williamsport, Pa.	29.55	750.6	30.13	765.3	65	18.3	78	w.	3	1.3	.....	0	sk.	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.06	763.5	30.11	764.8	76	24.4	76	ne.	3	1.3	.....	2 ck	3 s	.....	.....	inap.	inap.	fair	A. T. Sherwood.
Winnemucca, Nevada	25.71	653.0	29.93	760.2	48.5	9.2	49	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.55	725.2	29.82	757.4	74	23.3	76	calm	0	0	.....	4 ck	0	.....	.....	0.03	0.8	fair	J. H. Atfield.
Yuma, Arizona	29.58	751.3	29.72	751.9	81.7	27.6	45	calm	0	0	.....	3 c	3 s	.....	.....	0	0	fair	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6	.....	.....	54.0	12.2	71	n.	7	3.1	.....	.....	8 s	.....	w.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.10	764.5	30.11	764.8	82	27.8	91	ne.	.....	.....	.....	2 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.93	760.2	29.96	761.0	78	25.6	86	s.	2	0.9	.....	.....	10 ks	.....	calm	0.10	2.5	cloudy	J. I. Plume.
Kingston, Jamaica, W. I.	30.04	763.0	30.05	763.3	81.7	27.6	75	n.	1	0.4	.....	1 cs	0	ne.	.....	0	0	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	71	21.7	.....	calm	.....	.....	0	0	0	.....	.....	1.32	33.5	.....	S. M. Pike.
Navassa	29.89	759.2	29.97	761.2	82	27.8	72	e.	10	4.5	.....	2 k	2 cs	s.	ne.	0	0	.....	F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	79	26.1	87	e.	.....	.....	1	5 ck	5 k	.....	e.	0.660	16.8	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.38	746.2	29.94	760.5	78	25.6	89	calm	.....	.....	0	1 c	1 s	s.	s.	0	0	clear	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	94	ne.	.....	.....	2	.....	10 ks	.....	ne.	0	0	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.04	763.0	30.07	763.8	81	27.2	74	calm	0	0	.....	4 c	0	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A.	29.91	759.7	29.96	761.0	59.0	15.0	88	nw.	13	5.8	.....	0	0	.....	.....	0	0	clear	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S Alert, S. 4° 20′, W. 14° 16′	30.13	765.3	77.5	25.3	74	se.			3		2							d. clouds.
H. M. S. Amethyst, S. 35° 01′, W. 54° 20′	30.41	772.4	52.5	11.4	97	e.			1		2	ne.						misty.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.86	758.4	84	28.9		n.			2									blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.03	762.7	60	15.6		ese.			3-4		0							blue sky.
H. M. S. Champion, Yokohama, Japan			82	27.8	100	s.			4-5		5					4	sw.	squally.
H. M. S. Comus, N. 49° 40′, W. 154° 22′	30.02	762.5	52	11.1	86	wnw.			1		9					4	sw.	misty.
H. M. S. Diamond, S. 9° 50′, E. 100° 47′	29.88	758.9	82	27.8	87	sse.			1-2		10	s.						overcast.
H. M. S. Dido, N. 14° 50′, W. 61° 30′	30.10	764.5	79	26.1		var.			1-2									showery.
H. M. Dock Yard, Bermuda, W. I.	30.18	766.6	81.5	27.5	76	sw.			1-2		3	ssw.						d. clouds.
H. M. S. Druid, N. 39° 42′, W. 51° 54′	30.01	762 2	76	24.4	92	sw.			6		10					5	sw.	squally.
H M. S. Eclipse, N. 12° 32′, E. 44° 07′	29.66	753.4	81	27.2		sw.			3		3							d. clouds.
H. M. S. Emerald, N. 17° 00′, W. 25° 00′	30.10	764.5	76	24.4	95	nne.			4		10	nne.				4	nne.	d. clouds.
H. M. S. Euryalus, N. 17° 00′ E 41° 40′	29.74	755.4	95	35.0	67	nw.			1		0							blue sky.
H. M. S. Espiegle, S. 17° 35′, E. 168° 16′	30.05	763.3	67	19.4	94	ese.			1-2		4	w.						d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.05	763.3	57.5	14.2	93	se.			2		10							drizzling.
H. M. S. Garnet, N. 20° 30′, W. 26° 30′	30.15	765.8	75	23.9	76	nne.			5		10					3	nne.	overcast.
H. M. S. Iron Duke, N. 51° 26′, E. 140° 52′	29.33	745.0	63	17.2	100	calm			0		10							d. clouds.
H. M. S. Kingfisher, N. 48° 10′, W. 124° 50′	30.14	765.5	51	10.6		sw.			1		6							d. clouds.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.90	759.4	80.3	26.8	94	calm			0		6							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.99	761.7	51.5	10.8		ne.			1		10							d. clouds.
H. M. S. Magpie, N. 32° 44′, E. 129° 51′	30.00	762.0	84.2	29.0	83	calm			0		8							d. clouds.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.87	758.7	80.5	26.9	76	nw.			2		0					1	nw.	blue sky.
H. M. S. Nelson, S. 35° 16′ E. 174° 08′	29.85	758.2	51	10.6	86	sw.			1									blue sky.
H. M. S. Northampton, Halifax, Nova Scotia	29.94	760.5	67	19.4	90	ese.			2		10							misty.
H. M. S. Orontes, N. 33° 10′ E. 23° 15′	29.91	759.7	79.5	26.4	93	wnw.			3		4	nw.				2	wnw.	d clouds.
H. M. S. Pegasus, N. 5° 24′, E. 100° 20′	29.81	757.2	82.5	28.1	74	nnw.			2-4		10					4	n.	raining.
H. M. S. Rambler, James Bay, Saint Helena Is'd	30.20	767.1	71	21.7	85	ese.			3		6	ese.						squally.
H. M. S. Rocket, Vancouver Island, B. C.	30.13	765.3	51	10.6	100	wsw.			1		6							d. clouds.
H. M. S. Sappho, N. 2° 00′ W. 150° 00′	29.84	757.9	77.5	25.3		e.			3-4		3	e.				2	e.	d. clouds.
H. M. S. Swiftsure, S. 38° 00′, W. 56° 01′	30.56	776.2	48.5	9.2	85	e.			3		10	e.				3	se.	overcast.
H. M. S. Sylvia, Montevideo, Uruguay	30.41	772.4	46.3	7.9	96	ne.			1		8	nw.						foggy.
H. M. S. Tenedos, N. 51° 28′ W. 56° 55′	29.87	758.7	53	11.7	93	calm			0		0							blue sky.
H. M. S. Triumph, Sandy Point, Patagonia	30.05	763.3	45	7.2	67	nnw.			2-6		5	nnw.						squally.
H. M. S. Tyne, N. 36° 30′, W. 48° 53′	30.22	767.6	79	26.1	93	ssw.			3-4		5	ssw.				4	ssw.	d. clouds.
H. M. S. Woodlark, N. 27° 10′ E. 56° 22′	29.53	750.0	94.5	34.7	52	ssw.			3-4		0							dense mist.
H. M. S. Zephyr, N. 35° 15′, E. 139° 45′	29.91	759.7	78	25.6	100	calm			0		3	sw.				1	sw.	d. clouds.
PORTUGUESE NAVAL.																		
Rio Lima, Cape Roxo, Senegambia	30.10	764.4	79.7	26.5	96	nnw.			3		10			4 h'r	4 h'r	4	nnw.	raining.
Tamega, Macao, China	29.74	755.3	82.4	28.0	85	e.			3		8							overcast.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.98	761.5	71	21.7	90	ne.	6	2.7			10		ne.	0.02	0.5			cloudy.
Navy Yard, Portsmouth, N. H	30.02	762.5	73	22.8	67	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.83	757.7	74.5	23.6	93	calm			0		2		n.	0	0			clear.
Adams, Mare Island, Cal						sw.			1		0			0	0	sm'h		clear.
Alaska, Callao, Peru	30.01	762.2	56	13.3	100	calm			0		2			0	0	sm'h		fair.
Alert, Mare Island, Cal*	29.88	758.9	60	15.6	76	calm			0		0			0	0	sm'h		clear.
Alliance, Boston, Mass	30.05	763.3	75	23.9	68	nw.			1		2			0	0			clear.
Ashuelot, Yokohama, Japan*	29.81	757.2	79	26.1	83	sw.			1		8		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.35	770.9	71	21.7	95	n.	3	1.3			8		calm	0.03	0.8	sm'h		fair.
Colorado, New York, N. Y.	30.10	764.5	77	25.0	82	w.	4	1.8			0			0	0			hazy.
Constellation, New York, N. Y*	30.10	764.5	78	25.6	82	nnw.			1		0							clear.
Enterprise, Provincetown, Mass *	30.03	762.7	71	21.7	85	w.			1		0					sm'h		clear.
Essex, Valparaiso, Chili	29.96	761.0	52	11.1	79	se.			1		8					sm'h	se.	clear.
Franklin, Norfolk, Va	30.15	765.8	73	22.8	85	ene.	2.1	0.9			8		w.	0	0			fair.
Galena, N. 36° 09′ E. 5° 15′	30.09	764.3	71	21.7	100	s.			1		2					sm'h		fair.
Independence, Mare Island, Cal	30.01	762.2	58	14.4	94	sw.			4		2			0	0			hazy.
Iroquois, Mare Island, Cal	30.07	763.8	57	13.9	87	sw.			3		0							clear.
Kearsage, Norfolk, Va	30.15	765.8	74	23.3	90	calm			0		10							cloudy.
Lackawanna, Callao, Peru*	29.97	761.2	58	14.4	94	se.			2		8		se.					cloudy.
Lancaster, N. 37° 59′, E. 15° 39′*	29.96	761.0	83	28.3	87	wnw.			1		0			0	0	sm'h		clear.
Marion, S. 34° 54′, W. 56° 13′	30.35	770.9	48	8.9	100	ne.			2		10		ne.	0	0	sm'h		foggy.
Michigan, Strait of Mackinaw, Michigan	29.85	758.2	69	20.6	80	sw.			3		2		sw.					fair.
Minnesota, Newport, R. I.	30.14	765.5	79	26.1	66	calm	0	0			0							clear.
Monocacy, Chefoo, China	29.84	757.9	80	26.7	82	s.			3		2		s.			sm'h		fair.
New Hampshire, Newport, R. I.	30.12	765.0	73	22.8	76	calm			0		0					sm'h		clear.
Nipsic, Valletta, Malta, Mediterranean*	29.97	761.2	79	26.1	78	ne.			3		0					sm'h		clear.
Onward, Callao, Peru†	30.13	765.3	57	13.9	100	sse			2		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.94	760.5	80	26.7	96	sw			2		10		sw.					cloudy.
Passaic, Washington, D. C.	30.15	765.8	72	22.2	95	w.			1		5							fair.
Pensacola, Panama, Panama*	29.82	757.4	78	25.6	91	wnw.	5	2.2			8			0	0	sm'h		cloudy.
Portsmouth, N. 40° 04′ E. 5° 26′*	30.03	762.7	78	25.6	82	sw.			1		2					sm'h	nne.	fair.
Powhatan, Pensacola, Florida	29.97	761.2	74	23.3	86	ne.			3		10		ne.					cloudy.
Quinnebaug, Alexandria, Egypt	29.89	759.2	82	27.8	79	nnw.			2		2		calm			sm'h		clear.
Ranger, Mare Island, Cal	29.97	761.2	62	16.7	66	sw.			3		0			0	0			clear.
Richmond, Yokohama, Japan*	29.83	757.7	80	26.7	91	sw.			4		5		sw.	0	0			fair.
Saratoga, N. 43° 32′, E. 7° 44′	29.93	760.2	77	25.0	86	sw.			2-3		2		sw.	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.37	771.4	75	23.9	77	calm			0		0			0	0			clear.
Swatara, Yokohama, Japan*	29.71	754.6	80	26.7	87	sse.			2		5		calm			sm'h		fair.
Tennessee, Provincetown, Mass	30.10	764.5	74	23.3	81	wnw.	2	0.9			0			0	0			clear.
Vandalia, Portsmouth, N. H*	30.00	762.0	73	22.8	81	nw.			1		0							clear.
Wabash, Boston, Mass	30.06	763.5	72	22.2	71	w.	2	0.9			0			0	0			clear.
Wachusetts, Fort Wrangle, Alaska†	30.20	767.1	49	9.4	93	sse			1		2		calm			sm'h		fair.
Wyoming, Port Royal, S. C*	30.02	762.5	75	23.9	90	nne.	8	3.6			8		se.	0.22	5.6			cloudy.
Yantic, Provincetown, Mass	30.06	763.5	71	21.7	85	w.			2		0							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, Glasgow, Scotland*	29.85	758.2	65	18.3		wsw.			2		6		sw.					cloudy.
S. S. Nova Scotian, Off Mine Head, Ireland	29.86	758.4	69	20.6		n.			2		2		nne.			sm'h		clear.
S. S. Scandinavian, N. 51° 44′, W. 32° 11′*	29.79	756.7	55	12.8		sw.			3		10		sw.	0	0	light	sw.	overcast.
S. S. Waldensian, N. 42° 50′ W. 59° 13′*	30.09	764.3	72	22.2		wsw.			2		0			0	0	light	wsw.	fine.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, N. 50° 45′, W 21° 49′*†	30.02	762.5				w.			2		6		ssw.	5 h'r	5 h'r	sli't	w.	cloudy.
S. S. Lord Gough, N. 41° 08′, W. 64° 06′	30.06	763.5	82	27.8		w.			3		0			0	0	sm'h	w.	fair.
AMSTERDAM LINE.																		
S. S. Jason, N. 42° 53′, W. 59° 42′	30.00	762.1	60.8	16.0		sw.			5	3 c				0	0	3	sw.	
ANCHOR LINE.																		
S. S. Alexandria, Leghorn, Italy	30.02	762.5	77.5	25.3		wsw.			3		3		w.	0	0			fair.
S. S. Ethiopia, N. 40° 56′, W. 67° 38′	30.07	763.8	64	17.8	94	wsw.			3		2		w.	0	0	sm'h		clear.
S. S. Galatia, N. 16° 24′, E. 60° 10′†	29.99	761.7	76.3	24.6		ssw.			6		7			0	0			
S. S. India, N 41° 41′, W. 51° 27′*	29.93	760.2	70	21.1	95	se.			1		2						sw.	fair.
S. S. Utopia, N. 41° 30′ W. 45° 52′†	30.28	769.1	72	22.2	90	sw.			2		10		sw.	8 h'r	8 h'r	mod.	sw.	overcast.
ATLAS LINE.																		
S. S. Ailsa, Jeremie, Hayti, W. I.†	30.09	764.3	80	26.7	86	w.			3		5?		w.	0	0	light	ne.	cloudy.?
S. S. Alpin, N. 32° 29′, W. 70° 38′	30.17	766.3				s.			1		2			4 h'r	4 h'r	mod.	s.	clear.
S. S. Alvo, Carthagena, U. S. C.	29.90	759.4							2		3			½ h'r	½ h'r			
S. S. Antillas, N. 32° —′, W. 73° 55′*†	30.30	769.6	84	28.9		calm			0							sm'h		fine.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Picton, N. S.†	29.83	757.7	76	24.4		calm			0		0			0	0			clear.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 27° 37′ W. 35° 22′	30.40	772.1	69	20.6	71	e.			2		2							blue sky.
S. S. Basil, N. 2° 40′. W. 42° 42′	30.07	763.8	81	27.2	87	sse.			4		1							blue sky.
S. Baroda, S. 25° 33′, E. 8° 04′	30.13	765.3	61.1	16.2	83	sw.			5		5							d. clouds.
S. S. City of Agra, S. 23° 14′, W. 33° 28′	30.35	770.9	69.6	20.9	93	ese.			5		8							d. clouds.
Bk. Commewyne, N. 31° 32′, W. 59° 30′	30.23	767.8	85.5	29.7	68	ne.			2		3							d. clouds.
S. S Gordon Castle, N. 42° 03′, W. 59° 19′	30.05	763.3	77	25.0	72	w.			3		0							blue sky.
S. S. Markland, S. 35° 14′, W. 83° 37′	30.16	766.1	53.2	11.8	95	sse.			6		7					5	sse.	raining.
May Hulse, N. 14° 40′, W. 26° 18′	30.06	763.5	79.7	26.5	78	ne.			2		9							gloomy.
S. Oamaru, S. 26° 05′, E. 5° 37′	30.19	766.8	63.5	17.5	78	sse.			5		4							d clouds.
S. S. Pole Star, N. 34° 33′, W. 40° 58′	30.37	771.4	81.5	27.5	87	se.			2		3							blue sky.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 35° 49′, W. 121° 39′.*†	29.89	759 2	55	12.8	93	nw.			7		2		nw.			h'vy	nw.	clear.
CROMWELL LINE.																		
S. S. Hudson, N. 40° 40′, W. 74° 00′†	30.19	766.8	76	24.4		sw.			4		0			0	0			clear.
CUNARD LINE.																		
S. S. Bothnia, N. 50° 09′, W. 22° 29′	30.11	764.8	62	16.7	94	sw.			4		10			4 h'r	4 h'r	mod.	nw.	overcast.
S. S. Gallia, N. 48° 34′, W. 28° 49′	29.96	761.0	65	18.3	83	sw.			5		8		sw.	0	0	sm'h		hazy.
S. S. Marathon, Off Ballycottin, Ireland	29.90	759.4	59	15.0		ne.			1		4		ne.	0	0	sm'h		fine.
S. S. Scythia, N 40° 58′, W. 64° 41′	30.09	764.3	71	21.7	90	wsw.			1		0			0	0	sm'h		clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 46° 20′, W. 35° 50′†	29.91	759.7	64.4	18 0		sw.			4		ck		sw.	0	0	sm'h	sw.	hazy.
GUION LINE.																		
S. S. Arizona, N. 51° 16′, W. 16° 16′	30.12	765.0	57	13.9		ne.			2		0			0	0	sm'h		blue sky.
S. S. Wisconsin, N. 41° 05′ W. 62° 45′	30.09	764.3	70	21.1	75	calm			0		0			0	0	sm'h		clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 44° 29′, W. 45° 13′†	29.98	761.5				w.			3		3		wnw.	3 h'r	3 h'r	sm'h	wsw.	
S. S. Cimbria, N. 49° 44′, W. 9° 06′	30.02	762.5	60	15.6		nnw.			4		1		nnw.	0	0	mod.	nw.	clear.
S. S. Gellert, N 43° 11′, W. 54° 42′	29.94	760.5	71	21.7		n.			5		10		w.	6 h'r	6 h'r	long	n.	raining.
S. S. Herder, N. 53° 20′, E. 9° 45′	29.91	759.8	74	23.3		ene.			1		8		s.	0	0	sm'h	w.	covered.
S. S. Silesia, N. 41° 49′, W. 57° 20′†	30.19	766.8	74.0	23.3	76	w.			4-5		4		w.	0	0	3	sw.	fair.
S. S. Westphalia, N. 50° 40′, W. 21° 38′	29.94	760.5	63	17.2	72	w.			3		2		w.	rain	rain	mod.	sw.	misty.
S. S. Wieland, N. 41° 18′, W. 66° 55′	30.12	765.0	63	17.2		sw.			3		0			0	0	2	sw.	clear.
INMAN LINE.																		
S. S. City of Berlin, N. 41° 30′ W. 53° —′	30.04	763.0				nnw.			2		1		nnw.	0	0	sm'h		fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 33° 49′ W. 49° 10′.*†	30.61	777.5	68	20.0		ne.			5		4		w.	0	0	sm'h		clear.
LEYLAND LINE.																		
S. S. Bulgarian, N. 49° 59′, W. 31° 52′*	30.05	763.3				wsw.			1		6		w.	0	0	light	w.	cloudy.
MALLORY LINE.																		
S. S. Colorado, New York, N. Y.†	30.11	764.8	76	24.4		sw.			2		0			0	0			clear.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Brooklyn, N. Y.*†	30.17	766.3	80	26.7	78	sw.			1		0			0	0			hazy
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 47° 08′ W 36° 38′ *†	29.56	750.8	64.4	18.0		s.			2		9		sw.	2 h'r	2 h'r	mod.	sw.	hazy.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 17° 35′ W. 55° 10′	29.64	752.8				ene.			4				ene.	0	0	mod.	ne.	fine.
S. S. Glenapp, Newport News, Va.†	30.23	767.8				e.			2		5		e.	0	0			fine.
MORGAN LINE.																		
S. S. New York, N. 35° 45′, W. 74° 21′ *†	30.19	766.8	75	23.9		e.			3		0			10 h'r	10 h'r		e.	clear.
NATIONAL LINE.																		
S. S. Canada, N. 41° 06′, W. 46° 11′†	29.99	761.7	67	19.4					3		10		s.; sw.	16 h'r	16 h'r	mod	w.	heavy rain.
S. S. Denmark, Sandy Hook, N. J	30.14	765.5	70	21.1		wsw.			1		0			0	0			hazy.
S. S. England, N. 40° 52′, W. 56° 23′	30.06	763.5				w.			2		0			0	0	sli't	w.	clear.
S. S. Erin, New York, N. Y.	30.08	764.0	79	26.1		sw.			4		0			0	0			
S. S. The Queen, N 45° 23′, W. 33° 53′	29.98	761.5	64	17.8		sw.			7		10		sw.	6 h'r	6 h'r	h'vy	sw.	
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, St. Jago, Cuba, W. I.†	30.11	764.8	80	26 7		calm			0					2 h'r	2 h'r			fine.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.†	30.13	765.3	77	25.0	86	calm			0		0			0	0			clear.
S. S. City of Washington, N. 23° 09′, W. 82° 22′ *†	30.25	768.3	85	29.4		se.			1		1		se.	0	0	sm'h		clear.
NORTH GERMAN LLOYD.																		
S. S. America, N. 39° 49′, W. 66° 42′*	30.15	765.8	77.0	25.0		w.			3		0			0	0	sm'h	w.	fair.
S. S. Gen. Werder, N. 40° 39′. W. 67° 30′	30.10	764.5				wsw.			2		0			0	0	sm'h		light haze.
S. S. Habsburg, N. 50° 36′, W. 0° 45′	29.87	758.7	57.2	14.0		ese.			3		10			11 h'r	11 h'r	sm'h		fair.
S. S. Hermann, N. 41° 37′, W. 53° 15′	30.05	763.3	73.4	23.0		wnw.			2		0			0	0	mod.	w.	fair.
S. S. Leipzig, N. 48° 26′, W. 23° 59′	30.17	766.3	66.0	18.9	84	wsw.			1		8		w.	3 h'r	3 h'r	mod.	wnw.	fair.
S. S. Neckar, N. 47° 15′, W. 31° 12′	30.01	762.2	61.0	16.1		sse.			3		10		sse.	2 h'r	2 h'r	sm'h	s.	misty.
S. S. Ohio, Bremerhaven, Germany	29.95	760.7				ssw.			3		5?		ssw.	0	0			cloudy.?
S. S. Rhein, N. 41° 50′, W. 46° 06′	30.00	762.0				wsw.			5		9		wsw.	hv'y	h'vy	r'gh	wsw.	drizzling.
S. S. Salier, Bremerhaven, Germany	29.92	760.0	57.2	14.0		sw			2		8		sw.	0	0			cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 46° 31′, W. 145° 32′*†	29.99	761 7	55	12.8	93	n.			2		10		w.	sh'rs	sh'rs	mod.	sw.	misty.
S. S. Belgic, N. 40° 51′, W. 136° 31′†	30.24	768.1	65	18.3	90	sw.			4		8		sw.			mod.	sw.	cloudy.
S. S. Gaelic, N. 43° 13′, W. 172° 34′†	30.21	767.3	58	14.4	93	ssw.			5		10		sw.			r'gh	sw.	showery.
S. S. Oceanic, N. 35° 36′, E. 141° 09′*	29.98	761.5	77	25.0	90	ssw.			4		8		sw.			2	ssw.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.18	766.0				sw.			1		0			0	0			smoky.
S. S. City of Columbus, New York, N. Y.†	30.12	765.0				w.			3		0			0	0			clear.
S. S. Seminole, Tybee Roads, Ga.†	30.12	765.0	82	27.8	83	e.			1		2		ese.	4 h'r	4 h'r			clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 43° 37′, W. 124° 30′.†	30.16	766.1	53	11.7	93	se.			3		10		calm	0	0	sm'h	nnw.	dense fog.
S. S. Oregon, Columbia River, Oregon†	30.20	767.1	52	11.1	86	calm			0									foggy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal*†	29.95	760.7	53	11.7	93	w.			1		10		w.					cloudy.
S. S. City of Chester Santa Barbara, Cal†	29.82	757.4	63	17.2	94	ese.			7		5?		se.					cloudy.?
S. S. Idaho, N. 47° 05′ W. 124° 30′†	30.21	767.3	54	12.2	86	se.			2		8					mod.	sw.	cloudy.
S. S. State of California, San Francisco, Cal†	29.99	761.7	52	11.1	100	wsw.			2		5		wsw.					fair.
S. S. Victoria, Nanaimo, Vancouver's Island†	30.02	762 5	53	11.7	86	calm			0		2			0	0			fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	29.71	754.6	46	7.8	92	wsw.			5		1			0	0			clear.
S. S. City of New York, S. 34° 03′, E. 166° 57′†	29.73	755.1	56	13.3	63	n.			7		10		w.	1 h'r	1 h'r	hv'y	w.	heavy rain.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.10	764.5	78	25.6	91	nw.			2		5		nw.	0	0	sm'h		fair.
S. S. City of Sydney, S. 6° 47′, W. 167° 50′†	29.84	757.9	81	27.2	74	ene.			4		5		ne.	0	0	mod.	ne.	fair.
S. S. City of Tokio, N. 34° 13′, E. 137° 33′†	30.08	764.0	80	26.7	87	sw.			3		2		ssw	0	0	light	sw.	fine
S. S. Colima, N. 22° 57′, W. 109° 31′†	29.90	759.4	80	26.7	96	calm			0		3		nw.	0	0	sm'h	s.	clear.
S. S. Costa Rica, Panama, Panama*†	29.94	760.5	76	24.4	91	nw.			3		7		ne.	0	0	sm'h		hazy.
S. S. Grenada, N. 23° 02′, W. 108° 42′†	29.84	757.9	81	27.2	87	ese.			1		2		ese.	0	0	sm'h	w.	hazy.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Bermuda, N. 12° 12′ W. 60° 40′†	30.07	763.8	84	28.9		ene.			2		2		ene.	light	light	g'tl	ene.	fine.
RED STAR LINE.																		
S. S. Belgenland, New York Harbor, N. Y†	30.27	768.8	80	26.7	87	sw.			4		9			0	0	sm'h		
S. S. Rhynland, N. 40° 36′, W. 57° 21′	30.20	767.1	76	24.4	73	wnw.			3		0			0	0	long	nw.	fair.
S. S. Switzerland, N. 47° 27′ W. 48° 31′†	30.11	764.8				e.			3		10		e.	0	0	mod	wnw.	misty.
S. S. Vaderland, N. 40° 19′, W. 48° 16′	29.89	759.2	71	21.7	100	wsw.			3		10		w.	5 h'r	5 h'r	cross		rainy.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 49° 42′, W. 10° 00′*	30.05	763.3	61.5	16.4	89	nw.			7		8		nw.	8 h'r	8 h'r			fair.
S. S. W. A Scholten, New York, N. Y.	29.98	761.5	73.7	23.2	95	calm			0		10			0	0			foggy.
STATE LINE.																		
S. S. State of Florida, N. 52° 11′, W. 22° 27′	29.99	761.7	57	13.9		wsw.			4		8		wsw.	2 h'r	2 h'r	mod.	w.	clear.
S. S. Indiana, Greenock, Scotland†	30.04	763.0	58	14.4		nw.			4		2		nw.	0	0			fair.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.18	766.6	72.5	22.5		ssw.			2		4		ssw.	0	0			clear.
WARREN LINE																		
S. S. Iowa. N. 41° 30′, W. 55° 44′*†	30.15	765.8	74	23.3		w.			2		1		w.	3 h'r	3 h'r	sli't	sw.	clear.
W. I. & PACIFIC S. S. CO.																		
S. S. Venezuela, N. 37° —′, W. 72° —′*	30.16	766.1	78	25.6	91	var.			1		1		e.			sm'h		clear.
WHITE CROSS LINE.																		
S. S. Planlyn, N. 48° 01′ W. 20° 09′	30.13	765.3							2		10		sw.	0	0	2	nnw.	overcast
WHITE STAR LINE.																		
S. S. Adriatic, N. 45° 29′, W. 40° 32′†	29.96	761.0	67	19.4	92	nw.			1		10		w.	14 h'r	14 h'r	mod	wsw.	foggy
S. S. Celtic, Liverpool, Eng†	29.98	761.5	65	18.3	73	wnw.			4		2		wnw.	sh'rs	sh'rs			showery.
S. S. Republic, N. 42° 26′, W. 55° 11′†	30.07	763.8	69	20.6	90	wsw			2		0			0	0	sm'h		blue sky
WILSON LINE.																		
S. S. Romano, Hull, Eng	29.80	756.9	66	18.9		se.			1		7		n.	0	0			cloudy.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa†	30.14	765.5	80	26.7		sw.					0			0	0			clear.
MISCELLANEOUS.																		
Bg. Abbie Clifford, N 37° 20′, W. 74° 21′*†	30.16	766.1	79	26.1		se.			1		5		sw.	0	0	sm'h	e.	fine.
Schr. Ajax, N. 26° 48′, W. 86° 48′†	30.14	765.5				calm			0		10		se.	4 h'r	4 h'r	sm'h	n	cloudy.
Bk. Alpha, N. 40° 20′, W. 58° 20′†	30.05	763.3	76	24.4		nne.			3		1		n.	1 h'r	1 h'r	sm'h		fair.
Schr Annie Lewis, N. 27° 02′, W. 94° 40′†	30.01	762.2	84	28.9		nne.			2		0			2 h'r	2 h'r	short	nne.	clear.
Bk. Anna Thormann, S. 39° 14′ E. 48° 20′	30.08	764.0	56.7	13.7	78	n.			6		7 k n		n.	rain	rain	mod	sw.	fair.
S. S. Antonio Lopez, N. 21° 01′ W 74° 22′†	30.09	764.3				calm			0		10			0	0	sm'h		thnd'rst'rm
Bk. Argonaut, N 47° 46′ W. 35° 54′*†	29.90	759.4	61.7	16.5		sse.			4		10			5 h'r	5 h'r	mod.	w.	covered.
S. S. Burswell, N 45° 49′, W. 1° 46′*†	29.88	758.9	73	22.8		sw.			6		10		sw.	14 h'r	14 h'r	high	nw.	squally.
Bk. Cato, Off Anhalt Id, Denmark*†	30.25	768.3				ssw.			4		2		ssw.	0	0	sm'h	ssw.	clear.
Bk. Celestina, S. 16° 20′, W. 26° 53′*†	30.17	766.3				ese.			1		2		e.	0	0	sm'h	se.	fine.
Schr. C. R. Flint, N. 24° 41′, W. 83° 05′†	30.12	765.0	74	23 3		ssw.			1		8		ssw.	0	0	sm'h		cloudy.
S. Cornelius, N 43° 39′, W. 31° 20′*†	30.45	773.4	74	23.3		wsw.			4		8		wsw.	0	0	mod.	wsw.	cloudy.
S. S. D. J. Foley, Port Maria, Jamaica, W. I†	29.96	761.0							3		6			0	0			fair.
Schr. Edith R. Seward, Turk Id, W. I*†	30.17	766.3	85	29.4		ese.			1		2		e.	0	0	long		clear.
S. E. J. Spicer, New York, N. Y.*	30.11	764.8	78	25.6		w.			1		0			0	0			clear.
Bk. E. L. Pettingill, N. 28° 12′, W. 143° 03′†	30.30	769.6				e.			4		8		ese.	sh'rs	sh'rs	mod.	se.	cloudy.
S Enoch Train, N. 44° 09′, W. 33° 11′*†	30.23	767.8				sw.			4		10		sw.	0	0	light	sw.	overcast.
Bk. Essex, S. 37° 02′ E. 36° 18′*†	29.71	754.6	63	17.2		nw.			7		2		nw.	2 h'r	2 h'r	high	cross	clear.
Bk. Franklin, N. 39° 40′. W. 49° 00′*†	30.40	772.1				w.			6		8			7 h'r	7 h'r	mod	w.	cloudy.
Bk Freya, Baltimore, Md.						ssw.			2		1		sw.	0	0			fine.
S. Grecian, Hong Kong, China*†	29.78	756.4	85	29.4		se.			6		9		ese.	sq'lls	sq'lls			
Bk Hattie G. McFarland, Philadelphia, Pa*†	30.18	766.6	76	24.4		calm			0		1			0	0			clear.
S. Hedwig, N. 44° 18′, E. 14° 08′	29.95	760.8	78.4	25.8	92	wnw.			2		2		wnw.	0	0	sm'h	nw.	
Bk. Heinrich & Tonio, N. 39° 41′, W. 70° 50′*†	30.32	770.1	75	23.9		sw.			4		0			0	0	mod	s.	clear.
Bk. Horace Scudder, N. 10° 50′, W. 62° 40′†	30.11	764.8	84	28.9		e.			2		2		se.	5 minutes				blue sky.
S. Ivy, S. 9° 29′, W. 128° 56′†	30.18	766.6	76	24.4		se.			5		10		se.	0	0	mod.	sw.	cloudy.
S. Ismir, S. 32° 44′. E. 98° 45′†	30.10	764.5				n.			4		9		n.	0	0	con.		fair.
Schr. James Slater, N 12° 49′, W. 55° 36′*†	30.35	770.9	85	29.4		ene.			3		2		e.	4 h'r	4 h'r	short	ne.	
Schr. Jennie N. Huddell, Hallowell, Maine†	30.17	766.3	75	23.9	90	w			1		0			0	0			clear.
Bk. Johanne, N. 45° 05′, W. 35° 10′*†	29.90	759.4	66	18.9		ssw.			7		8		w.	h'vy	hv'y	r'gh	sw.	squally.
Schr. John L. Thomas, N. 32° 30′, W. 77° 35′						s			1		0			0	0	light	se.	clear.
Bg. John Wesley, St. Jago, Cuba W. I†	29.92	760.0				ne.			2		1		ese.	0	0			clear.
Bk. Joseph A. Ropes, S. 20° 42′, W. 35° 37′*†	30.36	771.1	73	22.8	76	se.			4		4		se.	0	0	mod.	se.	fair.
Bkt. Josephine, N. 26° 17′ W. 76° 16′†	30.10	764.5	85	29.4	68	se.			5		0			0	0	mod	se.	fine.
Bkt. Kryolith, N 44° 58′ W. 59° 36′*†	30.04	763 0				calm			0							sm'h		clear.
Light House Tender, Laurel, Key West, Fla†	30.04	763.0	84	28.9		sse.			2		3		sse.	0	0			fair.
Bk. Liberia, N. 19° 17′, W. 51° 10′*	30.06	763.5	80	26.7	91	ne.			5		5		ene.	0	0			
S. S. Madrid, N. 47° 13′, W. 26° 30′*†	30.24	768.1	61	16.1		se.					8		sw.	7 h'r	7 h'r	short	var.	cloudy.
S. S. Nebo, N. 41° 36′, E. 4° 33′*†	29.99	761.7				ssw.			4		0			0	0			clear.
S. Orealla, N. 34° 10′, W. 45° 32′*	30.24	768.1	79	26.1		ssw			2		2		sse.	0	0	sm'h	ese.	clear.
S. Paramita, N. 11° 14′ W. 119° 32′†	29.80	756.9	82	27.8		var.			2		5?		ene.	2 h'r	2 h'r	long	ne.	cloudy?
Bk. Sunbeam, N. 37° 49′ W. 72° 37′†	30.28	769.1	79	26.1	78	calm			0		2			0	0	sm'h		clear.
S. S. Sunbeam, Odessa, Russia	29.82	757.4	82	27.8	67	ese.			2		6		e.					threatening
S. Sovereign of the Sea, S. 20° 07′, W. 37° 48′*†	30.22	767.6	75	23.9	90	se.			3		4		se.	0	0	long	se.	clear.
Bg. Teneriffe, Sagua la Grande, Cuba, W. I.	30.05	763.3				e.			2									
Bk. Truro, N. 46° 16′, W. 52° 30′*†	29.97	761.2				nne.			3		8		nne.	3 h'r	3 h'r	sm'h		foggy.
U.S.F.C.S.S. Fish Hawk, Wood's Hole, Mass†	30.27	768.8	73	22.8	90	sw.			2		0			0	0			clear.
Schr Viola Reppard, Baltimore, Md†	30.03	762.7	79.5	26.4		nnw.			2		2			0	0			clear.
Bk. Wm. Wilcox, Buenos Ayres, S. A*†	30.46	773.6	61	16.1		ne.			3		10		ne.	0	0			cloudy.

International Chart I. July 25, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 26, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.06	763.4	81.1	27.3	73	s.			5		1			0	0	very fair	Bouvier.
Algiers			30.05	763.3	81.0	27.2	57	n.			1		0			0	0	clear	Nicolas.
La Calle			30.06	763.4	85.6	29.8	73	ene.			3		0			0	0	clear	Fonfrède.
Tunis			30.06	763.5															Jacques.
Saida			30.11	764.9	97.2	36.2	31	e.			1		3			0	0	pretty fair	Perés.
Tebessa			30.11	764.8	82.4	28.0	33	sw.			1		0			0	0	clear	Derché.
Geriville					102.2	39.0	1	nw.			1		3			0	0	pretty fair	Lonchamp.
Laghouat			30.14	765.6	102.9	39.4	36	w.			1		0			0	0	clear	Abraham.
Biskra			30.13	765.3	101.1	38.4	22	se.			1		2			0	0	fair	Malau.
Australian.																			
Melbourne, Victoria	29.86	758.4	29.95	760.7	38.5	3.6	95	w.	14	6.3			10			0.64	16.3	squally	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.32	744.8	29.84	757.9	85.5	29.7	42	sw.			3		1			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.15	740.5	29.89	759.1	76.6	24.8	60	w.	7.4	3.3			4			0.008	0.2		Dr. Wierzbiski.
Eperies	28.97	735.9	29.79	756.7	85.6	29.8	48	calm			0	0	7 s			0.047	1.2		Julius Mikolik.
Gratz	28.70	729.0	29.91	759.6	71.6	22.0	83	se.			2		9			0	0		Andreas Rospini.
Hermannstadt	28.50	723.8	29.82	757.4	88.9	31.6	50	nw.			1		2			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.71	729.2	30.03	762.7	62.4	16.9	92	calm			0		10			0.240	6.1	raining	The Staff.
Lemberg	28.93	734.9	29.85	758.2	85.8	29.9	47	s.			1		4			0.055	1.4		Dr. T. Stanecki.
Pola	29.86	758.4	29.97	761.1	85.1	29.5	46	sw.			2		2			0	0		I. R. Hydrographic Office.
Szathmar	29.38	746.3	29.82	757.4	88.9	31.6	46	w.			2		7			0.012	0.3		Joseph Midlinszky, S. J.
Szegedin	29.55	750.6	29.81	757.2	84.6	29.2	56	se.			1		5			0	0		Karl Stancel.
Trieste	29.86	758.4	29.96	761.0	85.6	29.8	50	sw.			1		3			0	0		Royal Academy.
Vienna	29.28	743.6	29.97	761.3	70.3	21.3	61	w.			2		10			0.126	3.2		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.22	767.6	30.31	769.9	58.4	14.7	64	nnw.	10	4.5			6			0	0	d. clouds	W. Boswell
Armagh, Observatory	30.15	765.8	30.38	771.6	60.5	15.8	66	sw.	1	0.4			7					d. clouds	S. Gall.
Bidston, Liverpool Obs'y					62.3	16.8	75	wnw.	14	6.3			1					blue sky	John Hartnup.
Bolton, Sharples	29.79	756.7	30.32	770.1	59.2	15.1	07	nw.	10	4.5			8					overcast	Thomas Mackereth, Iton.
Bradford, Yorkshire	29.92	760.0	30.31	769.9	61.0	16.1	82	w.			2		8			0.05	1.3	d. clouds	McLandsborough & Pres.
Bridgetown, Barbadoes	30.04	763.0	30.07	763.8	86.0	30.0	68	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			30.29	769.4	69.0	20.6	58	n.			1.0		5					d. clouds	John McLaren.
Chatham, School M. E.	30.16	766.1	30.28	769.1	64.2	17.9	63	ne.			1		7					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	30.17	766.3	30.40	772.1	62.3	16 8	59	nnw.			2		2					d. clouds	The Staff.
Fort Napier, Natal	27.83	706.9	30.05	763.3	65.2	18.4	38	ne.			1		2					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.74	755.4	29.97	761.2	83.0	28.3	78	nw.			5		6					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.08	764.0	30.13	765.3	79.4	26.3	73	e.			2		7					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	30.12	765.0	30.32	770.1	61.1	16.2	44	nnw.			2		6					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.12	765.0	30.29	769.4	67.1	19.5	50	n.			2		5					d. clouds	The Staff.
Guernsey	30.09	764.3	30.38	771.6	64.0	17.8	78	nw.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.28	769.1	30.31	769.9	64.2	17.9	52	n.	12	5.4			5					d. clouds	The Staff.
Leicester, Museum	30.05	763.3	30.30	769.6	66.0	18.9	47	n.			2		4					d. clouds	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.01	762.2	82.4	28.0	74	n.			1		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.18	766.6	30.22	767.6	85.2	29.6	68	se.			2		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.81	757.2	30.33	770.4	64.5	18.1	48	n.			1		5					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	30.09	764.3	30.32	770.1	62.9	17.2	66	nnw.			2		7					d. clouds	The Staff.
Plymouth	30.29	769.4	30.36	771.1	68.7	20.4	66	nw.			1		3					d. clouds	John Merrifield.
Sandwick Manse, Orkneys																			Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.78	756.4	29.84	757.9	87.4	30.8	62	s.			1		0					misty	W. H. Lyne.
Sheffield	30.05	763.3	30.32	770.1	64.9	18.3	50	ne.			1		1			Inap.	Inap.	blue sky	W. F. Cooper.
Silloth Rectory	30.29	769.4	30.32	770.1	64.8	18.2	60	w.			1		6			0.020	0.5	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.35	770.9	57.6	14.2	79	nw.	6	2.7			10					raining	Rev. S. J. Perry.
Stratfield Turgiss	30.10	764.5	30.32	770.1	65.3	18.5	66	ne.			2		3					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.40	772.1	30.41	772.4	69	20.6	65	nw.			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.36	771.1	30.39	771.9	62.4	16.9	66	sse.	21	9.4			4					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.84	757.9	29.88	758.9	72	22.2	71	w.	5	2.2		2 c	5 s	calm	calm	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.84	757.9	29.90	759.4	71	21.7	73	sw.	6	2.7		4 ck	0	sw.		0.01	0.3	fair	G. A. Blair.
Father Point, Quebec*	29.87	758.7	29.89	759.2	58	14.4	86	w.	25	11.2		8 k	0	w.		0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.00	736.6	29.80	750.9	65	18.3	97	sw.	4	1.8			10 k		sw.	0.110	2.8	cloudy	James Stewart.
Halifax, N. S*	29.82	757.4	29.95	760.7	71	21.7	76	w.	4	1.8		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.71	754.6	30.03	762.7	70	21.1	84	sw.	7	3.1		0	0			0	0	hazy	A. P. Knight, M. A.
Montreal, Quebec*	29.78	756.4	29.98	761.5	71	21.7	76	w.	12	5.4		2 ck	0	w.		0.29	7.4	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.34	745.2	30.00	762.0	70	21.1	78	s.	5	2.2		2 cs	hz.	s.		0.26	6.6	fair	Rev. R. Mosley.
Port Dover, Ontario	29.42	747.3	30.09	764.3	70	21.1	95	sw.	3	1.3		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.45	748.0	30.07	763.8	67	19.4	93	sw.	2	0.9		2 ck	hz	w.		0	0	hazy	M. Payne.
Quebec, Quebec*	29.66	753.4	29.97	761.2	67	19.4	87	w.			1		8 k		w.	0.16	4.1	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.53	750.0	29.98	761.5	64	17.8	93	calm	0	0			10 ks		w.	0.07	1.8	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.32	744.7	30.01	762.2	71	21.7	94	s.	2	0.9		hz.	hz.			0	0	clear	
St. Andrews, N. B	29.88	758.9	29.93	760.2	68	20.0	91	wnw.	1	0.4		5 k	5 ks	nw.		0	0	cloudy	
Sydney, C. B*	29.80	756.9	29.86	758.4	73	22.8	73	sw.	10	4.5		0	0			0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.71	754.6	30.08	764.0	69	20.6	73	w.	7	3.1		8 ck	2 s	w.	w.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.92	760.0	29.98	761.5	64	17.8	87	sw.	1	0.4		0	hz.			0	0	clear	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.70	729.0	30.10	764.5	68.0	20.0	75	w.			2	10 k	0	w.		0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.99?	761.7?	30.23?	767.8?	66?	18.9?	79	sw.	3	1.3		0	0			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.38	771.6	30.41	772.4	59.0	15.0	71	se.	13.0	5.8		0	5 k			0.210	5.3		John Duthie.
Cape Town, C. G. H. Obs'y	30.24	768.1	30.28	769.1	62.0	16.7	62	sse.	30	13.4		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.84	758.0	29.87	758.6	81.1	27.3	92	se.	9.4	4.2		1 ck	0			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.93	760.1	29.97	761.3	65.8	18.8	72	ne.	7	3			7						Oversergent Fischer.
Finde	30.01	762.3	30.03	762.8	66.2	19.0	64	wnw.			6		6						Overloerer Lauridsen
Godthaab, Greenland	29.52	749.7	29.56	750.8	43.7	6.5	86	nw.			2		10			0	0	foggy	S. Kleinschmidt.
Stykkisholm, Iceland	29.63	752.7	29.68	753.8	54.3	12.4	90	s.			6		8					raining	A. O. Thorlacius.
Thorshavn	30.19	766.9	30.23	767.8	56.8	13.8	70	sw.	9	4			7						Overloerer Bergh.
Vestervig	29.97	761.3	30.06	763.6	62.1	16.7	69	nnw.			4		1						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.76	756.0	30.39	772.0	75.2	24	50	nnw.			2		kn;n			0	0		M. Labroue, Director.
Alençon, Normal School	29.78	756.5	30.34	770.5	64.4	18	72	n.			1		k		s.	0.47	12.		M. Nicot, Director.
Arras, Engineer School	29.98	761.5	30.24	768.0	62.6	17.0	68	nnw.			3		kn		nnw.	0.421	10.7		M. Fénéon, Command't.
Avignon, Normal School	30.12	765.1	30.20	767.0	75.2	24	54	n.			3		2		n.	0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.72	755.0	30.28	769.1	59.5	15.3	75	ene.			2		10		nw.	0.512	13.0	covered	M. Saillard, Director.
Beauvais, Normal School	30.02	762.4	30.28	769.1	63.9	17.7	59	nw.			3		5		nw.	0.921	23.4	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.35	745.4	30.23	767.9	60.4	15.8	76	ssw.			1		10 n		sw.	0.374	9.5	covered	M. Gobin, Director.
Bordeaux, Observatory	30.13	765.2	30.39	771.8	68.4	20.2	46	nnw.			1		8			0.024	0.6	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.79	756.7	30.34	770.6	60.8	16	69	nw.			1		k		nw.	0.083	2.1		M. Malet, Director.
Brest, Naval Observatory	30.19	766.8	30.43	773.0	68.7	20.4	62	n.			2		3 k		n.	0.079	2.0		M. de Kermaree, Dir.
Caen, Normal School	30.38	771.6	30.40	773.6	62.8	17.1	78	nw.			1		5		nw.	0.12	3.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.86	758.5	30.18	766.5	57.7	14.3	94	w.			4		10			0.472	12.0	covered	M. Jadot, Director.
Charleville, Normal School	29.63	752.6	30.14	765.5	61.9	16.6	66	nw.			3					0.98	25.		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.99	736.3	30.32	770.2	65.5	18.6	59	nw.			1		8		wnw.	0.020	0.5	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.35	745.0	30.32	770.0	64.2	17.9	67	nw.			3		8		nnw.	0.024	0.6		M. de Villemontée, Dir.
Commercy, Normal School	29.33	745.0	30.19	766.7	62.8	17.1	76	sw.			1		10 kn		sw.	1.386	35.2	covered	Dr. Coulet, Director.
Gap, Normal School	27.60	701.1	30.06	763.4	72.5	22.5	21	nw.			1	0	1 k			0	0		M. Jeanglrard, Director.
Grésasque, du Rhone	29.03	737.4	30.13	765.4	73.8	23.2	44	nw.			8		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.21	741.8	29.90	760.9	65.1	18.4	56	wnw.			3		kn		ne.	0	0		M. Ablard, Director.
Guéret, Normal School	28.77	730.7	30.35	770.8	62.6	17	74	ne.			1		10		sw.	0	0	covered	M. Rivoire, Director.
Lamballe, Normal School	30.11	764.7	30.37	771.5	67.3	19.6	54	n.			1		2		n.	0.28	7.	slightly cl'dy	M. Olliffrault, Director.
Lescar, Normal School	29.85	758.2	30.41	772.4	68.0	20.0	58	w.			1		2			0.04	1.	slightly cld'y	M. Chauvin, Director.
Lorient, Naval Observatory	30.30	769.7	30.41	772.3	67.3	19.6	88	wsw.			1		5	w.	n.	0.039	1.0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.28	743.7	30.34	770.7	61.9	16.6	64	nw.			2		8		n.	0	0	very cloudy	M. André, Director.
Mans, Normal School	30.05	763.0	30.37	771.4	64.6	18.1	52	ne.			1		2		nnw.	0.386	9.8	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.87	758.6	30.13	765.3	76.1	24.5	30	nw.			4		0			0	0		M. Stephan, Director.
Montlouis	25.10	637.6	29.95	760.6	56.8	13.8	51	nw.	18.6	8.3			6	w.		0	0		M. Cuve, for Dr. Fines.
Montpellier, Normal School	30.09	764.2	30.22	767.5	80.2	20.8	37	nnw.			3		1	nw.		0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.38	746.3	30.10	766.0	59.7	15.4	75	ssw.			2		kn		nw.	0.374	9.5		M. Hasse, Director
Nantes. Observatory	30.25	768.4	30.41	772.5	68.7	20.4	50	nw.			1-2	0	8k;kn		nnw.	0.217	5.5		M. Larocque, Director.
Perpignan, Observatory	30.19	766.7	30.29	769.4	73.9	23.3	35	nw.	20.6	9.2			4		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.52	546.6			47.5	8.6		e.			1		1		e.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.19	741.4	30.23	767.8	69.8	21	40	n.			4		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.43	646.0			43.0	6.1	91	nw.			4		5		w.	0.256	6.5	½ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.46	773.7	30.49	774.5	69.8	21.0	84	w.			1		2		n.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.04	762.9	30.25	768.3	72.0	22.2	56	wnw.			1		5		se.	0.126	3.2	cloudy	M. Moullot, Director.
Rodez, Normal School	28.09	713.6	30.22	767.7	61.9	16.6	73	w.			2		8		w.	0	0	very cloudy	M. Seger, Director.
Rouen, Normal School	30.26	768.5	30.30	769.7	66.2	19	67	nw.			3		5	ne.		0.768	19.5	cloudy	M. Brotier.
Saint Maur, Observatory	30.10	764.6	30.27	768.8	66.7	19.3	56	w.			3		6		nw.	0.291	7.4		M. Renou, Director.
Toulouse, Observatory	29.70	754.4	30.43	773.0	69.1	20.6	51	nnw.			1		5		nw.	0	0	cloudy	M. Baillaud, Director.
Tours	30.16	766.0	30.34	770.5	68.7	20.4	50	wnw.			1		2	wnw.	wnw.	0.130	3.3	slightly cl'dy.	M. de Tastes.
Versailles, Observatory	29.79	756.6	30.28	769.1	66.2	19.0	54	n.			2					0.157	4.0		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.98	761.6	30.28	769.0	67.5	19.7	59	wnw.			2		6		nnw.	0.390	9.9		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.57	725.6	29.99	761.8	59.9	15.5	62	w.			10		7	w.		0.118	3.0		Prof. Jnedt.
Bamberg	29.12	739.6	29.97	761.3	60.1	15.6	80	sw.			6	0	8 n		w.	0.157	4.0	heavy rain	Prof. Dr. Hoh.
Berlin	29.80	757.0	29.98	761.4	73.0	22.8	55	calm			0		9			0.007	1.7		Prof. Dr. Arndt.
Breslau	29.41	747.0	29.94	760.4	73.6	23.1	63	ese.			2		7			0.109	4.3		Royal University Obs'y.
Carlsruhe	29.62	752.3	30.00	703.4	57.6	14.2	88	sw.			5		10	sw.		1.406	35.7	raining	Albert Senz.
Cassel	29.14	740.1	29.85	758.2	70.3	21.3	57	ne.			4		8	nw.		0.909	23.1		Dr. H. Möhl.
Frankfort-on-the-Main	29.53	750.1	29.89	759.2	63.3	17.4	79	sw.			2		10			0.079	2.0		Physical Society.
Friedrichshafen	28.74	729.9	30.15	795.8	63.7	17.6	66	sw.			6		5	w.		0.748	19.0		Wilhelm, Chief Tel.
Hamburg	29.86	758.5	29.99	760.9	64.9	18.3	71	ne.			3		10			0	0	hazy	E. Preller.
Kiel	29.97	761.2	29.98	761.6	64.0	17.8	69	nnw.			2		10			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.47	748.4	29.87	758.8	70.0	21.1	67	sse.			2		8	sw.		0.012	0.3	thunder	H. Leppig, Asst.
Magdeburg	29.65	753.2	29.84	757.8	71.1	21.7	69	ene.			2	0	8 ks		se.	0.465	11.8		Dr. Assmann.
Memel	29.95	760.0	29.99	761.8	64.9	18.3	79	n.			2		10 s					raining	Isermann
Munich	28.26	717.7	30.12	765.1	64.0	18.1	54	w.			6		9	w.		0.134	3.4		Dr. C. Lang.
Neufahrwasser	29.96	760.9	29.97	761.3	68.4	20.2	65	ne.			1		8			0.028	0.7		A. Lothes.
Neustadt, Palatinate	29.47	748.4	29.99	761.8	61.3	16.3	70	w.			7		9	w.		1.142	29.0		Dicknether.
Stuttgart	29.11	739.3	29.99	761.7	61.7	16.5	68	w.			8		10			0.520	13.2		Prof. Dr. Schoder.
Wustrow	29.95	700.7	29.97	761.3	69.1	20.6	67	e.			2	0	5 k			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.52	749.8			97.0	36.1		e.			1.0		3			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.63	752.6	29.68	753.8	82.9	28.3	71	wsw.	23.0	10.3			9		w.	0	0	gloomy	
Deesa	29.15	740.3	29.92	752.2	84.1	28.9	65	ssw.	11.6	5.2			6	ssw.	sw.	0	0	d. clouds	
Bombay	29.75	755.5	29.78	750.5	81.7	27.6	81	wsw.	20.0	8.9			9	w.	w.	0.11	2.8	d. clouds	
Poona, Yarrowda	27.92	709.0	29.78	750.3	75.9	24.4	74	w.	21.0	9.4			6		w.	0.17	4.3	showery	
Trichinopoly	29.50	749.3	29.78	750.3	92.5	33.6	39	wnw.	6.0	2.7			10			0	0	overcast	
Bellary	28.24	717.3	29.08	754.0	80.2	30.1	49	nw.					9	sw.		0	0	gloomy	
Belgaum	27.28	692.8	29.83	757.6	72.5	22.5	82	wsw.	9.0	4.0			7	sw.	sw.	0.64	1.0	showery	
Lahore	28.81	731.8	29.55	750.6	78.9	26.1	91	sw.	1.0	0.4			10		s.	0.27	6.9	raining	
Roorkee	28.2	720.9	29.50	749.2	86.8	30.4	75	ne.	1.7	0.8			7			0.54	13.7		
Agra	28.93	734.8	29.48	748.9	84.8	29.3	81	e.	5.9	2.6			8		e.	0.12	3.0	d. clouds	
Nagpur	28.58	726.0	29.01	752.1	85.0	29.4	63	wnw.	3.1	1.4			7		w.	0	0	d. clouds	
Jubbulpore	28.28	718.2	29.62	752.5	79.2	26.2	69	w.	4.8	2.2			10			0.90	22.9	overcast	
Lucknow	29.18	741.2	29.55	750.6	82.1	27.8	77	calm	1.7	0.8			10	wsw.		0.19	4.8	overcast	
Allahabad	29.26	743.2	29.57	751.0	83.8	28.8	83	nne.	1.4	0.6			9			0	0	d. clouds	
Patna	29.40	746.8	29.59	751.5	84.6	29.2	85	ene.	3.4	1.5			10	ene.	ene.	0	0	overcast	
Hazaribagh	27.59	700.7	29.58	751.4	77.6	25.3	88	wnw.	8.0	3.6			10		w.	0.05	1.3	thund'r storm	
Cuttack	29.49	749.1	29.57	751.1	85.9	29.9	73	w.	1.3	0.6			6			0	0	d. clouds	
Calcutta, Alipore	29.52	749.7	29.54	750.3	81.1	27.3	98	calm	0	0			10		e.	0.18	4.6	overcast	
Dhubri	29.40	746.7	29.51	749.6	87.9	31.1	73	calm	1.8	0.8			1			0	0	d. clouds	
Chittagong	29.48	748.8	29.57	751.1	82.2	27.9	84	ssw.	4.1	1.8			5			0	0	d. clouds	
Sibsagar	29.17	740.9	29.50	749.2	91.1	32.8	70	calm	1.3	0.6			4			0	0	d. clouds	
Jeypore	28.12	714.1	29.55	750.7	79.4	24.7	95	nw.	7.0	3.1			10		nw.	2.94	74.7	drizzling	
Zanzibar, Africa	30.04	763.0			78.5	25.8	65	sw.	5.6	2.5			8		s.	0	0	gloomy	
ITALIAN.																			
Udine	29.52	749.8	29.91	759.7	83.5	28.6	53	s.	6.9	3.1			5			0.331	8.4		Prof. Giovanni Cloelig.
Milan	29.43	747.5	29.92	760.0	83.1	28.4	46	ssw.	7.4	3.3			4	wsw.		0	0		Prof. Schiaparelli.
Padua	29.75	755.7	29.86	758.4	84.4	29.1	43	wsw.	11.2	5.0			3	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.04	737.7	29.91	759.7	82.6	28.1	32	e.	9.8	4.4			2			0	0		Prof. P. F. Denza.
Genoa	29.79	756.7	29.98	761.4	76.6	24.8	62	se.	13.6	6.1			0			0	0		Prof. G. M. Garibaldi.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Mondovi	28.08	713.3	29.92	759.9	77.9	25.5	68	n.			6		1			0	0		Prof. D. C. Bruno.
Pesaro	29.92	759.9	29.97	761.1	89.4	31.9	33	sw.	9.4	4.2			3			0	0		Prof. Luigi Guidi.
Florence	29.75	755.6	29.98	761.6	84.6	29.2	42	sw.			2		4			0	0		Prof. Costantino Pitter.
Leghorn	29.89	759.1	29.97	761.2	81.0	27.2	59	w.	4.9	2.2			5	w.		0	0		Prof. P. Monte.
Rome	29.88	759.0	30.05	763.3	86.0	30.0	46	sw.	3.1	1.4			1			0	0		Prof. P. S. Ferrari.
Lecce	29.73	755.1	29.97	761.2	88.7	31.5	36	nne.	11.2	5.0			0			0	0		Prof. C. de Giorgi.
Cosenza	29.14	740.2	29.99	761.7	87.8	31.0	73	w.	3.8	1.7			0			0	0		Prof. D. Conti.
Cagliari	29.84	757.9	30.02	762.6	93.4	34.1	21	wnw.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.84	757.8	30.08	763.9	84.6	29.2	42	ne.	5.6	2.5			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.95	760.6	29.99	761.7	83.5	28.6	39	nne.	9.8	4.4			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.53	750.0	30.02	762.6	84.2	29.0	49	wsw.	0.7	0.3			1	sw.		0	0		Prof. T. Brioschi.
Stelvio	22.27	565.6			38.3	3.5	31	e.			2		10			0.079	2.0	misty	Prof. P. F. Denza.
Valdobbia	22.33	567.2			51.4	10.8	54	n.			2		3			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.69	754.1	29.70	754.4	71.0	21.7	90	calm	0	0			10			0	0	overcast	
Hiroshima, I. M. Obs'y					81.8	27.7	88	w.	0.6	0.3		0	0			0	0	clear	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.75	755.6	29.92	759.9	79.6	26.4	80	nw.	3.0	1.3		0	5 ck;s			0	0	fair	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.77	756.3	29.97	761.2	80.3	26.8	92	ssw.	2.1	0.9		2 ck	6 ks		sw.	0.020	0.5	cloudy	S. Takehayashi.
Nemuro	29.60	751.8	29.66	753.3	68.8	20.4	93	calm	0	0		0	2			0	0	clear	
Niigata	29.83	757.7	29.87	758.7	77.6	25.3	89	sw.	9.3	4.2		4 ck	6 ck;s	sw.	sw.	0	0	cloudy	M. Morita.
Nobiru	29.76	755.9	29.78	756.3	79.0	26.1	78	nw.	6.0	2.7		2ck;cs	1 s			0	0	fair	H. Midzushina.
Osaka	29.88	758.9	29.89	759.2	83.0	28.3	81	nnw.	2.7	1.2			10ks;ck			0	0	cloudy	
Sapporo					71.0	21.7	91	calm	0	0			0			0	0	clear	
Tokei Obs'y, Yeddo	29.77	756.1	29.84	757.9	77.8	25.4	79	sw.	2.5	1.1		0	0			0	0	clear	The Staff.
Wakayama	29.86	758.4	29.91	759.7	81.0	27.2	85	calm	0	0			9			0	0	cloudy	Y. Kuwamrea.
MAURITIUS.																			
Mauritius Observatory	30.09	764.3	30.28	769.1	70.8	21.6	63	ese.	21.5	9.6		0	6 k;n		ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.5	29.94	760.5	60.3	15.7	91	n.					10 n			0.138	3.5	rainy	Prof. Vicente Fernandez.
Leon	24.37	619.0	30.01	762.2	60.8	16.0	73	ese.			1	4 c	5 ku	ne.		0.288	7.3	cloudy	Prof. M. Leal.
Mazatlan	29.69	754.1	29.95	760.7	76.5	24.7	95	e.	11.0	4.9		1 cs	5 n		se.	0.079	2.0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.10	586.6	30.12	765.1	53.6	12.0	82	nw.	0.7	0.3		4 ck	5 kn	sw.		0.028	0.7	cloudy	The Staff.
Morelia	24.31	617.5	30.36	771.2	59.7	15.4	79	se.			2	3	4	s.	s.	0.906	23.0	cloudy	M. Tena, M. D.
Orizaba	26.06	661.8	30.00	762.0	65.3	18.5	67	s.	1.7	0.8		9	0	sw.		0.481	12.2		Prof. M. M. Cházaro.
Pabellon, Aguascallentes	23.97	608.8	29.88	759.0	63.5	17.5	94	calm				0	9 ks		ssw.	0.140	3.6	cloudy	M. V. de Leon, M. E
Puebla, Catholic Institute	23.49	596.7	30.27	768.7	54.0	12.2	89	calm	0	0			10		s.	1.993	50.6	covered	Prof. P. Spina.
San Luis Potosi	24.23	615.5	30.19	766.7	61.6	16.4	79	ese.					10		e.	0	0	covered	G. Barroeta, M. D.
Zacatecas	22.59	573.7	30.14?	765.0?	61.8	16.6	87	w.	4.5	2.0		4 cs	2 k		e.	0	0	½ cloudy	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.20	767.0	30.20	767.0	63.1	17.3		nnw.			5					0.378	9.6		
Groningen	29.99	761.8	30.05	763.2	61.9	16.6		ne.			3					0.197	5.0		
Helder	30.10	764.6	30.10	764.6	60.6	15.9		nnw.			5					0.067	1.7		
Hellevoetsluis	30.15	765.7	30.15	765.7	62.8	17.1	78	nnw.			3					0.252	6.4		
Utrecht	30.07	763.7	30.11	764.9	60.8	16.0	84	nnw.			3		8			0.783	19.9	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.04	762.9	30.10	764.5	58.6	14.8	47	nnw.	18	8			2			0	0		
Brono	29.91	759.8	29.95	760.8	55.4	13.0	70	w.	18	8			5			0.370	9.4		
Christiania	29.81	757.1	29.95	760.7	69.1	20.6	51	ssw.	9	4			4			0	0		
Gjæsvær	29.77	756.1	29.79	756.7	59.5	15.3		sw.			4		7						
Lodingen	29.77	756.1	29.82	757.3	58.1	14.5	77	wsw.			7		2			0.028	0.7		
PORTUGUESE.																			
Angra, Azores					72.7	22.6	81	ssw.	4.3	1.9			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.14	740.1	30.08	764.0	89.6	32.0	24	nnw.	3.1	1.4			2			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.05	763.3	30.14	765.5	74.5	23.6	73	sw.	2.5	1.1			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.85	758.1	30.19	766.9	80.1	26.7	32	n.	21.0	9.4			6			0	0		The Staff.
Ponta Delgada, Azores	30.34	770.5	30.40	772.2	81.3	27.4	66	calm	0	0			4			0	0		
Saint Paul de Loando	29.87	758.7	30.08	763.9	71.2	21.8	84	wnw.	0.7	0.3			1	sse.		0	0		
Serra da Estrella	25.56	649.3	30.18	766.6	64.0	17.8	41	e.	15.0	6.7			0			0	0		
RUSSIAN.																			
Akmollinski	28.78	731.1	29.83	757.7	63.1	17.3	51	nne.	20	9		0	8 k			0.008	0.2		Major K. Lasarew.
Archangel	29.89	759.3	29.91	759.8	75.7	24.3	91	se.	9	4		0	6 ks			0	0		Capt. Sseliwerstow.
Astrakhan	30.04	762.9	29.95	760.8	95.2	35.1	23	se.	11	5		cs	5 s			0	0	light clouds	Capt. Wisganow.
Barnaul	29.06	738.0	29.54	750.2	61.7	16.5	79	e.	9	4			10			0.319	8.1		Meteorological Obs'y.
Dorpat	29.71	754.5	29.94	760.4	73.4	23.0	79	w.	2	1			10 ks			0.957	24.3		Observatory.
Ekaterinburg	29.32	744.6	30.25	768.4	71.6	22.0	33	ne.	2	1		0	1 s			0	0		Meteorological Obs'y.
Irkutsk	28.27	718.0	29.86	758.5	62.2	16.8	63	calm	0	0		0	1 s;ks			0	0		
Kasan	29.82	757.4	30.08	763.9	78.4	25.8	63	nne.	13	6			10			0.094	2.4	raining	Observatory.
Kertch	29.74	755.4	29.76	755.9	81.3	27.4	83	sse.	20	9		0	3 ks			0	0		Lagorio & Sastyrex.
Kieff	29.17	740.9	29.75	755.7	89.8	32.1	36	nne.	2	1		2ck;cs	0			0	0		Observatory.
Lugan	29.61	752.2	29.86	757.0	96.4	35.8	16	ese.	34	15			8			0	0		Meteorological Obs'y.
Moscow	29.50	749.2	29.93	760.3	84.9	29.4	61	calm	0	0			7 ks						Meteorological Obs'y.
Nikolaiev	29.72	755.0	29.80	756.8	98.1	36.7	35	nnw.	4	2		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.45	747.9	29.59	751.5	84.2	29.0	62	sw.	4	2		0	2 ks			0	0		Physical Observatory.
St. Petersburg	29.86	758.4	29.87	758.8	75.9	24.4	70	nw.	9	4			10 n			0.776	19.7	thund'r st'm	Central Physical Obs'y.
Semipalatinsk	28.94	735.1	29.56	750.8	75.2	24.0	50	nw.	22	10			7			inap.	inap.		Major Lasarew
Tashkend, Laboratory	28.08	713.1	29.52	749.9	88.2	31.2	47	calm	0	0			8			0	0	light clouds	Teich, A. M.
Tiflis	28.46	722.9	29.77	756.2	96.3	35.7	20	se.	2	1		0	0			0	0		Physical Observatory.
Vladivostock	29.58	751.2	29.04	752.9	77.2	25.1	68	calm	0	0		0	4 k						
Warsaw	29.47	748.4	29.87	758.8	66.6	19.2	73	wnw.	9	4		0	3 k						Astronomical Obs y.
Wilna	29.45	748.1	29.85	758.1	80.4	26.9	66	se.	2	1			7			0.776	19.7	heavy cl'ds.	Berg, Assistent.
Yeniseisk	29.56	750.9	29.84	758.0	55.6	13.1	94	nw.	2	1			3			blank	blank		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.11	764.8	30.21	767.4	80.1	26.7	61	s.	4.0	1.8			3 k						Antonio Rave, Director.
Bilbao, Met. Obs'y	30.38	771.7	30.44	773.2	72.1	22.3	59	nw.	5.1	2.3		2	4	ne.		0.118	3.0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.39	695.8	30.34	770.6	63.7	17.6	49	ne.	11.9	5.3			1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.99	711.0	30.10	764.4	86.7	30.4	33	e.	9.2	4.1		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director
Santiago, Met. Obs'y	29.39	746.6	30.28	769.0	68.2	20.1	56	ne.	18.1	18.1			3			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.																			Benito Vines, S. J.
Manilla, Philippine Islands	29.69	754.1	29.75	755.6	78.8	26.0	89	nnw.	2.2	1.0			10 n		wnw.	0.449	11.4	drizzling	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.01	762.2	30.11	764.6	82.9	28.3	53	calm	0	0		1	3	e.	e.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.06	763.4	30.15	765.7	84.2	29.0	79	e.	2.2	1.0		1 s	2 k	e.	e.	0.276	7.0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.61	752.1	29.74	755.4	78.2	25.7	94	nnw.	2.1	0.9			10 kn		ne.	0.27	6.9	rainy	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.78	756.3	29.82	757.3	66.2	19.0	66	sw.			4		2			0	0		
Umea	29.84	758.0	29.89	759.3	71.6	22.0	52	sw.			2		7			0.287	7.3		
Hernosand	29.84	757.8	29.89	759.1	67.3	19.6	61	ssw.			4		2			0.236	6.0		
Stockholm	29.78	756.5	29.96	761.0	70.7	21.5	46	w.			2		2			0.138	3.5		
Wisby	29.86	758.5	29.92	760.0	66.6	19.2	83	nne.			2		7			0.075	1.9		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Sub-series.																			
Upsala	29.84	757.9	29.93	760.1	71.2	21.8	54	wsw.	4.5	2.0	.....	.....	7	ssw.	w.	0.441	11.2	.....	S. G. Fineman.
SWISS.																			
Geneva	.....	.....	.....	.....	60.8	16.0	67	ssw.	.....	.....	3	.....	.....	.....	.....	0.004	0.1	covered	The Observatory
SCOTTISH.																			
Monach Lt	.....	.....	30.30	769.6	65	18.3	94	s.	.....	.....	2	3	0	s.	.....	0	0	clear	J. Youngclause.
North Unst	.....	.....	30.17	766.3	.....	.....	.....	n.	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	
TURKISH.																			
Constantinople	.....	.....	29.90	759 5	87.3	30.7	62	se.	6	2.5	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.13	765.3	88.2	31.2	.....	sw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.84	758.0	86.0	30.0	59	w.	.....	.....	2	0	3 k	.....	w.	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.02	762.5	30.10	764.5	76.5	24.7	61	s.	3	1.3	.....	3 c	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.35	745.5	29.99	761.7	72	22.2	66	sw.	10	4.5	.....	6 cs	1 s	w.	.....	0.13	3.3	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.09	637.3	29.83	757.7	57	13.9	90	e.	6	2.7	.....	.....	10 s	.....	calm	0.15	3.8	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.31	693.7	30.04	763.0	51	10.6	61	sw.	13	5.8	.....	0	0	.....	.....	0.23	5.8	clear	B. O. Lenoir.
Atlanta, Georgia	29.06	738.1	30.21	767.3	70.0	21.1	100	e.	7	3.1	.....	.....	10 s	.....	e.	0.25	6.3	cloudy	H. Hall.
Atlantic City, New Jersey	30.13	765.3	30.14	765.5	76.3	24.6	74	sw.	6	2.7	.....	6 c	0	calm	.....	0	0	fair	Jas. M. Watson.
Augusta, Georgia	30.06	763.5	30.25	768.3	78.0	25.6	90	calm	0	0	.....	0	9 k	.....	se.	0.02	0.5	cloudy	John Healy.
Baltimore, Maryland	30.14	765.5	30.19	766.8	76	24.4	69	sw.	2	0.9	.....	8 cs	fg.	sw.	.....	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.13	765 3	30.15	765 8	80.0	26.7	67	w.	9	4.0	.....	3 cs	0	.....	.....	0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.38	720.8	29.92	760.0	68	20.0	90	nw.	9	4.0	.....	5 k	3 s	nw.	nw.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.33	694.2	30.04	763.0	45	7.2	71	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	G. W. Davis.
Behring Island, Behring Sea	29.53	750.0	29.55	750.6	48.8	9.3	.....	s.	7	3.1	.....	.....	10 s	.....	.....	0.02	0.5	light rain	Dr. L. Steineger.
Bismarck, Dakota	28.19	716.0	29.91	759 7	60	15.6	84	nw.	3	1.3	.....	0	0	.....	.....	0.02	0.5	clear	Cyrus Cramer.
Block Island, Rhode Island	30.08	764.0	30.11	764.8	74.8	23.8	82	w.	10	4 5	.....	0	hz.	.....	.....	0	0	clear	J. T. Elker.
Boise City, Idaho	27.17	690.1	29.89	759.2	56	13.3	64	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	29.92	760.0	30.07	763.8	75.0	23.9	60	w.	6	2.7	.....	2 c	hz.	w.	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.94	760.5	29.98	761.5	71.3	21.8	94	n.	2	0.9	.....	0	2 s	.....	calm	0	0	clear	M. McCarty.
Buffalo, New York	29.37	746.0	30.10	764.5	72	22.2	68	s.	7	3.1	.....	0	hz.	.....	.....	0	0	clear	Wm Finn.
Buford, Fort, Dakota	28.03	711.9	29.97	761.2	57	13.9	60	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	A. H. Bell.
Burlington, Vermont	29.73	755.1	30.01	762.2	75.0	23.9	60	s.	7	3.1	.....	7 ck	0	w.	.....	0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.77	756.1	30.16	766.1	71.7	22.1	86	s.	4	1.8	.....	2 ck	0	s.	.....	0	0	clear	W. H. Ray.
Campo, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. H. Glendenon
Camp Thomas, Arizona	27.18	690.4	29.78	756.4	73	22.8	73	calm	.....	.....	0	.....	9 ks	.....	nw.	inap.	inap.	cloudy	J. T. Fitzgerald.
Cape Henry, Virginia	30.19	766.8	30.21	767.3	75	23.9	90	sw.	2	0.9	.....	3 c	0	sw.	.....	0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.14	765.5	30.17	766.3	72.0	22.2	90	sw.	5	2.2	.....	6 c	0	s.	.....	0	0	fair	W. E. Smith.
Cape Mendocino	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. R. Williams.
Cedar Keys, Florida	30.16	766.1	30.18	766.6	79	26.1	82	e.	17	7.6	.....	0	0	.....	.....	0.03	0.8	clear	F. W. Mixer.
Champaign, Illinois	29.31	744.5	30.10	764.5	69.0	20.6	70	s.	2	0.9	.....	0	hz.	.....	.....	0	0	dense haze.	L. A. Welsh.
Charleston, S. Carolina	30.17	766.3	30.22	767.6	83	28.3	82	s.	5	2.2	.....	5 c	0	.....	.....	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.37	746.0	30.20	767 1	74.0	23.3	97	s.	2	0.9	.....	.....	10 n	.....	s.	0.51	13.0	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.40	746.7	30.20	767.1	70.0	21.1	97	ne.	2	0.9	.....	.....	10s; fg	.....	se.	0.05	1.3	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.21	614.9	29.90	759.4	50.4	10.2	59	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chicago, Illinois	29.37	746.0	30.06	763.5	72.8	22.7	64	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.17	766.3	30.19	766.8	75	23.9	90	sw.	5	2.2	.....	7 ck	0	se.	.....	0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.51	749.5	30.15	765.8	75.0	23.9	71	se.	3	1.3	.....	3 c	5 k	s.	s.	0	0	cloudy	J. F. Harrold.
Cleveland, Ohio	29.42	747.3	30.14	765.5	71	21.7	70	s.	4	1.8	.....	4 c	0	w.	.....	0	0	fair	J. B. Newlin.
Coleman City, Texas	28 26	717.8	30.02	762.5	69	20.6	90	s.	2	0.9	.....	6 cs	0	.....	.....	0	0	fair	L. Dorman.
Columbus, Ohio	29.31	744.5	30.14	765.5	72	22.2	53	s.	3	1.3	.....	.....	10 ks	.....	.....	0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.10	713 7	29.98	761.5	69	20.6	81	se.	2	0.9	.....	5 c	0	.....	.....	0	0	fair	W. W. McConlihe.
Custer, Fort, Montana	26.95	684.5	29.97	761 2	45	7.2	71	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	V. Verge.
Davenport, Iowa	29.42	747.3	30.04	763.0	72	22.2	71	sw.	6	2.7	.....	4 cs	0	calm	.....	0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	29.84	757.9	69	20.6	59	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.26	717.8	29.97	761.2	47.7	8 7	72	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.53	648 5	29.95	760.7	54.0	12.2	59	n.	2	0.9	.....	4 k	0	w.	.....	0	0	fair	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	74	23.3	43	se.	3	1.3	.....	0	3 s	.....	se.	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.16	766.1	30.18	766.6	73	22.8	97	sw.	14	6.3	.....	7 c; cs	0	w.	.....	0	0	fair	A. Schneider.
Denison, Texas	29.28	743.7	30.06	763 5	70.0	21.1	90	e.	4	1.8	.....	10 ck	0	.....	.....	0	0	cloudy	J. McGlone.
Denver, Colorado	24.88	631.9	29.89	759.2	61.5	16.4	55	nw.	12	5.4	.....	1 k	1 s	sw.	.....	0	0	clear	F. M. Neal.
Des Moines, Iowa	29.12	739 6	30.00	762.0	70	21.1	79	sw.	3	1.3	.....	7 cs	0	w.	.....	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.42	747.3	30.11	764.8	72.4	22.4	76	s.	5	2.2	.....	2 c	0	w.	.....	0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.37	695.2	29.87	758.7	71.0	21.7	68	s.	16	7.2	.....	3 c	2 s	e.	n.	0	0	fair	W. M. Mattingly.
Dubuque, Iowa	29.32	744.7	30.01	762.2	68.8	20.4	76	s.	2	0.9	.....	3 ck	hz.	s.	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.19	741.4	29.91	759 7	57	13.9	93	calm	0	0	.....	.....	fg.	.....	.....	0.06	1.5	dense fog	N. B. Conger.
Eagle Pass, Texas	29.25	742 9	30.04	763.0	73.2	22.9	82	se.	4	1.8	.....	1 c	0	.....	.....	0	0	clear	F. Belford.
Eagle Rock, Idaho	25 34	643.6	29.89	759.2	43	6.1	63	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	29.87	758.7	29.93	760.2	71.0	21.7	66	sw.	2	0.9	.....	.....	10s; hz	.....	w.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.21	691.1	29.85	758.2	65	18.3	65	se.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. J. Cundall.
El Paso, Texas	26.24	666.5	29.84	757.9	73	22.8	68	ne.	4	1.8	.....	.....	10 s	.....	ne.	0.02	0.5	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.41	747.0	30.12	765.0	74	23.3	64	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	Peter Wood.
Escanaba, Michigan	29.27	743 4	29.91	759 7	72	22.2	82	s.	2	0.9	.....	6 k	2 s	w.	.....	0.02	0.5	cloudy	C. Dill.
Fredericksburg, Texas	28.32	719.3	30.02	762.5	72	22.2	76	calm	0	0	.....	4 cs	0	.....	.....	0	0	fair	H. S. Miles.
Galveston, Texas	29.96	761.0	30.02	762 5	77	25.0	85	ne.	15	6.7	.....	8 cs	hz.	.....	.....	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.39	746.5	30.04	763 0	70.0	24.4	64	s.	10	4.5	.....	3 cs	2 k	sw.	.....	0	0	fair	W. A. Reid.
Grant, Fort, Arizona	25.29	642 4	29.86	758.4	69.4	20.8	81	ne.	4	1.8	.....	.....	10 s	.....	e.	0.05	1.3	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.21	767 3	30.23	767.8	78.0	25.6	88	w.	11	4.9	.....	3 c	3 k	sw.	.....	inap.	inap.	fair	R. M. Crawford.
Helena, Montana	25 94	658 9	30.00	762.0	47	8.3	66	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	S. Wheaton.
Henrietta, Texas	29.10	739 1	30.08	764.0	77.0	25.0	74	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. W. Byram.
Huron, Dakota	28 54	724.9	29.86	758.4	70.0	21.1	79	s.	9	4.0	.....	.....	9 ks	.....	s.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.35	745 5	30.12	765.0	71	21.7	71	calm	0	0	.....	0	hz.	.....	.....	0	0	dense haze	O. Schutze
Indianola, Texas	29.99	761 7	30.02	762 5	70.8	24.9	85	ne.	13	5.8	.....	0	2 ks	.....	se.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.89	733.8	30.01	762 2	68	20.0	84	se.	2	0.9	.....	3 c	2 s	n.	.....	0	0	fair	J. P. Sherry.
Jacksonville, Florida	30.16	766.1	30.20	767 1	80	26.7	88	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.60	701 0	30.01	762 2	51	10.6	48	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.40	746 7	30.03	762 7	75.0	23.9	69	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch
Key West, Florida	30.10	764.5	30.12	765.0	82.0	27.8	74	se.	12	5.4	.....	6 ck	4 s	.....	se.	0.01	0.3	cloudy	R. H. Paxton.
Kittyhawk, North Carolina	30.22	767.0	30.24	768.1	78.0	25.6	89	w.	6	2.7	.....	0	2 k	.....	w.	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.20	741 7	30.20	767 1	68.8	20.4	91	ne.	1	0.4	.....	.....	10 s	.....	sw.	0.16	4.1	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.19	741.4	29.94	760 5	74	23.3	64	s.	4	1.8	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	S. C. Emery
La Mesilla, New Mexico	26.09	662 7	29.83	757.7	67.5	19.7	85	calm	0	0	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	N. D. Lane.
Leavenworth, Kansas	29.17	740.9	30.03	762 7	71	21.7	66	s.	4	1.8	.....	4 cs	0	w.	.....	0	0	fair	A. W. Browne.
Lewiston, Idaho	29.23	742 4	30.04	763 0	58.0	14.4	64	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. Bell.
Little Rock, Arkansas	29.81	757.2	30.12	765 0	72	22.2	90	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. U. Simons.
Los Angeles, California	29.52	749 8	29.91	759 7	57 4	14.1	80	ne.	1	0.4	.....	0	6 s	.....	.....	0	0	fair	E. F. Kubel.
Louisville, Kentucky	29.57	751.1	30.12	765 0	71	21.7	82	se.	6	2.7	.....	3 ck	sk.	.....	.....	0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.52	749 8	30.20	767.1	73.0	22.8	73	calm	0	0	.....	3 cs	2 s	.....	.....	0	0	fair	W. R. Rushby.
Macon, Fort, North Carolina	30.23	767.8	30.24	768.1	79	26.1	91	w.	4	1.8	.....	9 k	0	w.	.....	0	0	cloudy	F. P. Chaffee.
Madison, Wisconsin	29 02	737 1	30.00	762.0	67	19.4	84	s.	5	2.2	.....	4 c	0	w.	.....	0	0	fair	C. A. Shaw.
Maginnis, Fort, Montana	25.73	653 5	.....	.....	49	9.4	52	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.84	707.1	30.04	763 0	68	20.0	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.20	741 7	29.91	759.7	68	20.0	84	calm	0	0	.....	.....	10 s	.....	w.	0.05	1.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.82	757.4	30.14	765 5	73	22.8	71	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.29	744.0	30.02	762.5	71	21.7	71	sw.	10	4.5	.....	6 c	0	.....	.....	0	0	fair	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.88	682.7	30.07	763.8	41	5.0	92	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.07	763.8	30.11	764.8	75.5	24.2	94	e.	3	1.3	.....	1 cs	0	sw.	.....	0.06	1.5	clear	C. A. Read.
Montgomery, Alabama	29.93	760.2	30.15	765.8	74.0	23.3	90	se.	6	2.7	.....	2 ck	fg.	.....	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	28.90	734 0	29.86	758.4	67	19.4	90	se.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.20	741.7	30.20	767.1	70.5	21.4	86	calm	0	0	.....	3 cs	4 s	.....	.....	0	0	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.98	609.1	30.05	763.3	49.0	9.4	93	nw.	46	20.6	.....	.....	10 s	.....	nw.	0	0	cloudy	J. G. Ensley
Nashville, Tennessee	29.66	753.4	30.18	766.6	67.0	19.4	90	calm	0	0	.....	0	8 ks	.....	sw.	0.05	1.3	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.00	762.0	30.11	764.8	73	22.8	71	sw.	2	0.9	.....	2 ck	sk.	sw.	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.06	763.5	30.11	764.8	77	25.0	74	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.05	763.3	76.0	24.4	90	se.	5	2.2	.....	.....	10 s	.....	se.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	30.05	763.3	30.10	764.5	75.7	24.3	75	sw.	2	0.9	.....	1 k	0	.....	.....	0	0	clear	W. McGillivray.
New York, New York	29.97	761.2	30.14	765.5	73.5	23.1	73	sw.	4	1.8	.....	1 cs	0	w.	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.18	766.6	30.21	767.3	79	26.1	88	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	H. L. Kemp.
North Platte, Nebraska	27.05	687.1	29.85	758.2	69.6	20.9	80	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.87	758.7	29.91	759.7	56.0	13.3	93	w.	1	0.4	.....	.....	10 n	.....	sw.	0.10	2.5	light rain	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.77	756.1	29.79	756.7	50.3	10.2	98	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	P. H. Ray.
Omaha, Nebraska	28.83	732.3	29.96	761.0	74.5	23.6	65	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Oswego, New York	29.75	755.6	30.07	763.8	74.0	23.3	58	sw.	6	2.7	.....	1 c	1 k	.....	w.	0	0	clear	S. W. Beall.
Palestine, Texas	29.55	750.6	30.09	764.3	72.0	22.2	82	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.09	764.3	30.12	765.0	76.3	24.6	97	ne.	3	1.3	.....	0	5 s	.....	e.	0.02	0.5	fair	M. McGauran.
Philadelphia, Pa	30.07	763.8	30.17	766.3	77	25.0	64	sw.	4	1.8	.....	5 c	hz.	nw.	.....	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	18.06	458.7	29.84	757 9	36	2.2	79	ne.	6	2.7	.....	0	5 s	.....	ne.	inap.	inap.	fair	L. M. Dey.
Pioche, Nevada	24.08	611.6	29.81	757.2	62.4	16.9	25	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.36	745.7	30.15	765.8	71.9	22.2	82	ne.	2	0.9	.....	8 ck	0	w.	.....	0	0	cloudy	J. H. Bryce.
Poplar River, Montana	27.88	708.1	.....	.....	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.05	763.3	30.06	763.5	78.0	25.6	90	se.	12	5.4	.....	3 c	6 ks	.....	w.	2.47	62.7	threatening	M. Hermann.
Port Huron, Michigan	29.42	747.3	30.08	764.0	71.0	21.7	82	s.	6	2.7	.....	7 ck	sk.	w.	.....	0	0	fair	W. O. Bailey.
Portland, Maine	29.94	760.5	29.98	761.5	77.5	25.3	53	w.	10	4.5	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.91	759 7	29.97	761.2	53.0	11.7	86	n.	3	1.3	.....	8 ck	1 s	nw.	.....	0	0	cloudy	M. L. Hearne.
Prescott, Arizona	24.81	630.2	29.80	756.9	58	14.4	77	s.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	J. Mc N. Wright.
Provincetown, Mass	30.03	702.7	30.06	763.5	75.0	23.9	71	sw.	8	3.6	.....	2 cs	1 s	w.	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.10	764.5	30.11	764 8	78.5	25.8	88	e.	11	4.9	.....	0	1 k	.....	e.	0.74	18.8	clear	W. J. Evans.
Red Bluff, California	29.47	748 5	29.83	757.7	67.8	19.9	53	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.80	756.9	30.03	762.7	77.7	25.4	79	calm	0	0	.....	0	0	.....	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.43	747.5	30.08	764.0	68.5	20.3	69	sw.	9	4.0	.....	1 k	hz.	.....	.....	0	0	clear	E. W McGann.
Roseburg, Oregon	29.44	747.8	29.98	761.5	49	9.4	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.75	755.6	29.82	757.4	62.4	16.9	68	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.54	750.3	30.12	765.0	70.0	21.1	92	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.05	738.1	29.90	759.4	66	18.9	90	s.	2	0.9	.....	4 cs	0	w.	.....	0.68	17.3	fair	P. F. Lyons
St. Vincent, Minnesota	28.97	735.8	29.81	757.2	62	16.7	93	w.	4	1.8	.....	0	2 s	.....	.....	0.11	2.8	clear	G. Kingsbury.
Salt Lake City, Utah	25.66	651.8	29.84	757.9	60	15.6	46	calm	0	0	.....	2 k	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.35	745.5	30.03	762.7	68.5	20.3	93	e.	1	0.4	.....	2 ck	0	e.	.....	0.03	0.8	fair	T. J. Kenan.
San Diego, California	29.81	757.2	29.88	758.9	64.0	17.8	81	s.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.46	748.3	30.12	765 0	72.4	22.4	66	s.	7	3.1	.....	5 ck	0	sw.	.....	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.10	764.5	30.12	765.0	78.0	25.6	69	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	B. A. Blundon.
San Francisco, California	29.82	757.4	29.89	759.2	54	12.2	86	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.33	592.6	29.83	757.7	58	14.4	72	calm	0	0	.....	4 ck	0	w.	.....	0.03	0.8	fair	H. U. Jones.
Savannah, Georgia	30.13	765.3	30.22	767.6	83.5	28.6	80	s.	3	1.3	.....	4 c	0	.....	.....	0.32	8.1	fair	H. W. Ford.
Shaw, Fort, Montana	26.53	673.8	30.04	763.0	40	4.4	73	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.86	758.4	30.09	764.3	70	21.1	84	e.	2	0.9	.....	1 c	0	.....	.....	0.03	0.8	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.85	732 8	30.05	763.3	69	20.6	81	se.	3	1.3	.....	10 ck	0	w.	.....	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.34	618 2	29.80	756.9	58	14.4	67	ne.	1	0.4	.....	0	4 s	.....	calm	0.08	2.0	fair	J. B. Wallace.
Sitka, Alaska	29.74	755.4	29.80	756.9	50	10.0	93	n.	4	1.8	.....	.....	fg.	.....	n.	0	0	dense fog	J. J. McLean.
Smith, Fort, Arkansas	29.62	752.3	30.08	764.0	71.0	21.7	82	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.21	767.3	30.24	768.1	81	27.2	85	sw.	6	2.7	.....	1 c	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.04	712.2	30.02	762.5	48	8.9	58	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.45	748 0	30.11	764 8	68.7	20.4	75	s.	6	2.7	.....	hz.	1s;hz	.....	nw.	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.98	761.5	30.11	764.8	73.2	22.9	76	s.	1	0.4	.....	3 k	0	sw.	.....	0	0	clear	T. S. Outram.
Springfield, Mo	28.70	729.0	30.08	764.0	70	21.1	76	se.	3	1.3	.....	2 k	0	se.	.....	0	0	clear	J. B. Marbury.
Starkville, Miss	29.68	753.9	30.15	765.8	72	22.2	82	ne.	4	1.8	.....	.....	10 s	.....	se.	0	0	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.16	715 3	29.94	760.5	50	10.0	93	w.	4	1.8	.....	0	0	.....	.....	0.31	7.9	clear	W. Burrows
Stockton, Fort, Texas	27.00	685.8	29.94	760.5	67.0	19.4	76	s.	12	5 4	.....	0	1 s	.....	s.	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass	29.99	761 7	30.04	763.0	73.5	23.1	71	w.	15	6.7	.....	3 c	hz.	w.	.....	0	0	clear	G. Liebmann
Toledo, Ohio	29.42	747 3	30.09	764.3	75	23.9	69	w.	4	1.8	.....	2 ck	sk.	.....	.....	0	0	dense smoke	A. Buell.
Tucson, Arizona	27.47	697.7	29.79	756.7	81	27.2	49	e.	8	3.6	.....	0	3 ks	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.64	752 8	30.00	762.0	51.5	10.8	56	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.07	738.4	30.01	762.2	71	21.7	84	e.	2	0.9	.....	10 c	0	ne.	.....	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	66.8	19.3	70	s.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.87	758.7	30.11	764.8	71	21 7	84	e.	2	0.9	.....	2 ck	6 s	e.	e.	0	0	cloudy	H. P. Brisbane.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.63	625.6	29.96	761.0	48.2	9.0	68	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.08	764.0	30.19	766.8	73.8	23.2	71	sw.	1	0.4	.....	6 c	0	nw.	.....	0	0	fair	B. M. Purssell.
West Las Animas, Colorado	26.01	660.6	29.77	756.1	67.9	19.9	73	calm	0	0	.....	1 c	0	sw.	.....	0	0	clear	F. W. Brandenburg.
Williamsport, Pa	29.57	751.1	30.15	765.8	67	19.4	78	sw.	4	1.8	.....	2 k	sk.	w.	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.19	766.8	30.24	768.1	78	25.6	97	calm	0	0	.....	1 c	hz.	.....	.....	1.01	25.7	clear	A. T. Sherwood.
Winnemucca, Nevada	25.58	649.7	29.80	756.9	53	11.7	28	ne.	11	4.9	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.69	728.7	29.96	761.0	66	18.9	93	calm	0	0	.....	.....	10 ks	.....	.....	0.11	2.8	cloudy	J. H. Attfield.
Yuma, Arizona	29.57	751.1	29.71	754 6	82.2	27.9	35	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6	.....	.....	55.0	12.8	69	w.	4	1.8	.....	.....	8 sn	.....	sw.	0.59	15.0	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W.I	30.13	765.3	30.14	765.5	80	26.7	91	e.	.....	.....	.....	10 k	10 ks	e.	e.	0	0	cloudy	J A. Racker.
Buenaventura, U. S. C.	29.97	761 2	30.00	762.0	75	23.9	95	sw.	8	3.6	.....	.....	10 n	.....	calm	0.90	22.9	light rain	J. I. Plume.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	81.2	27.3	73	calm	0	0	.....	1 k	2 ks	.....	se.	0	0	fair	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	79	26.1	.....	w.	.....	.....	6	.....	10 k	.....	s.	0.11	2.8	.....	S. M Pike.
Navassa	29.93	760.2	30.01	762 2	82.5	28.1	70	ne.	8	3.6	.....	3 k	1 s	se.	e.	0	0	.....	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	77	25.0	91	se.	.....	.....	2	0	4 k	.....	e.	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.39	746.5	29.95	760.7	78	25.6	84	s.	.....	.....	1	3 c	7 ks	calm	e.	0.03	0.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	98	ne.	.....	.....	1	.....	10 ks	.....	ne.	0.16	4.1	cloudy	Earl Flint.
Santiago de Cuba, W. I.	30.07	763.8	30.10	764.5	81	27.2	74	n.	4.8	2.1	.....	4 cs	0	.....	.....	0	0	fair	Robert Mason.
York Factory, B. A.	29.95	760 7	30.01	762.2	57.0	13.9	87	n.	14	6.3	.....	0	0	.....	.....	0	0	clear	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, S. 3° 06′ W. 15° 29′	30.16	766.1	75	23.9	83	ene.			4		4							d. clouds.
H. M. S. Amethyst, S. 34° 04′ W. 52° 49′	30.32	770.1	55	12.8	96	ene.			3		5	ne.				2	ne.	misty.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.91	759.7	91	32.8		n.			3									blue sky.
H. M. S. Bacchante, N. 36° 14′, W. 6° 48′	30.06	763.5	75	23.9	85	nnw.			1-2		0							misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.25	768.3	67	19.4		calm			0		0							blue sky.
H. M. S. Champion, Yokohama, Japan			82	27.8	91	sw.			1		0							blue sky.
H. M. S. Comus, N. 49° 27′, W. 151° 00′	30.05	763.3	52	11.1	93	se.			1-2		10					5	sw.	drizzling.
H. M. S. Diamond, S 9° 24′, E. 160° 17′	29.88	758.9	80.5	26.9	89	s.			1		9	s.						d. clouds.
H. M. S. Dido, N. 14° 50′, W. 61° 30′	30.17	766.3	80	26.7		ene.			1									showery.
H. M. Dock-Yard, Bermuda, W. I.	30.21	767.3	79.5	26.4	88	wsw.			1-2		5	wsw.						d. clouds.
H. M. S. Druid, N. 40° 05′, W. 50° 52′	30.19	766.7	74.5	23.6	81	sse.					7	sse.				1	ssw.	d. clouds.
H. M. S. Eclipse, N. 14° 32′, E. 42° 28′	29.66	753.4	90	32.2		nw.			1-2		2							d. clouds.
H. M. S. Emerald, N. 18° 40′, W. 26° 30′	30.06	763.5	75	23.9	100	nne.			3-4		4	nne.				2	nne.	d. clouds.
H. M. S. Euryalus, N. 20° 40′, E. 38° 35′	29.75	755.6	89	31.7	91	w.			1-2		0							blue sky.
H. M. S. Espiegle, S. 17° 35′ E. 168° 16′	29.89	759 2	73	22.8	81	e.			1-2		1	wnw.						blue sky.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.06	763.5	58.5	14.7	94	sse.			3		9							drizzling.
H. M. S. Garnet, N. 22° 10′ W. 29° 30′	30.18	766.6	75	23.9	68	nne.			6		3					4	nne.	d. clouds.
H. M. S. Griffon, N. 51° 13′, W. 56° 47′	29.54	750.3	54	12.2	93	sw.			2		10							squally.
H. M. S. Iron Duke, N. 51° 26′ E. 140° 52′	29.32	744.7	68	20.0	94	calm			0		6							d. clouds.
H. M. S. Kingfisher, N. 48° 10′ W. 124° 50′	29.84	757.9	56	13.3		nne.			2		7							raining.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.90	759.4	80.3	26.8	94	calm			0		9							showery.
H. M. S. Liffey, Coquimbo, Chili	29.99	761.7	57.5	14.2		n.			2		3	n.				2	n.	d. clouds.
H. M. S. Magpie, N. 33° 16′, E. 129° 17′	29.95	760.7	79.5	26.4	91	wnw.			1		2	wnw.				1	w.	misty.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.88	758.9	81	27.2	74	nw.			2		1					1	nw.	blue sky.
H. M. S. Nelson, S. 35° 16′, E. 174° 08′	29.72	754.9	59	15.0	94	nne.			1									d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.94	760.5	69	20.6	84													
H. M. S. Orontes, N. 31° 49′, E. 28° 17′	29.90	759.4	79.5	26.4	93	w.			1		0					1	wsw.	blue sky.
H. M. S. Pegasus, N. 5° 24′, E. 100° 20′	29.78	756.4	81.5	27.5	82	sw.			2		8	nw.						d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Is'd	30.16	766.1	70	21.1	90	calm			0		9	ese.						showery.
H. M. S. Rocket, Vancouver Island, B. A.	29.83	757.7	56	13.3	100	nne.			2		7							raining.
H. M. S. Sappho, N. 4° 20′ W. 149° 48′	29.83	757.7	78.5	25.8		ene.			4		3	e.				2	e.	showery.
H. M. S. Swiftsure, S. 39° 50′, W. 58° 25′	30.47	773.9	46.5	8.1	85	e.			3		9	e.				2	se.	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.31	769.9	52.0	11.1	96	e.			2		9	calm						misty.
H. M. S. Tenedos, N. 51° 25′ W. 57° 08′	29.52	749.8	55	12.8	93	wnw.			2		8							d. clouds.
H. M. S. Triumph, Sandy Point, Patagonia.	29.82	757.4	43	6.1	75	nnw.			1-4		3	nnw.						d. clouds.
H. M. S. Tyne, N. 37° 21′, W. 44° 15′	30.29	769.4	78	25.6	95	ssw.			3-4		5					3	ssw.	d. clouds.
H. M. S. Woodlark, Jask Bay, Persia	29.51	749.5	93.5	34.2	67	w.			4-5		0					2	w.	dense mist.
PORTUGUESE NAVAL.																		
Rio Lima, Cayor, Senegambia	30.10	764.4	81.9	27.7	88	nnw.			1		10			2 h'r	2 h'r	1		overcast.
Tamega, Macao, China	29.79	756.7	84.2	29.0	81	e.			3		8							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	30.02	762.5	79	26.1	91	se.	4	1.8			2		se.	0	0			fair.
N. Yard, Portsmouth, N. H.	30.07	763.8	73	22.8	63	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.78	756.4	80.5	26.9	76	calm			0		0			0	0			clear.
Adams, Mare Island, Cal.						sw.			3		0			0	0	sm'h		clear.
Alaska, Callao, Peru	29.96	761.0	59	15.0	94	se.			1		10			0	0	sm'h		cloudy.
Alliance, Boston, Mass	30.06	763.5	76	24.4	68	w.			1		2			0	0			clear.
Ashuelot, Yokohama, Japan*	29.75	755.6	82	27.8	83	sw.			2		2		calm					clear.
Brooklyn, Rio de Janeiro, Brazil	30.32	770.1	69	20.6	100	e.	2	0.9			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.10	764.5	75	23.9	81	wsw.	9	4.0			5		s.	0	0			hazy.
Constellation, New York, N. Y*	30.10	764.5	74	23.3	76	wnw.			1		0							clear.
Enterprise, Provincetown, Mass*	30.04	763.0	72	22.2	85	w.			2		2		calm			sm'h		clear
Essex, Valparaiso, Chili	29.94	760.5	54	12.2	80	n.			3		10		n.			sm'h	n.	overcast.
Franklin, Norfolk, Va.	30.23	767.8	76	24.4	95	ssw.	4.8	2.1			2		ssw.	0	0			fair.
Galena, Gibraltar, Mediterranean	30.09	764.3	71	21 7	100	nw.			1-2		0					sm'h		hazy.
Independence, Mare Island, Cal.	29.93	760.2	70	21.1	75	sw.			4		0			0	0			clear.
Iroquois, Mare Island, Cal.	30.06	763.5	58	14.4	82	sw.			3		0							clear.
Kearsarge, Norfolk, Va.	30.19	766.8	76	24.4	100	w.			1		2		w.					clear.
Lackawana, Callao, Peru*	30.01	762.2	59	15.0	94	se.			2		8		se.					misty.
Lancaster, Mezzina, Italy*	30.02	762.5	82	27.8	91	ene.			4		0			0	0	sm'h		clear.
Marion, S. 34° 54′, W. 56° 13′	30.29	769.4	53	11.7	100	nne.			2		10		nne.			sm'h		misty.
Michigan, Green Bay, Wisconsin	30.00	762.0	70	21.1	80	sw.			3		0							clear.
Minnesota, Newport, R. I.	30.14	765.5	72	22.2	85	calm	0	0			2							hazy.
Monocacy, Chefoo, China	29.78	756.4	86	30.0	68	se.					2		se.			sm'h		fair.
New Hampshire, Newport, R. I.	30.14	765.5	72	22.2	90	calm			0		0					sm'h		clear.
Nipsic, N. 34° 14′, E. 13° 45′*	30.04	763.0	82	27.8	79	nnw.			1		0					sm'h		clear.
Onward, Callao, Peru†	30.13	765.3	58	14.4	100	sse			3		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.83	757.7	83	28.3	91	s.			1		8		wsw.					fair.
Passaic, Washington, D. C.	30.26	768.6	74	23.3	95	s.			1		2		s.					clear.
Pensacola, Panama, Panama*	29.82	757.4	74	23.3	95	calm	0	0			10			1.19	30.2	sm'h		heavy rain.
Portsmouth, N. 41° 30′ E. 7° 02′*	30.06	763.5	70	21.1	75	nw.			5		5		nw.			r'gh	nw.	fair.
Powhatan, Pensacola, Florida	30.11	764.8	84	28.9	87	se.			1		2							fair.
Quinnebaug, Alexandria, Egypt	29.88	758.9	80	26.7	82	nw.			4		0					sm'h		clear.
Ranger, Mare Island, Cal.	29.91	759.7	59	15.0	76	sw.			3		0			0	0			clear.
Richmond, Yokohama, Japan*	29.75	755.6	80	26.7	91	s.			1		0			0	0			clear.
Saratoga, Genoa, Italy	29.91	759.7	77	25.0	61	se.			3		5		se.	0	0	mod.	se.	fair.
St. Louis, League Island, Pa.	30.40	772.1	78	25.6	69	sw.			3		2		sw.	0	0			clear.
Swatara, Yokohama, Japan*	29.68	753.9	82	27.8	83	wsw.			1		0					sm'h		clear.
Tennessee, Provincetown, Mass.	30.09	764.3	73	22.8	85	w.	5	2.2			2			0	0			clear.
Vandalia, Portsmouth, N. H*	30.00	762.0	73	22.8	72	nw.			2		2		calm					hazy.
Wabash, Boston, Mass	30.06	763.5	75	23.9	81	w.	2	0.9			9?		w.	0	0			clear ?
Wachusetts, Fort Wrangle, Alaska†	30.05	763 3	52	11.1	93	se.			1		2		calm	0	0	sm'h		clear.
Wyoming, Port Royal, S. C*	30.17	766.3	80	26.7	82	s.	9	4.0			5		sw.	0	0			fair.
Yantic, Provincetown, Mass.	29.98	761.5	82	27.8	63	sw.			2		0							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, Glasgow, Scotland *	30.31	769.9	66	18.9		var.			1		8		ese.					cloudy.
S. S. Scandinavian, N. 53° 27′, W. 25° 46′*	29.42	747.3	58	14.4		sw.			4		fg.			6 h'r	6 h'r	mod.	con.	foggy.
S. S. Waldensian, N. 42° 35′, W. 64° 53′*	30.03	762.7	74	23.3		w.			3		2		wsw.	0	0	light	w.	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, N. 49° 42′, W. 28° 41′ *†	29.77	756.1				wsw.			5		7		sw.	0	0	sm'h	wsw.	cloudy
S. S. Lord Gough, N. 43° 36′, W. 58° 37′	29.97	761.2	75	23.9		sw.			4		0			0	0	sm'h	sw.	fair.
AMSTERDAM LINE.																		
S. S Jason, N. 41° 32′ W. 66° 40′	30.01	762.3	57.2	14.0		wsw.			3	2 c						1	w.	foggy.
ANCHOR LINE.																		
S S. Alexandria, Leghorn, Italy	30.00	762.0	77	25.0		nw.			4		2		nw.	0	0			fair.
S. S. Ethiopia, N. 40° 31′, W. 73° 30′	30.11	764.8	79	26.1	78	wsw.			3		0			0	0			clear.
S. S. Galatia, N. 17° 30′ E. 64° 39′†	30.00	762.0	80	26.7		sw.			7		8		ssw.	0	0		sw.	
S. S. India, N. 41° 41′, W. 55° 29′*	30.01	762.2	76	24.4	95	wsw.			1		1					sm'h		clear.
S. S. Utopia, N. 43° 52′, W. 41° 21′†	30.36	771.1	70	21.1	49	n.			2		6		nne.	4 h'r	4 h'r	mod.	con.	cloudy.
ATLAS LINE.																		
S. S. Ailsa, Jeremie, Hayti, W. I.†	30.09	764.3	80	26 7	82	ne.			3		2		ne.	1 h'r	1 h'r	light	ne.	fair.
S. S. Alpin, N. 29° 44′, W. 69° 40′	30.27	768.8				se.			1		1		se.	rain	rain		s.	clear
S. S. Alvo, Carugena, U. S. C.	29.93	760.2							2		6			0	0			cloudy.
S. S. Antillas, N. 35° —′ W. 74° —′*†	30.35	770.9	82	27.8		calm			0							sm'h		fine.
BOSTON AND HALIFAX.																		
S. S Carroll, Charlottetown, Prince Edward I'd†	29.91	759 7				wsw.			3					0	0			f lr.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 28° 33′, W. 35° 16′	30.33	770.4	71	21.7	68	calm			0		2							blue sky.
S. S. Basil, N. 0° 47′, W. 46° 07′	30.07	763 8	79.8	26.6	86	ese.			4		9							d. clouds.
S. Baroda, S. 23° 38′. E. 5° 55′	30.26	768.6	63.5	17.5	78	s.			5		7							d. clouds.
S. S. City of Agra, S. 25° 42′, W. 35° 00′	30.36	771.1	68	20.0	93	se.			4		5							d. clouds.
Bk. Commewyne, N. 31° 54′, W. 59° 44′	30.24	768.1	80.8	27.1	70	wsw.			1		6							d. clouds.
S. S. Gordon Castle, N 41° 19′. W. 64° 22′	30.09	764.3	78	25.6	77	sw.			4		0							blue sky.
S. S. Markland, S. 34° 45′, W. 81° 55′	30.00	762 0	53	11.7	95	ssw.			4		7					5	se.	raining.
S. S. Oamaru, S. 23° 46′, E. 3° 00′	30.29	769.4	63.7	17.6	78	e.			5–6		9							showery.
S. S. Pole Star, N. 35° 04′ W. 40° 55′.	30.37	771.4	80.4	26.9	91	ssw.			1		3							blue sky
CUNARD LINE.																		
S. S. Bothnia, N. 49° 05′. W. 30° 14′	29.85	758 2	61	16.1	82	w.			4		10		w.	5 h'r	5 h'r	mod.	con.	cloudy.
S. S. Gallia, N 50° 22′, W. 20° 06′	29.94	760.5	61	16.1	94	sw.			6		10			mist	mist			drizzling.
S. S. Marathon, Mersey River, Eng	30.30	769.6	60	15.6		wnw.			1		2			0	0			fine.
S. S. Scythia, N. 40° 27′, W. 71° 16′.	30.10	764.5	72.5	22.5	95	w.			1		0			0	0	sm'h		clear.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N. 47° 47′, W. 28° 40′†	29.91	759.7	62.6	17.0		wsw.			2	ck		wsw.		0	0	h'vy	w.	hazy.
S. S. Ville de Marseilles. N. 39° 30′, E. 10° 45′ *†	30.05	763.3	80	26.7		e.			3		0			0	0	sm'h		clear.
GUION LINE.																		
S. S. Arizona, Tuskar, Ireland	30.36	771.1	62	16.7		calm					0			0	0	sm'h		blue sky
S. S. Wisconsin, N. 41° 35′, W. 69° 45′	30.10	764.5	66	18.9	94	sw.			2		0			0	0	sm'h		clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 43° 35′ W. 51° 38′ †	30.06	763.5				ssw.			4		3		s.	0	0	sm'h	sw.	
S. S. Cimbria, Off St. Catharine's Light, Eng	30.32	770.1	61	16.1		wnw.			2		3		w.	0	0	sm'h	w.	fair.
S. S. Gellert, N. 45° 58′, W. 48° 24′	30.13	765.3	61	16.1		sw.			3		10		sw.	0	0	mod.	sw.	covered.
S. S. Herder, Hamburg, Germany	29.95	760.6	66	18.9		n.			2		10		e.	0	0			covered.
S. S. Silesia, N. 42° 52′, W. 51° 21′†	30.22	767.6	61.2	16.2	94	sw.			5		5		se.	0	0	3	w.	fair.
S. S. Westphalia, N. 50° 40′, W. 29° 46′	29.61	752.1	59	15 0	76	sw.			5		10		sw.	9 h'r	9 h'r	mod.	ssw.	stormy.
S. S Wieland, Fire Island, N. Y.	30.15	765.8	75	23.9		w.			2–3		5		w.	0	0	2	sw.	hazy.
INMAN LINE.																		
S. S. City of Berlin, N. 43° —′, W. 46° —′	30.16	766.1				w.			1		8		wsw.	0	0	sm'h		fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 35° 00′, W. 53° 00′*†	30.60	777.2	68	20.0		wnw.			5		4		w.	0	0	sm'h		clear.
LEYLAND LINE.																		
S. S. Bulgarian, N. 48° 40′, W. 38° 02′*	30.07	763 8				w.			3		10		w.	2 h'r	2 h'r	mod.	w.	overcast.
MALLORY LINE.																		
S. S. Colorado, New York, N. Y. †	30.15	765.8	75	23.9		calm			0		0			0	0			clear.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Brooklyn, N. Y.*†	30.17	766.3	76	24.4	90	wsw.			2		0			0	0			clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 46° 00′, W. 41° 10′*†	29.86	758.4	62.6	17.0		sw.			1		10		sw.	0	0	sm'h	sw.	cloudy.
MERCHANT STEAMSHIP COMPANY																		
S. S. Glenfyne, N. 20° 57′, W. 57° 39′	29.62	752.3				ene.			4				e.	0	0	sm'h	ne.	fine.
MORGAN LINE																		
S. S. New York, N. 40° 08′, W. 73° 55′ *†	30.20	757.1	74	23.3		w.			1		0			0	0	sm'h		clear.
NATIONAL LINE.																		
S. S. Canada, N. 43° 26′, W. 41° 30′†.	30.12	765.0	68	20.0		n.			2		1		ne.	0	0		wnw.	clear.
S. S. Denmark, New York, N. Y.	30.07	763 8	80	26 7		wsw.			3		2		sw.	0	0			clear.
S. S. England, N. 40° 54′, W. 50° 41′	30.15	765.8				s.			2		0			0	0	sm'h		clear.
S. S. Erin, New York, N. Y	30.05	763.3	84	28.9		sw.			2					0	0			
S. S. The Queen, N. 43° 27′, W. 38° 53′	30.11	764.8	66	18.9		s.			3		5		calm	sh'rs	sh'rs	long	sw.	hazy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 21° 00′ W. 79° 30′†	30.13	765.3	81	27.2		ene.			4		3		nne.	0	0	sm'h		fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y†	30.16	766.1	76	24.4	81	ssw.			2		2		sw.	0	0			clear.
S. S. City of Washington, Havana, Cuba, W. I*†	30.25	768.3	85	29.4		calm			0		1		e.	0	0	sm'h		fine.
NORTH GERMAN LLOYD.																		
S. S. America, N. 38° 10′, W. 72° 34′*	30.23	767.8	76.1	24.5		wsw.			3		0			0	0	sm'h		clear.
S. S. Habsburg, N. 53° 33′, E. 5° 18′	30.09	764.3	60.8	16.0		n.			6		5		n.	shr's	shr's	r'gh	n.	fair.
S. S. Hermann, N. 42° 13′, W. 46° 32′	29.99	761.7	69.8	21.0		w.			4		3		ne.	0	0	high	s.	fair.
S. S Leipzig, N. 47° 24′, W. 29° 28′	30.00	762.0	73.0	22.8	?	w.			2		2		wnw.	5 h'r	5 h'r	mod.	nw.	hazy.
S. S. Neckar, N 45° 24′ W. 37° 52′	30.17	766.3	59.0	15.0		wnw.			4		9?		nw.	0	0	mod.	w.	clear?
S S. Ohio, Bremerhaven, Germany	30.07	763.8				nne.			5		7?		nne.	5 h'r	5 h'r			covered?
S. S. Rhein, N. 41° 16′, W. 52° 20′	30.11	764.8				w.			2		3		w.	0	0	mod.	w.	fair.
S. S. Salier, Bremerhaven, Germany	30.22	767.6	56.3	13.5		n.			3		8		n.	2 h'r	2 h'r			cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 45° 07′. W. 139° 06′. *†	30.03	762.7	58	14.4	93	n.			1		2		ne.	0	0	sm'h		blue sky.
S. S. Belgic, N. 41° 18′ W. 141° 35′†.	30.35	770.9	68	20.0	90	calm			0		2		sw.			sm'h		clear.
S. S. Gaelic, N. 42° 50′, W. 177° 13′†	30.01	762.2	56	13.3	100	sw.			3		10					long	w.	raining.
S. S. Oceanic, N. 38° 12′ E. 140° 27′*.	29.76	755.9	78	25.6	90	wsw.			3		5		sw.			2	ese.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	30.18	766.6				wsw.			1		0			0	0			clear.
S. S. City of Columbus, New York, N. Y.†.	30.12	765.0				sw.			3		0			0	0			clear.
S. S. Seminole, Savannah, Ga.†	30.22	767.6	86	30.0	75	sw.			1		1		sw.	2 h'r	2 h'r			clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 38° 04′, W. 123° 06′†	29.85	758.2	52	11.1	86	nw.			4		0			0	0	mod.	nw.	clear.
S. S. Oregon, Portland, Oregon†	29.98	761.5	55	12.8	87	e.			1		5		wsw.					fine.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 35° 15′, W. 120° 50′†	29.87	758.7	54	12.2	93	nw.			2		10		nw.			mod	wnw.	cloudy.
S. S. City of Chester, Off Estero Bay, Cal.*†	29.86	758.4	53	11.7	100	nw.			2		8		nw.			long	nw.	hazy.
S. S. Idaho, Portland, Oregon †	29.91	761.0	54	12.2	86	e.			3		0							clear.
S. S. State of California, San Francisco, Cal†	29.89	759.2	50	10.0	53	sw.			2		0							clear.
S. S. Victoria, Nanaimo, Vancouver's I'd†	29.76	755.8	57	13.9	100	se.			2		8			10 h'r	10 h'r			overcast.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.			
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	29.82	757.4	43	6.1	83	wsw.			4		0			0	0			clear.
S. S. City of New York, S. 33° 51′, E. 162° 32′†	29.41	747.0	54	12.2	67	w.			7		8		w.	4 h'r	4 h'r	h'vy	w.	squally.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.10	764.5	78	25.6	91	nnw.			2		8		nw.	3 h'r	3 h'r	sm'h		threatening.
S. S. City of Sydney, S. 2° 14′, W. 166° 28′†	29.83	757.7	80	26.7	78	ne.			5		8		ne.	0	0	mod.	ne.	cloudy.
S. S. City of Tokio, N. 33° 12′, E. 133° 47′†	30.02	762.5	84	28.9	74	sw.			3		2		ssw.	0	0	light	sw.	fine.
S. S. Colima, N. 24° 51′, W. 112° 38′†	29.88	758.9	65	18.3	89	wnw.			5		9		wnw.	0	0	mod.	nw.	cloudy.
S. S. Costa Rica, Panama Panama*†	29.98	761.5	75	23.9	100	se.			5		10		se.	h'vy	h'vy	sm'h		heavy rain.
S. S. Grenada, N. 22° 44′, W. 106° 07′†	29.93	760.2	80	26.7	91	sse.			3		2		se.	1 h'r	1 h'r	sm'h	sse.	clear.
QUEBEC STEAMSHIP CO.																		
S. S. Bermuda, Bridgetown, W. I†	30.05	763.3	81	27.2		e.			2		9		e.	20 h'r	20 h'r	gentle	se.	cloudy.
RED STAR LINE.																		
S. S. Belgenland, New York Harbor, N. Y†	30.24	768.1	91	32.8	88	sw.			3		9		sw.	0	0			
S. S. Rhynland, N. 40° 48′, W. 51° 15′	30.26	768.6	76	24.4	77	wsw.			2		10		sse.	0	0	long	sw.	fair.
S. S. Switzerland, N. 46° 10′, W. 33° 35′†	30.11	764.8				w.			4		5		w.	8 h'r	8 h'r	r'gh	wsw.	fair.
S. S. Vaderland, N. 39° 56′, W. 53° 24′	29.93	760.2	76	24.4	82	wsw.			3		10		wsw.	0	0	sm'h	w.	overcast.
ROTTERDAM LINE.																		
S.S. Schiedam, N. 49° 31′ W 16° 26′*	30.17	766.3	63.0	17.2	90	s.			6		10			3 h'r	3 h'r	roll'g	sw.	hazy.
S. S. W. A. Scholten, New York, N. Y.	30.01	762.2	76.8	24.9	78	calm			0		7		w.	0	0			
STATE LINE.																		
S. S. State of Florida, N. 50° 10′, W. 29° 15′	29.76	755.9	58	14.4		wsw.			5		10		sw.	6 h'r	6 h'r	mod.	wsw.	hazy.
THINGVALLA LINE.																		
S. S. Thingvalla, Copenhagen, Denmark†	30.35	770.9	72.5	22.5		nne.			2		2		nne.	0	0			clear.
WARREN LINE.																		
S. S. Iowa, N. 41° 52′, W. 61° 27′*†	30.20	767.1	70	21.1		wsw.			3		10		wsw.	0	0	sl't	wsw.	dense fog.
W. I. & PACIF. C. S. CO.																		
S. S. Venezuela, N. 38° —′, W. 69° —′*	30.19	766.8	79	26.1	?	var.			1		1		se.			sm'h		clear.
WHITE CROSS LINE																		
S. S. Plantyn, N. 47° 19′, W. 31° 28′	30.08	764.0							4		8		sw.	6 h'r	6 h'r	3	wsw.	fine.
WHITE STAR LINE.																		
S. S. Adriatic, N. 47° 46′, W. 33° 25′†	30.08	764.0	61	16.1	88	wnw.			4		8		wnw.	3 h'r	3 h'r	mod.	wnw.	clearing.
S. S. Celtic, Liverpool, Eng†	30.42	772.7	66	18.9	79	nw.			4		2		nw.	0	0			fair.
S. S. Republic, N. 41° 52′, W. 60° 51′†	30.28	769.1	72	22.2	90	wsw.			5		0			0	0	sm'h		blue sky.
WILSON LINE.																		
S.S. Romano, Hull, Eng	30.26	768.6	64	17.8		nne.			2		2		sw.	0	0			clear.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa†	30.20	767.1	78	25.6		sw.					0			0	0			clear.
MISCELLANEOUS.																		
Bg. Abbie Clifford, N. 37° 50′ W. 73° 45′*†	30.22	767.6				sw.			2									
Schr. Ajax, N. 26° 09′ W. 85° 35′†	30.17	766.3				e.			1		10		e.	1 h'r	1 h'r	sm'h	s.	cloudy.
Bk. Alpha, N. 40° 40′, W. 54° 00′†	30.12	765.0	78	25.6		ese.			3		3		nw.	0	0	mod	sw.	fair.
Schr. Annie Lewis, N. 26° 34′, W. 93° 30′†	30.13	765.3	83	28.3		sse.			2		8		sw.	2 h'r	2 h'r	long	se.	cloudy.
Bk. Anna Thorman, S. 39° 53′, E. 51° 49′	29.72	765.0	58.5	14.7	93	w.			9		10 n		nw.	3 h'r	3 h'r	high	wnw.	thund'r st'm.
S. S. Antonio Lopez, N. 23° 11′, W. 79° 29′	30.13	765.3	78.5	25.8	90	e.			1		7			2 h'r	2 h'r	sm'h		cloudy.
Bk. Argonaut, N. 46° 36′, W. 37° 24′*†	30.15	765.8	59.0	15.0		wsw.			3		8		wsw.	2 h'r	2 h'r	cross	w.	covered.
Schr. Asa Eldridge, Punta Rassa, Fla†	30.20	767.1				e.			3		2		se.	2½h'r	2½h'r			fair.
Bk. Bremen, N. 59° 37′. W. 2° 35′	30.20	767.1				s.			4		2		nnw.	0	0	mod.	nnw.	fair.
S. S. Burswell, N. 45° 20′, W. 1° 00′*†	30.08	764.0	76	24.4		nnw.			4		2		nnw.	4 h'r	4 h'r	sm'h		fine.
Bk. Cato, Elsineur, Deumark*†	30.30	769.6				n.			1		2		ne.	0	0			fair.
Bk. Celestina, S. 14° 41′ W. 25° 08′*†	30.15	765.8				ese.			2		2		se.	0	0	sm'h		clear.
Schr. C. R. Flint, N. 24° 25′, W. 82° 11′†	30.34	770.6	76	24.4		ese.			1		10		se.	sh'rs	sh'rs	mod	se.	drizzling.
S. Cornelius, N. 44° 42′, W. 28° 00′*†	30.36	771.1	69	20.6		ssw.			5		10		sw.	0	0	long	wsw.	cloudy.
S. S. D. J. Foley, Port Maria, Jamaica, W. I†	30.00	762.0							3		2			0	0			clear.
Schr. Edith R. Seward, Turk Island W. I*†	30.13	765.3	84	28.9		ese.			1		2		ese.	¼ h'r	¼ h'r	sm'h	se.	clear.
S. E. J. Spicer, New York. N. Y*	30.07	763.8	76	24.4		wsw.			3		5		wsw.	0	0			
Bk. E. L. Pettingill, N. 25° 46′, W. 145° 34′†	30.20	767.1				e.			6		8		ese.	sh'rs	sh'rs	r'gh	se.	cloudy.
S. Enoch Train, N. 45° 11′, W. 30° 21′*†	30.28	769.1				wnw.			2		2		nw.	4 h'r	4 h'r	sm'h		fine.
Bk. Essex, S. 35° 14′. E. 38° 43′*†	30.14	765.5	61	16.1		sw.			5		2		ssw.	3 h'r	3 h'r	hv'y	sw.	
Bk. Franklin, N. 39° 50′, W. 47° 50′*†	30.44	773.2				var.			2		5			3 h'r	3 h'r	sm'h		fair.
S. Grecian, Hong Kong, China*†	29.80	756.9	85	29.4		ese.			4		9		es	sq'lls	sq'lls			
Bk. Hattie G. McFarland, Philadelphia, Pa*†	30.21	767.3	77	25.0		sw.			3		2		w	0	0			clear.
S. Hedwig, Off Pirano, Austro-Hungary	29.96	760.9	79.2	26.2	84	s.			4		0			0	0	short	s.	fine.
Bk. Heinrich & Tonio. N. 39° 45′, W. 68° 24′*†	30.35	770.9	74	23.3		sw.			4		0			0	0	mod.	sw.	clear.
Bk. Horace Scudder, Port of Spain, Trinidad, W. I†	30.10	764.5	84	28.9		ese.			2		2		se.	0	0			blue sky.
S. Ivy, S. 12° 10′ W. 129° 18′†	30.20	767.1	75	23.9		ese.			6		1		se.	0	0	cross	sw.	clear.
Schr. James Slater, N. 15° 37′. W. 58° 12′*†	30.36	771.1	85	29.4		ene.			3		1			0	0	short	ene.	
Schr. Jennie N. Huddell, Hallowell, Maine†	30.15	765.8	76	24.4	86	wsw.			1		0			0	0			clear.
Bk. Johanne, N. 45° 20′, W. 37° 10′*†	30.15	765.8	63	17.2		w.			2		8		w.	5 h'r	5 h'r	mod.	s.	squally.
Schr. John L. Thomas, N. 34° 00′, W. 76° 00′*†	30.26	768.6				w.			3		0			0	0	light	sw.	clear.
Bg. John Wesley, St. Jago, Cuba, W. I†	29.94	760.5				ne.			3		2		e.	0	0			clear.
Bk. Joseph A. Ropes, S. 22° 42′, W. 36° 36′*†	30.32	770.1	71	21.7	85	ese.			4		7		ese.	2 h'r	2 h'r	mod.	se.	cloudy.
Bkt. Josephine, N. 26° 06′ W. 78° 20′†	30.17	766.3	86	30.0	65	ese.			4		0			0	0	sm'h		clear.
Bkt. Kryolith, N. 44° 20′, W. 60° 20′*†	29.96	761.0				wsw.			3							chop		clear.
Light House Tender, Laurel, Key West, Florida†	30.16	766.1	84	28.9		sse.			3		9		sse.	0	0			cloudy.
Bk. Liberia, N. 20° 47′, W. 53° 52′.*	30.12	765.0	78	25.6	90	ese.			5		4		ene.	0	0			
S. S. Madrid, N. 47° 55′, W. 20° 00′*†	30.22	767.6	62	16.7		ssw.					5		ssw.	5 h'r	5 h'r	short	ssw.	clearing.
S. S. Nebo, Genoa, Italy*†	29.90	759.4				ne.			4		0			0	0			clear.
S. Orealla, N. 34° 33′, W. 44° 09′*	30.19	766.8	79	26.1		sse.			1		1		se.	0	0	sm'h	nw.	clear.
S. Paramita, N. 13° 51′, W. 121° 27′†	29.80	756.9	82	27.8		nne.			4		2		ne.	0	0	short	n.	clear.
Bk. Sunbeam, N. 37° 55′, W. 71° 47′†	30.27	768.8	78	25.6	86	w.			2		2		w.	0	0	sm'h		clear
S. S. Sunbeam, Odessa, Russia	29.80	756.9	91	32.8	53	nw.			4		0							blue sky.
S. Sovereign of the Seas, S. 21° 58′, W. 39° 29′*†	30.20	767.1	72	22.2	85	se.			2-4		5		se.	2 h'r	2 h'r	long	se.	showery.
Bg. Teneriffe, Sagua la Grande, Cuba, W. I	30.04	763.0				e.			1									
Bk. Truro, N. 46° 12′, W. 54° 45′*†	29.89	759.2				sw.			4		0			0	0	sm'h		hazy.
U. S. F. C. S. S. FishHawk, Wood's Holl, Mass†	30.27	768.8	71	21.7	90	calm			0		9		calm	0	0			cloudy.
Schr. Viola Reppard, Baltimore, Md†	30.06	763.5	81	27.2		calm			0		0			0	0			clear.
Bk Wm. Wilcox, Buenos Ayres, Argentine Republic*†	30.42	772.7	64	17.8		e.			3		10			0	0			cloudy.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 27, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.15	765.8	80.8	27.1	71	w.			5		0			0	0	clear	Bouvier.
Algiers			29.94	760.4	81.0	27.2	57	n.			1		0			0	0	clear	Nicolas.
La Galle			30.13	765.2	78.8	26.0	64	ne.			2		4			0	0	cloudy	Fonfrède.
Tunis			30.11	764.7															Jacques.
Saida			30.13	765.3	90.3	32.4	23	sse.			1		0			0	0	clear	Perès.
Tebessa			30.12	765.1	80.2	26.8	40	nw.			2		0			0	0	clear	Derché.
Geriville					95.0	35.0	10	nnw.			3		0			0	0	clear	Louchamp.
Laghouat			30.23	767.8	102.2	39.0	37	w.			1		0			0	0	clear	Abraham.
Biskra			30.15	765.9	97.5	36.4	31	n.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.08	764.0	30.17	766.3	40.6	4.8	81	sse.	2	0.9			2			0.26	6.6	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.54	750.4	30.08	764.1	66.7	19.3	67	w.			2		10			0.055	1.4	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.31	744.5	30.07	763.7	62.6	17.0	50	nw.	4.3	1.9			10			0.276	7.0		Dr. Wierzbiski.
Eperies	29.14	740.1	29.98	761.5	74.7	23.7	59	calm			0		9 s			0	0		Julius Mikolik.
Gratz	28.83	732.2	30.04	762.9	70.5	21.4	68	nw.			3		9			0.854	21.7		Andreas Rosplini.
Hermannstadt	28.48	723.4	29.80	757.0	87.1	30.6	46	n.			3		8			0.024	0.6		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.82	732.0	30.16	766.1	54.9	12.7	91	wnw.			3		10			0.579	14.7	raining	The Staff.
Lemberg	28.99	736.4	29.93	760.2	76.6	24.8	40	se.			1		9			3.130	79.5		Dr. T. Stanecki.
Pola	29 86	758.5	29.97	761.2	75.6	24.2	51	e.			3		9			0	0		I. R. Hydrographic Office.
Szathmar	29.44	747.7	29.87	758.8	78.8	26.0	66	w.			1		6			1.555	39.5		Joseph Midlinszay, S. J.
Szegedin	29.67	753.5	29.93	760.3	73.4	23.0	50	s.			3		8			0	0	thunder	Karl Stancel.
Trieste	29.95	760.8	30.06	763 4	79.2	26.2	32	ne.			2		4			0	0		Royal Academy.
Vienna	29.39	746.4	30.09	764.2	65.1	18.4	59	w.			5		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.15	765.8	30.25	768.3	55.1	12.8	76	ssw.	14	6.3			10			0.010	0.3	raining	W. Boswell
Armagh, Observatory	30.00	762.0	30.23	767.8	60.3	15.7	85	s.	16	7.2			10					gloomy	S. Call.
Bidston, Liverpool Obs'y					57.3	14.1	77	sw.	9	4.0			10					raining	John Hartnup.
Bolton, Sharples	29.83	757.7	30.37	771.4	59.7	15.4	57	sse.	19	8.5			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.96	761.0	30.36	771.1	62.7	17.1	48	w.			2		10			0.28	7.1	overcast	McLandsborough & Pres-ton.
Bridgetown, Barbadoes	29.98	761.5	30.00	762.0	83.0	28.3	74	ne.			2		2					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			30.39	771.9	73.4	23.0	61	sw.			0.6		8					overcast	John McLaren.
Chatham, School M. E.	30.30	769.6	30.43	772.9	69.5	20.8	58	calm			0		7					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	30.22	767.6	30.45	773.4	64.0	17.8	69	s.			3		6					d clouds	The Staff.
Fort Napier, Natal	28.64	712.2	30.20	708.6	60.2	15.7	76	se.			1		8					overcast	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.62	752.3	29.85	758.2	86.0	30.0	72	nw.			2		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.13	765.3	30.19	766.8	70.6	24.8	81	ne.			3		9					gloomy	Cpl. O. Baldwin.
Glasgow, Observatory	30.04	763.0	30.24	768.1	57.8	14.3	69	s.			0		10					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.25	768.3	30.42	772.7	73.9	23.3	45	sw.			1		4					d. clouds	The Staff.
Guernsey	30.17	766.3	30.47	773.9	65.0	18.3	73	wnw.			1		2					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.39	771.9	30.43	772.9	69.6	20.9	56	sw.	9	4.0			8					d. clouds	The Staff.
Leicester, Museum	30.12	765.0	30.37	771 4	69.6	20.9	45	sw.			2		10					overcast	J. C. Smith.
Malta, Mediterranean	29.89	759 2	29.95	760.7	85.2	29.6	53	nw.			3		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.19	766.8	30.24	768.1	84.2	29.0	71	e.			3		3					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.88	758.9	30.39	771.9	66.0	18.9	58	s.			4		10					overcast	Warren Middleton.
Oxford, Radcliffe Obs'y	30.19	766.8	30.42	772.7	67.9	19.9	62	sw.			3		10					overcast	The Staff.
Plymouth	30.38	771.6	30.46	773.7	64.0	17.8	73	sw.			2		7					d. clouds	John Merrifield.
Sandwick Manse, Orkneys																			Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.72	754.9	29.78	756 4	98.2	36.8	36	ne.			1		0					misty	W. H. Lyne.
Sheffield	30.09	764.3	30.36	771.1	70.0	21.1	50	sw.			1		4			0.19	4.8	d clouds	W. F. Cooper.
Silloth Rectory	30.30	769.0	30.33	770.4	56.5	13.6	83	ssw.			3		10			0.270	6.9	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.39	771.9	59.9	15.5	50	w.	12	5.4			10					overcast	Rev. S. J. Perry.
Stratfield Turgiss	30.22	767.6	30.44	773.2	70.9	21.6	60	sw.			1		8					d. clouds.	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.42	772.7	30.43	772 9	68	20.0	74	sw.			4		10					raining	W. Newcombe.
Valencia, Observatory	30.21	767.3	30.24	768.1	60.1	15.6	96	ssw.	16	7.2			10			blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.86	758 4	29.90	759.4	66	18.9	76	w.	4	1.8		0	4 s		w.	0.160	4.1	clearing	H. J. Cundall, C. E.
Chatham, N. B*	29.91	759 7	29.97	761 2	62	16.7	67	n.	6	2.7		0	0			0.01	0.3	clear	G. A. Blair.
Father Point, Quebec*	30.01	762 2	30.04	763.0	55	12.8	74	nw.	5	2.2		2 c	0	calm		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.12	739.6	29.93	760.2	57	13.9	96	n.	10	4.5			10 s		n.	0.010	0.3	cloudy	James Stewart.
Halifax, N. S*	29.79	756.7	29.91	759.7	65	18.3	90	nw.	8	3.6			10 k		n.	0.210	5.3	cloudy	A. Allison.
Kingston, Ontario*	29.63	752.0	29.95	760.7	70	21.1	84	w.	2	0.9			10 k		nw.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.79	756.7	29.99	761.7	60	15.6	84	e.	6	2.7			10 n			0.51	13.0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.26	743.2	29.92	760.0	69	20.6	90	s.	3	1.3		2 cs	0	w.		0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.33	745.0	29.99	761.7	70	21.1	95	sw.	4	1.8		5 k	0	sw.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.38	746.2	30.00	762.0	67	19.4	97	w.	1	0.4		2 k	0	w.		0	0	clear	M. Payne.
Quebec, Quebec*	29.70	754.4	30.01	762.2	62	16.7	75	e.			5	3 cs	0	w.		0.11	2.8	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.42	747.3	29.87	758.7	61	16.1	87	se.	5	2.2			10 s		se.	0.28	7.1	threatening	W. H. McIntyre.
Saugeen, Ontario*	29.23	742.4	29.91	759.7	71	21.7	73	s.	9	4.0		hz.	hz.			0	0	hazy	
St. Andrews, N. B	29.90	759.4	29.95	760.7	62	16.7	86	nw.	2	0.9			10 n			0.66	16.8	cloudy	
Sydney, C. B*	29.84	757.9	29.90	759.4	59	15.0	84	n.	2	0.9			10 n			0.10	2.5	light rain	T. C. Hill, C. E
Toronto, Ontario*	29.62	752.3	29.98	761.5	69	20.6	81	w.	3	1.3		0	hz			0	0	hazy	Magnetic Observatory.
Yarmouth, N. S*	29.86	758.4	29.93	760.2	63	17.2	93	calm	0	0		10 k	0	w.		0	0	cloudy	Lt. F. E. Wilmot, R N
Sub-series.																			
Mount Forest	28.60	726.4	30.01	762.2	68.0	20.0	79	w.			3	3 cs	0	w.		0.117	3.0	clear	Wm. Wylie.
St. Johns, Newfoundland	29.98	761.5	30.23	767.8	65	18.3	84	sw.	2	0.9			10			0	0		John Delany.
Cape Colony.																		light haze	
Cape St. Francis Lt. House	30.38	771.6	30.41	772.4	61.0	16.1	94	e.	19.6	8.8		0	1 k			0	0		John Duthie.
Cape Town, C. G. H. Obs'y	30.22	767.6	30.26	768.6	66.0	18.9	56	sse.	8	3.6		4	10			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.71	754.7	29.74	755.3	79.9	26.6	89	se.	10.7	4.8		9 c; ck	0			0	0	covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.16	766.1	30.21	767.3	69.4	20.8	68	nne.	7	3			1						Oversergent Fischer.
Fanöe	30.26	768.6	30.28	769.1	64.2	17.9	77	wsw.			6		2						Overloerer Lauridsen
Godthaab, Greenland	29.36	745.7	29.40	746.8	41.7	5.4	89	nne.			4		3			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.51	749.6	29.56	750.7	54.3	12.4	86	s.			6		10					raining	A. O. Thorlacius.
Thorshavn	29.81	757.1	29.84	758.0	52.9	11.6	97	s.	18	8			10						Overloerer Bergh.
Vestervig	30.19	766.7	30.28	769.0	68.4	20.2	53	ese.			2		1						Loearer Oesterbol.
French.																			
Agen, Normal School	29.78	756.3	30.41	772.3	75.9	24.4	49	ene.			1	c	0	w.		0	0		M. Labroue, Director.
Alençon, Normal School	29.87	758.8	30.43	772.8	66.2	19	81	n.			2		k		s.	0	0		M. Nicot, Director.
Arras, Engineer School	30.21	767.2	30.40	773.7	65.3	18.5	69	ne.			1	ck	0	ne.		0	0		M. Fénéon, Command't.
Avignon, Normal School	30.12	765.0	30.20	767.0	74.5	23.6	39	n.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.93	760.2	30.48	774.2	64.8	18.2	47	e.			1		8		ne.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	30.23	767.8	30.50	774.6	65.7	18.7	50	n.			1		5		nne.	0	0	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.50	749.4	30.39	772.0	64.8	18.2	69	ne.			1	0	5 kn		ne.	0.20	5.	cloudy	M. Gobin, Director.
Bordeaux, Observatory	30.15	765.9	30.41	772.4	72.0	22.2	35	e.			1		1			0	0	Al. clear	M. Rayet, Director.
Bourges, Normal School	29.95	760.8	30.50	774.6	67.1	19.5	43	n.			1		k		n.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.25	768.3	30.49	774.4	71.6	22.0	62	sw.			2		1		sw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.43	773.0	30.51	774.9	69.6	20.9	50	e.			1		8		e.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch't	30.14	765.6	30.46	773.7	65.8	18.8	60	nw.			1		2		n.	0.110	2.8	slightly cld'y	M. Jadot, Director.
Charleville, Normal School	29.94	760.4	30.45	773.4	64.0	17.8	56	wsw.			1					0.12	3.		M. Grimard, Director.
Clermont-Ferrand Obs'y	29.08	738.5	30.41	772.5	66.2	19.0	46	ne.			2	0	2 k			0	0	slightly cl'dy	M. Allnard, Director.
Cluny, Normal School	29.60	751.8	30.43	772.8	63.7	17.6	61	w.			3		5		n.	0.012	0.3		M. de Villemontée, Dir.
Commercy, Normal School	29.61	752.0	30.47	774.0	62.4	16.9	72	nw.			1		kne	nw.	nw.	0.04	1.	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.63	701.9	30.05	763.3	80.2	26.8	10	ne.			2	0	0			0	0		M. Jeanginard, Director.
Gréasque, du Rhone	29.01	736.8	30.09	764.2	78.8	26	24	nw.			4		0			0	0	clear	M. Kina, Director.
Grenoble, Normal School	29.55	750.5	30.30	769.7	68.0	20	67	ne.			4	0	2 k		ne.	0	0	slightly cl'dy	M. Ablard, Director.
Guéret, Normal School	28.86	733.0	30.48	774.2	61.7	16.5	50	ne.			1		1		ne.	0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.21	767.4	30.49	774.4	70.9	21.6	48	w			3		5		w.	0	0	cloudy	M. Olhtrault, Director.
Lescar, Normal School	29.84	757.9	30.39	771.9	73.0	22.8	43	e.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.41	772.4	30.51	775.0	68.0	20.0	65	sw.			1		2		calm	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.36	745.7	30.42	772.6	64.6	18.1	45	nne.			2	0	2 n		n.	0	0	slightly cl'dy	M. André, Director.
Mans, Normal School	30.22	767.7	30.54	775.6	65.5	18.6	50	se.			1		5		n.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.84	758.0	30.10	764.6	77.7	25.4	29	wnw.			4		0			0	0		M. Stephan, Director.
Montlouis	25.15	638.7	29.99	761.7	64.4	18.0	30	w.	11.2	5.0			0			0	0	foggy	M. Cave, for Dr. Fines
Montpellier, Normal School	30.11	764.7	30.24	768.0	78.1	25.6	38	nnw.			4		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.66	753.4	30.45	773.4	63.7	17.6	68	wnw.			1		k		nw.	0.04	1.		M. Hasse, Director
Nantes, Observatory	30.35	770.8	30.51	774.9	74.1	23.4	57	se.			0-1	0	8 k; kn		ese.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.14	765.5	30.24	768.1	78.4	25.8	23	ne.	18.6	8.3			1			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.60	548.7			51.8	11.0		ne.			1		0			0	c	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.20	741.6	30.23	767.9	72.7	22.6	40	n.			1		2			0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.52	648.2			43.9	6.6	75	nne.			3	0	2 k			0.012	0.3	¼ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.53	775.4	30.56	776.2	73.8	23.2	100	ene.			2		2		e.	0	0	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.15	765.9	30.37	771.3	71.6	22	56	n.			1		5		e.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.24	717.2	30.35	770.9	67.1	19.5	35	n.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.50	774.6	30.54	775.8	68.0	20	70	nw.			1		5	s.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	30.16	766.1	30.34	770.5	68.0	20.0	46	ne.			1		3		n.	0	0		M. Renou, Director.
Toulouse, Observatory	29.72	755.0	30.46	773.6	73.2	22.9	34	n.			2		1		w.	0	0	clear	M. Baillaud, Director.
Tours	30.29	769.4	30.47	774.0	71.6	22.0	47	ene.			1		2		e.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.99	761.8	30.48	774.3	66.6	19.2	45	e.			2					0	0		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.21	767.4	30.50	774.8	66.7	19.3	54	nne.			1		6		nne.	inap.	inap.		M. Marié Davy, Director
German.																			
Ansbach	28.87	733.2	30.33	770.3	54.3	12.4	87	nw.			6		10	nw.		0.504	12.8		Prof. Jnedt.
Bamberg	29.37	746.0	30.23	767.9	59.0	15.0	84	nw.			5	0	9 n		w.	0.429	10.9	raining	Prof. Dr. Hoh.
Berlin	30.15	765.8	30.33	770.3	65.5	18.6	70	n.			2		10			1.539	39.1		Prof. Dr. Arndt.
Breslau	29.58	751.3	30.11	764.8	70.2	21.2	47	n.			1		10			0	0		Royal University Obs'y.
Carlsruhe	29.97	761.3	30.42	772.6	60.4	15.8	68	nw.			1		10	n.		0.008	0.2		Albert Senz.
Cassel	29.60	751.7	30.31	769.8	63.3	17.4	71	nw.			4		8	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	30.01	762.2	30.37	771.3	64.8	18.2	60	n.			2		9			0.083	2.1		Physical Society.
Friedrichshafen	28.96	735.5	30.41	772.3	55.0	12.8	85	w			2		10	w.		0.075	1.9	raining	Wilhelm, Chief Tel.
Hamburg	30.22	767.7	30.32	770.1	65.1	18.4	61	nnw.			5		6			0.579	14.7		E. Preller.
Kiel	30.26	768.7	30.28	769.1	67.1	19.5	54	nw.			4		4			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.78	756.5	30.17	766.2	59.7	15.4	90	n.			5		10	n.		2.055	52.2	prinkling	H. Leppig, Asst.
Magdeburg	30.06	763.4	30.24	768.1	64.2	17.9	74	nw.			1	0	9 ks		n.	1.291	32.8		Dr. Assmann.
Memel	30.09	764.2	30.13	765.4	65.3	18.5	83	n.			4	7 cs	0						Isermann.
Munich	28.48	723.3	30.30	771.1	52.3	11.3	93	w.			4		10	w.		0.748	19.0		Dr. C. Lang.
Neufahrwasser	30.15	765.7	30.16	766.1	68.2	20.1	66	n.			4		10			0	0		A. Lothes.
Neustadt, Palatinate	29.87	758.8	30.41	772.4	58.6	14.8	69	w.			2		10	nw.		0	0		Dicknether.
Stuttgart	29.13	747.5	30.33	770.4	56.7	13.7	79	w.			4		10			0.016	0.4		Prof. Dr. Schoder.
Wustrow	30.20	768.0	30.28	769.2	70.2	21.2	73	nnw.			3	0	0			0.059	1.5		Profs. Brandes & Reimer
Greek.																			
Athens	29.45	748.1			96.3	35.7		ne.			1.0		2			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.56	750.8	29.61	752.1	84.0	28.9	73	wsw.	32.0	14.3			8		w.	0	0	gloomy	
Deesa	29.11	739.4	29.58	751.3	83.0	28.3	69	sw.	11.9	5.3			10	ssw.		0	0	overcast	
Bombay	29.70	754.2	29.73	755.2	80.5	26.9	86	w.	15.0	6.7			9	w.	w.	0.35	8.9	d. clouds	
Poona, Yarrowda	27.89	708.3	29.75	755.7	74.1	23.4	73	w.	13.0	5.8			10		w.	0.15	3.8	drizzling	
Trichinopoly	29.48	748.8	29.70	755.8	89.9	32.2	43	wnw.	5.0	2.2			10			0	0	overcast	
Bellary	28.24	717.3	29.09	754.2	82.2	27.9	70	nw.	14.7	6.6			9	w.		0.05	1.3	gloomy	
Belgaum	27.20	692.4	29.82	757.5	69.8	21.0	91	wsw.	8.0	3.6			8	e.	sw.	0.13	3.3	showery	
Lahore	28.75	730.3	29.48	748.7	87.2	30.7	74	calm	2.4	1.1			6		e.	0.17	4.3	d. clouds	
Roorkee	28.01	720.6	29.48	748.9	85.6	30.3	80	s.	1.1	0.5			8			0.67	17.0		
Agra	28.94	735.0	29.49	749.1	83.2	28.4	85	e.	3.3	1.5			10		e.	0.06	1.5	overcast	
Nagpur	28.57	725.9	29.00	751.8	82.7	28.2	71	calm	3.0	1.3			8		w.	0	0	d. clouds	
Jubbulpore	28.27	718.0	29.02	752.3	79.0	26.1	74	w.	4.6	2.1			7			0	0	d. clouds	
Lucknow	29.16	740.6	29.53	750.0	83.1	28.4	77	ssw.	2.3	1.0			10	ene.		0	0	overcast	
Allahabad	29.21	742.0	29.52	749.8	85.7	29.8	74	sw.	2.3	1.0			1			0	0	d. clouds	
Patna	29.33	745.0	29.51	749.6	89.2	31.8	65	nnw.	2.9	1.3			6	nnw.	nnw.	0	0	d. clouds	
Hazaribagh	27.54	699.6	29.53	750.0	79.3	26.3	76	nw.	7.3	3.3			10		nw.	0.06	1.5	thund'rst'm	
Cuttack	29.45	748.0	29.53	750.0	83.2	28.4	81	w.	1.0	0.4			7					drizzling	
Calcutta, Alipore	29.48	748.7	29.50	749.2	79.5	26.4	96	ssw.	1.0	0.4			10		se.	0.99	25.2	overcast	
Dhubri	29.39	746.4	29.50	749.3	86.6	30.3	82	calm	1.8	0.8			10			0.08	2.0	gloomy	
Chittagong	29.43	747.0	29.52	749.8	82.7	28.2	84	sw.	3.8	1.7			8			0	c	d. clouds	
Sibsagar	29.16	740.6	29.48	748.9	87.2	30.7	78	ne.	1.0	0.4			10	sw.	sw.	0.60	15.2	d. clouds	
Jeypore	28.13	714.4	29.56	750.9	77.2	25.1	89	nw.	10.6	4.7			10		nw.	0.13	3.3	overcast	
Zanzibar, Africa	30.09	764.3			79.1	26.2	74	ssw.	8.7	3.9			7		sse.	0	0	threatening	
Italian.																			
Udine	29.63	752.5	30.02	762.4	77.9	25.5	53	calm	0	0			3			0.953	24.2		Prof. Giovanni Cloelig.
Milan	29.58	751.3	30.07	763.8	80.2	26.8	15	n.	9.8	4.4			3	nnw.		0	0		Prof. Schiaparelli.
Padua	29.91	759.7	30.02	762.4	78.1	25.6	23	nnw.	4.3	1.9			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.21	741.9	30.08	763.9	79.0	26.1	18	sw.	2.5	1.1			0			0	0		Prof. P. F. Denza.
Genoa	29.86	758.5	30.05	763.2	81.0	27.0	19	n.	9.4	4.2			0			0	0		Prof. G. M. Garibaldi.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Mondovi	28.24	717.3	30.08	763.9	73.0	22.8	23	wnw.			4		0			0	0		Prof. D. C. Bruno.
Pesaro	29.95	760.6	29.99	761.8	74.7	23.7	57	nw.	14.3	6.4			6			0.374	9.5		Prof. Luigi Guidi.
Florence	29.75	755.6	29.98	761.6	82.4	28.0	24	n.			6		2	n.		0	0		Prof. Costantino Pitt'er.
Leghorn	29.87	758.6	29.95	760.7	78.4	25.8	63	wnw.	4.3	1.9			3			0	0		Prof. P. Monte.
Rome	29.76	756.0	29.93	760.3	82.8	28.2	47	wsw.	8.1	3.6			3			0	0		Prof. P. S. Ferrari.
Lecce	29.63	752 6	29.87	758.7	87.8	31.0	27	ne.	11.2	5.0			0			0	0		Prof. C. de Giorgi.
Cosenza	29.08	738.7	29.93	760.2	87.4	30.8	73	wsw.	4.9	2.2			0			0	0		Prof. D. Conti.
Cagliari	29.85	758.1	30.03	762.8	79.0	26.1	34	wnw.			6		0			0	0		Prof. A. Pacinotti.
Palermo	29.75	755.6	29.99	761.7	86.9	30.5	27	wsw.	11.9	5.3			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.87	758.6	29.91	759.7	83.1	28.4	56	nne.	12.5	5.6			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.46	748.3	29.97	761.2	79.5	26 4	37	s.	5.6	2.5			2	nnw.		0	0		Prof. T. Brioschi.
Stelvio	22.26	565.4			35.4	1.9	69	e.			4		10			0	0	covered	Prof. P. F. Denza.
Valdobbia	22.44	570.0			50.5	10.3	53	ne.			2		3			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.71	754.0	29.72	754.9	70.8	21.6	96	calm	0	0			8			0	0	cloudy	
Hiroshima, I. M. Obs'y					82.0	27.8	86	w.	0.7	0.3		0	0			0	0	clear	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.62	752.3	29.78	756.4	84	28.9	85	se.	2.4	1.1		9 ck;s		w.		0	0	cloudy	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.63	752.6	29.82	757.5	80.0	26.7	90	s.	2.1	0.9		8cs;ck	2 s			0	0	cloudy	S. Takehayashi.
Nemuro	29.72	754.9	29.78	756.4	67.9	19.9	84	e.	3.0	1.3		0	1			0	0	clear	
Niigata	29.77	756.1	29.81	757.2	77.3	25.2	89	w.	4.6	2.1		0	0			0	0	clear	M. Morita.
Nobiru	29.74	755.3	29.75	755.7	77.8	25.4	84	nnw.	6.0	2.7		0	0			0	0	clear	H. Midzushina.
Osaka	29.76	755.9	29.77	756.1	83.0	28.3	80	wsw.	5.8	2.6		0	3 ck;s			0	0	clear	
Supporo					70.5	21.4	91	calm	0	0						0	0	clear	
Tokei Obs'y, Yeddo	29.69	754.1	29.76	755.9	79.0	26.4	88	s.	8.2	3.7		0	0			0	0	clear	The Staff.
Wakayama	29.75	755.6	29.80	756.9	81.5	27.5	76	s.	6.8	3.0		0	0			0	0	clear	Y. Kuwamurea.
MAURITIUS.																			
Mauritius Observatory	30.07	763.8	30.26	768.6	70.0	21.1	65	ese.	18.5	8.3		0	4 k;ks;n		ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.76	603.5	29.98	761.5	56.7	13.4	98	calm	0	0		2 ck	0	s.		0.315	8.0	clear	Prof. Vicente Fernandez.
Leon	24.37	619 0	30.06	763.5	56.8	13.8	88	nnw.			1	5 c	0	sw.		0.016	0.4	½ cloudy	Prof. M. Leal.
Mazatlan	29.74	755.4	30.00	761.9	76.0	24.4	84	ene.	5.3	2.3		0	8 n		e.	0.197	5.0	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.19	588.9	30.24	768.1	53.6	12.0	86	calm	0	0		0	9 ck			0.051	1.3	cloudy	The Staff.
Morelia	24.30	617.3	30.36	771.2	59.5	15.3	68	e.			3	1	0	s.		0	0	fine	M. Tena, M. D.
Orizaba	26.15	664.3	30.07	763 7	61.0	16.1	85	e.	1.7	0.8		2	0	e.		0	0	foggy	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.01	609.8	29.99	761.8	58.3	14.7	91	calm			0	1 c	1 s	ne.	ne.	0	0	clear	M. V. de Leon, M. E
Puebla, Catholic Institute	23.45	595.6	30.19	766.7	53.6	12.0	89	calm	0	0		0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi	24.28	616.0	30.27	768.9	62.0	16.7	67	se.					10		e.	0	0	covered	G. Barroeta, M. D.
Zacatecas	22.67	575.8	30.28?	767.5?	57.8	14.3	74	e.	3.4	1.5		4 s	0			0.91?	2.3?	½ cloudy	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.49	774.4	30.49	774.4	64.2	17.9		w.			3					0.059	1.5		
Groningen	30.35	770.9	30.41	772.3	62 6	17.0		n.			1					0.067	1.7		
Helder	30.44	773.2	30.44	773.2	59.4	15.2		nw.			1					0	0		
Hellevoetsluis	30.47	774.0	30.47	774.0	64.4	18.0	61	w.			1					0.047	1.2		
Utrecht	30.41	772.5	30.46	773.7	65.7	18.7	59	wnw.			2		8			0	0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.21	767.2	30.27	768.8	65.1	18.4	59	nnw.	4	2			2			0	0		
Brono	30.24	768.2	30.28	769.2	57.6	14.2	55	w.	4	2			1			0	0		
Christiania	30.12	765.0	30.26	768.6	66.4	19.1	48	s.	9	4			2			0	0		
Gjæsvær	30.14	765.6	30.17	766.2	53.1	11.7		w.			6		10						
Lodingen	30.20	767.1	30.25	768.3	54.7	12.6	63	sw.			2		8			0	0		
PORTUGUESE.																			
Angra, Azores					74.5	23.6	91	e.	7.4	3.3			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.17	741.0	30.11	764.7	95.0	35.0	25	ese.	0.7	0.3			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.02	762.6	30.11	764.8	82.4	28.0	37	sw.	8.7	3.9			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.87	758.6	30.21	767 3	87.1	30.6	26	e.	5.6	2.5			0			0	0		The Staff.
Ponta Delgada, Azores	30.35	770.8	30.42	772 0	70.3	24.6	68	ne.	16.1	7.2			4	wnw.		0	0		
Saint Paul de Loando	29.89	759.2	30.10	764.4	74.8	23.8	74	wnw.	0.7	0.3			1	sse.		0	0		
Serra da Estrella	25.61	650.5	30.17	766.4	70.3	21.3	33	e.	3.1	1.4			0			0	0		
RUSSIAN.																			
Akmolinski	28.79	731.2	29.83	757.6	67.1	19.5	48	n.	13	6		0	4 k			0	0		Major K. Lasarew.
Archangel	29.84	757.9	29.86	758.4	83.3	28.5	63	se.	9	4		0	4 ks			0.134	3.4		Capt. Sselilwerstow.
Astrakhan	30.04	763.0	29.96	760.9	86.9	30.5	58	ese.	11	5			9 s			0	0		Capt. Wisganow.
Barnaul	29.22	742.2	29.71	754.7	53.6	12.0	71	nw.	9	4			10			0.122	3.1		Meteorological Obs'y.
Dorpat	29.75	755.6	29.98	761.5	72.0	22.2	59	n.	4	2		6 ck	0			0	0		Observatory.
Ekaterinburg	29.18	741.2	30.10	764.6	79 2	26.2	27	nw.	9	4		1 c	0			0	0	light clouds.	Meteorological Obs'y.
Irkutsk	27.89	708 3	29.43	747.6	71.1	21.7	49	se.	2	1		0	1 ks			0.020	0.5		
Kasan	29.83	757.7	30.08	764.1	89.1	31.7	40	sw.	2	1		0	3 k			0	0		Observatory.
Kertch	29.77	756.1	29.79	756.6	85.5	29.7	63	ne.	9	4		3 cs	0			0	0		Lagorio & Sastyrez.
Kieff	29.21	742.0	29.80	756.8	91.2	32 9	28	n.	2	1		ck;cs	2 ks			0	0	light clouds	Observatory.
Lugan	29.69	754.1	29.88	759 0	90.7	32.6	37	ne.	9	4			8			0	0		Meteorological Obs'y.
Moscow	29.45	747.9	29.87	758.8	93.7	34.3	31	sse.	4	2			1 k						Meteorological Obs'y.
Nikolaiev	29.78	756.4	29.85	758.2	100.4	38.0	46	calm	0	0		0	2 k			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.35	745.6	29.50	749.2	80.4	26.9	83	calm	0	0		0	0			0.063	1.6		Physical Observatory.
St. Petersburg	29.88	759.0	29.90	759.4	69.8	21.0	80	wnw.	16	7		0	7 kn			inap.	inap.		Central Physical Obs'y.
Semipalatinsk	29.11	739.3	29.74	755.5	63.7	17.6	55	nw.	13	6			8			0	0		Major Lasarew
Tashkend, Laboratory	28.07	712.9	29.52	749.7	88.3	31.3	49	calm	0	0			8			0	0	light clouds	Teich, A. M.
Tiflis	28.47	723.2	29.78	759.5	95.9	35.5	14	se.	13	6		1 c	0			0	0		Physical Observatory.
Vladivostock	29.53	750.1	29.60	751.8	73.8	23.2	91	e.	4	2		0	0						
Warsaw	29.05	753 2	30.06	763.6	68.9	20.5	67	nne.	4	2			10 ks					heavy cl'ds.	Astronomical Obs y.
Wilna	29.60	751.8	30.00	762.0	72.0	22.2	69	nw.	4	2			9			0.043	1.1		Berg, Assistant.
Yeniseisk	29.34	745.2	29.62	752.3	52.0	11.1	100	nne.	2	1			10			1.276	32.4	raining	M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.15	765.7	30.25	768.3	80.2	26.8	56	sw.	5.4	2.4			0						Antonio Rave, Director.
Bilbao, Met. Obs'y	30.35	770.9	30.41	772.4	79.2	26.2	58	se.	1.3	0.6		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.39	695.6	30.27	768.8	69.8	21.0	37	n.	11.9	5.3			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.05	712.4	30.16	766.0	86.4	30.2	47	e.	4.9	2.2		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director
Santiago, Met. Obs'y	29.37	745.9	30.24	768.0	75.9	24.4	48	ne.	13.6	6.1			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.																			Benito Vines, S. J.
Manilla, Philippine Islands	29.62	752.3	29.67	753.7	76.6	24.8	90	sw.	8.8	3.9			10 n		wnw.	0.476	12.1	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.07	763.7	30.17	766.1	83.7	28.7	49	se.	31.4	14.0		0	2		se.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.03	762.8	30.12	765.1	77.7	25.4	80	se.	0	0		4 k	4 kn	se.	se.	0.728	18.5	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.51	749.5	29.65	753.1	78.8	26.0	94	nw.	2.3	1.0		3 cs	7 kn	e.	n.	0.69	17.5	rainy	José L. Yrastorza.
SWEDISH																			
Haparanda	29.95	760.7	29.99	761.7	63.3	17.4	88	n.			4		10			0	0		
Umea	30.06	763.6	30.11	764.9	63.7	17.6	56	n.			9		3			0	0		
Hernosand	29.93?	760.2?	29.98?	761.5?	64.9	18.3	43	n.			6		0			0	0		
Stockholm	30.02	762.6	30.20	767.1	65.5	18.6	88	n.			4		0			0.039	1.0		
Wisby	30.08	764.1	30.14	765.6	63.3	17.4	72	n.			4		0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Sub-series.																			
Upsala	30.11	764.8	30.20	767.0	63.7	17.6	50	n.	10.3	4.6			1			0	0		S. G. Fineman.
SWISS.																			
Geneva	28.95	735.2	30.34	770.5	66.0	18.9	40	nne.			5					0	0	clouds	The Observatory
SCOTTISH.																			
Monach Lt			30.00	762.0	56	13.3	94	s.			6		10			0.1	3.	raining	J. Youngclause.
North Unst			30.26	768.6				s.			6		10						
TURKISH.																			
Constantinople			29.85	758.1	91.0	32.8	43	n.	7	3.0			0			0	0		The Observatory.
Valona			30.02	762.5	90.0	32.2		s.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.74	755.4	88.2	31.2	58	sw.			2	0	4 ks		w.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.93	760.2	30.01	762.2	79	26.1	62	w.	2	0.9		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.25	742.9	29.89	759.2	70	21.1	84	s.	4	1.8		0	2 ks		sw.	0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.15	638.8	29.89	759.2	61	16.1	100	ne.	3	1.3			10 s		calm	1.78	45.2	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.16	689.9	29.89	759.2	51	10.6	74	ne.	10	4.5		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.08	738.6	30.23	767.8	75.0	23.9	85	nw.	2	0.9		1 k	0			0.02	0.5	clear	H. Hall.
Atlantic City, New Jersey	30.01	762.2	30.02	762.5	79	26.1	82	sw.	4	1.8		5 k	4 s	sw.	calm	0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.05	763.3	30.24	768.1	76.0	24.4	90	calm	0	0		0	0			0.13	3.3	clear	John Healy.
Baltimore, Maryland	30.06	763.5	30.11	764.8	81	27.2	67	nw.	5	2.2		0	9 ks		w.	0	0	cloudy	Robert Seybolt.
Barnegat, New Jersey	30.00	762.0	30.02	762.5	77.5	25.3	86	w.	8	3.6		7 ck	sk.	w.		0	0	fair	G. A. Hill.
Bennett, Fort, Dakota	28.42	721.9	29.96	761.0	53	11.7	80	nw.	1	0.4		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.18	690.4	29.89	759.2	54	12.2	57	nw.	3	1.3		1 c	0			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	29.26	743.2	29.28	743.7	48.5	9.2		e.	14	6.3			10 ks			0.47	11.9	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.28	718.3	30.00	762.0	62	16.7	72	nw.	4	1.8		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.97	761.2	30.00	762.0	76.0	24.4	74	w.	8	3.6		2 k	hz.			0	0	clear	J. T. Elker.
Boise City, Idaho	27.22	691.4	29.94	760.5	63	17.2	54	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.81	757.2	29.96	761.0	76.0	24.4	58	w.	4	1.8		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.03	762.7	74.6	23.7	90	calm	0	0		0	4 ks		calm	0.15	3.8	fair	M. McCarty.
Buffalo, New York	29.29	744.0	30.02	762.5	73.6	23.1	78	sw.	12	5.4		1 ck	sk.	sw.		0	0	clear	Wm. Finn.
Buford, Fort, Dakota	28.15	715.0	30.09	764.3	51	10.6	74	ne.	1	0.4		7 cs	0	calm		0	0	fair	A. H. Bell.
Burlington, Vermont	29.69	754.1	29.97	761.2	66.5	19.2	89	n.	5	2.2			10 s		n.	0	0	cloudy	G. C. Schneffer.
Cairo, Illinois	29.77	756.1	30.16	766.1	75.8	24.3	84	calm	0	0		0	8 s			0	0	cloudy	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.28	692.9	29.88	758.9	73	22.8	82	se.			1		9 ks			0.19	4.8	cloudy	J. T. Fitzgerald.
Cape Henry, Virginia	30.10	764.5	30.12	765.0	79	26.1	82	s.	12	5.4		4 cs	hz.			0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.03	762.7	30.06	763.5	73.8	23.2	90	w.	9	4.0			10 s		w.	0	0	cloudy	W. E. Smith.
Cape Mendocino	29.51	749.5						n.	30	13.4			10 ks		n.	0	0	cloudy	J. R. Williams.
Cedar Keys, Florida	30.19	766.8	30.21	767.3	80	26.7	79	e.	5	2.2		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.28	743.7	30.07	763.8	69.5	20.8	75	sw.	8	3.6		0	hz.			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.15	765.8	30.20	767.1	82	27.8	88	sw.	5	2.2		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.35	745.5	30.18	766.6	79.4	26.3	77	w.	2	0.9		0	hz.			0.04	1.0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.41	747.0	30.21	767.3	70.0	21.1	97	calm	0	0			fg.			0.31	7.9	dense fog	B. L. Goulding.
Cheyenne, Wyoming	24.17	613.9	29.86	758.4	55.0	12.8	93	sw.	1	0.4			fg.			0	0	dense fog	E. McGovern.
Chicago, Illinois	29.31	744.5	30.00	762.0	74.7	23.7	59	sw.	8	3.6		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.07	763.8	30.09	764.3	75	23.9	76	nw.	14	6.3		4 k	0			0	0	fair	V. P. Temple.
Cincinnati, Ohio	29.50	749.3	30.14	765.5	75.0	23.9	71	e.	3	1.3		0	0			0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.36	745.7	30.08	764.0	74.2	23.4	70	sw.	10	4.5		1 c	0	w.		0.02	0.5	clear	J. B. Newlin.
Coleman City, Texas	28.31	719.1	30.07	763.8	65	18.3	93	se.	1	0.4		3 c	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.26	743.2	30.10	764.5	70	21.1	84	sw.	4	1.8		0	7 ks;s		sw.	0	0	fair	D. Cuthbertson.
Concho, Texas	28.18	715.8	30.06	763.5	65	18.3	84	calm	0	0		3 c	0			0	0	fair	W. W. McConihe.
Custer, Fort, Montana	26.86	682.2	29.88	758.9	54	12.2	64	calm	0	0		0	0			0	0	clear	V. Verge.
Davenport, Iowa	29.37	746.0	30.00	762.0	74	23.3	76	sw.	7	3.1		1 cs	7 k	calm	sw.	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.24	641.1	29.88	758.9	69	20.6	59	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.31	719.1	30.02	762.5	61.0	16.1	70	sw.	4	1.8		0	9 s		sw.	0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.50	647.7	29.92	760.0	53.0	11.7	77	s.	4	1.8		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					75	23.9	52	s.	5	2.2		0	4 s			0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	30.04	763.0	30.06	763.5	70	24.4	90	w.	9	4.0		6ck;cs	4 s	w.	w.	0	0	cloudy	A. Schneider.
Denison, Texas	29.32	744.7	30.10	764.5	71.0	21.7	82	calm	0	0		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.84	630.9	29.85	758.2	61.0	16.1	56	s.	4	1.8		3 ck	0	sw.		0	0	clear	F. M. Neal.
Des Moines, Iowa	29.12	739.6	30.00	762.0	75	23.9	69	w.	6	2.7			10 s		w.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.33	745.0	30.02	762.5	79.2	26.2	54	s.	6	2.7		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.49	698.2	29.99	761.7	66.0	18.9	90	s.	10	4.5		0	8 s		s.	0.25	6.3	cloudy	W. M. Mattingly.
Dubuque, Iowa	29.28	743.7	29.97	761.2	72.3	22.4	73	sw.	1	0.4		6 ck;k	1 s	w.		inap.	inap.	fair	J. Harvey Smith.
Duluth, Minnesota	29.14	740.1	29.86	758.4	66	18.9	73	w.	12	5.4		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.28	743.7	30.07	763.8	72.0	22.2	82	se.	4	1.8		1 c	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.28	642.1	29.83	757.7	50	13.3	60	sw.	5	2.2		4 cs	2 ks	s.	s.	0	0	fair	J. M. Clifford.
Eastport, Maine	29.89	759.2	29.95	760.7	62.0	16.7	78	n.	4	1.8			10 s		n.	1.55	39.4	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.33	694.2	29.97	761.2	66	18.9	70	calm	0	0			10 s			0.64	16.3	cloudy	W. J. Gundall.
El Paso, Texas	26.33	668.8	29.93	760.2	70	21.1	90	nw.	6	2.7			10 s		nw.	0	0	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.33	745.0	30.04	763.0	75	23.9	76	sw.	2	0.9		3 k	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.16	740.7	29.80	756.9	71	21.7	90	sw.	2	0.9			10 s		sw.	0	0	cloudy	C. Dill.
Fredericksburg, Texas	28.36	720.3	30.06	763.5	70	21.1	76	sw.	2	0.9		3 c	0			0	0	clear	H. S. Miles.
Galveston, Texas	30.03	762.7	30.08	764.0	81	27.2	62	sw.	9	4.0		2 c	3 ks	sw.	s.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.31	744.5	29.96	761.0	75.0	23.9	71	s.	16	7.2		2 k	2 s	sw.	sw.	0	0	fair	W. A. Reid.
Grant, Fort, Arizona	25.33	643.4	29.90	759.4	65.9	18.8	97	s.	4	1.8			10 s			0.64	16.3	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.15	765.8	30.17	766.3	80.0	26.7	88	nw.	16	7.2		hz.	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.80	655.3	29.86	758.4	60	15.6	46	sw.	2	0.9		4 k	0			0	0	fair	S. Wheaton.
Henrietta, Texas	29.13	739.9	30.11	764.8	75.0	23.9	76	se.	4	1.8		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.67	728.2	29.99	761.7	53.1	11.7	83	nw.	1	0.4		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.32	744.7	30.09	764.3	75	23.9	76	s.	2	0.9		0	hz.			0	0	clear	O. Schutze
Indianola, Texas	30.03	762.7	30.06	763.5	76.4	24.7	85	calm	0	0		5 cs	3 ks	n.		0.47	11.9	cloudy	I. A. Reed.
Jacksboro, Texas	28.94	735.1	30.06	763.5	70	21.1	84	se.	1	0.4		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.18	766.6	30.22	767.6	82	27.8	82	calm	0	0		0	0			0.03	0.8	clear	J. W. Smith.
Keogh, Fort, Montana	27.54	699.5	29.95	760.7	55	12.8	64	ne.	6	2.7		3 c	0	ne.		0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.39	746.5	30.02	762.5	76.0	24.4	74	sw.	8	3.6		0	0			0	0	clear	F. Z. Gosewisch
Key West, Florida	30.11	764.8	30.13	765.3	85.0	29.4	72	e.	5	2.2		4 c	3 s	e.		0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.13	765.3	30.15	765.8	80.0	26.7	82	w	14	6.3		3 c	0			0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.21	741.9	30.21	767.3	69.6	20.9	100	e.	2	0.9			10s;fg		sw.	0.14	3.6	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.17	740.9	29.92	760.0	73	22.8	76	sw.	2	0.9			10 s			0.11	2.8	cloudy	S. C. Emery
La Mesilla, New Mexico	26.19	665.2	29.93	760.2	65.5	18.6	85	calm	0	0			10 n		n.	0.05	1.3	light rain	N. D. Lane.
Leavenworth, Kansas	29.20	741.7	30.06	763.5	70	21.1	70	calm	0	0		2 k	0			c	0	clear	A. W. Browne.
Lewiston, Idaho	29.14	740.1	29.95	760.7	69.5	20.8	52	nw.	10	4.5		0	5 s		s.	0	0	fair	W. Bell.
Little Rock, Arkansas	29.82	757.4	30.13	765.3	75	23.9	85	calm	0	0		0	9 s			0	0	cloudy	W. U. Simons.
Los Angeles, California	29.61	752.1	30.00	762.0	58.2	14.6	86	e.	2	0.9			10 s			0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.57	751.1	30.12	765.0	75	23.9	76	s.	4	1.8		5 cs	sk.			0	0	fair	H. C. Smyth.
Lynchburg, Virginia	29.47	748.5	30.14	765.5	79.5	26.7	72	sw.	1	0.4		6 c;cs	2 s			inap.	inap.	cloudy	W. R. Bushby.
Macon, Fort, North Carolina	30.16	766.1	30.17	766.3	79	26.1	82	w.	11	4.9		1 cs	hz.			0	0	clear	F. P. Chaffee.
Madison, Wisconsin	28.97	735.8	29.95	760.7	72	22.2	82	sw.	6	2.7		5 cs	2 ks	w.	w.	0.01	0.3	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.65	651.5			54	12.2	28	se.	8	3.6		0	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.87	707.9	30.07	763.8	68	20.0	76	sw.	6	2.7		3 c	0			0	0	fair	J. E. Thatcher.
Marquette, Michigan	29.10	739.1	29.81	757.2	67	19.4	90	nw.	5	2.2			10 s		w.	0.04	1.0	cloudy	J. Gilligan.
Memphis, Tennessee	29.81	757.2	30.14	765.5	76	24.4	85	se.	4	1.8		1 cs	8 ks		se.	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.25	742.9	29.98	761.5	73	22.8	71	w.	12	5.4		0	7 ks			0	0	fair	W. Line.

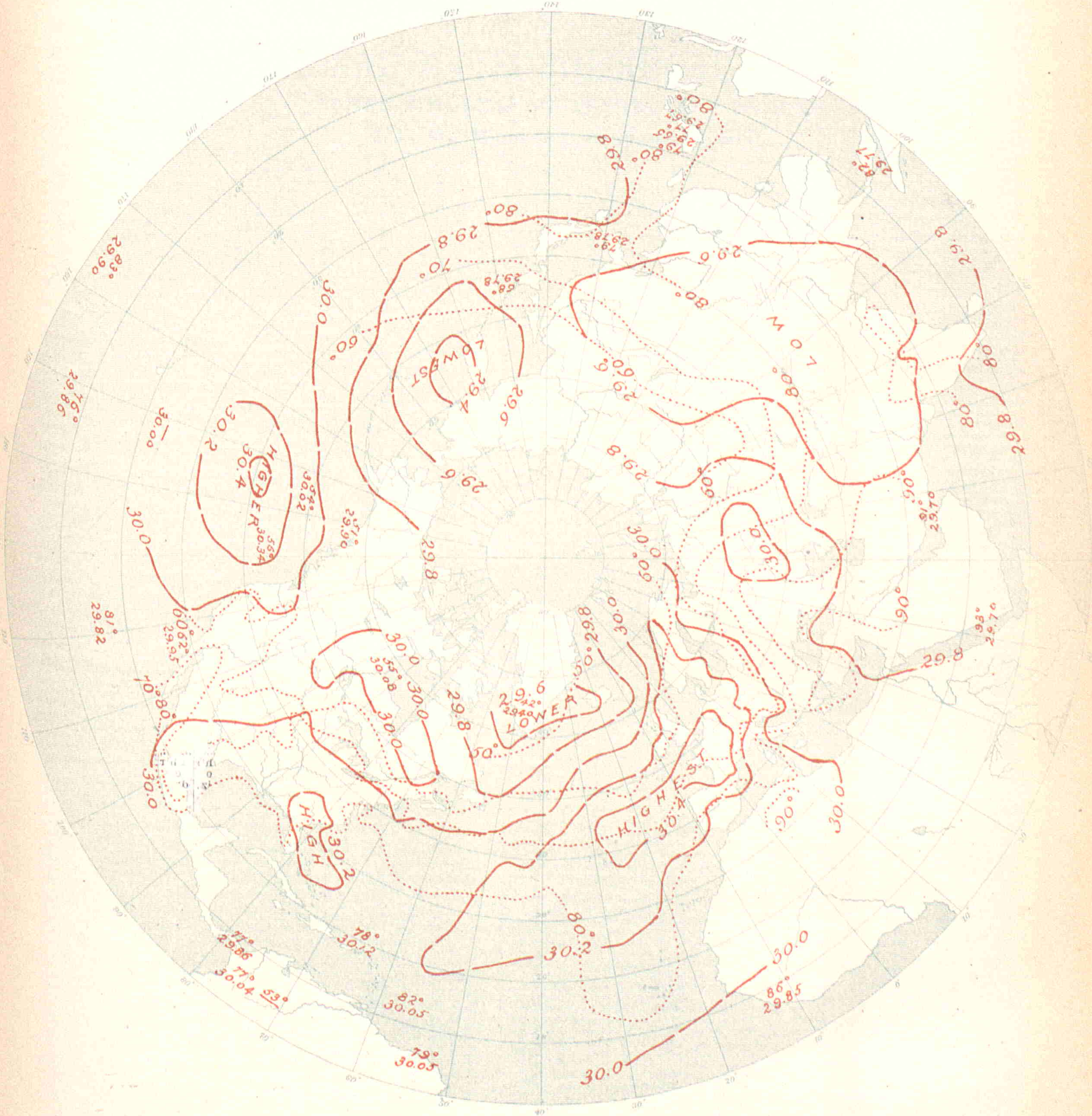
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.68	677.7	29.87	758.7	55	12.8	74	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.13	765.3	30.17	766.3	77	25.0	97	ne.	3	1.3	.....	.....	10 s	.....	ne.	0	0	cloudy	C. A. Read.
Montgomery, Alabama	29.98	761.5	30.20	767.1	76.4	24.7	89	se.	2	0.9	.....	1 ck	2 ks	.....	.....	0.03	0.8	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.00	736.6	29.96	761.0	57	13.9	74	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.10	740.7	30.16	766.1	75.0	23.9	79	calm	0	0	.....	0	7 s	.....	w.	0	0	fair	J. C. Sprigg, jr.
Mt. Washington, N. H	23.89	606.8	29.96	761.0	48.5	9.2	96	nw.	45	20.1	.....	.....	fg.	.....	nw.	0	0	dense fog	J. G. Linsley
Nashville, Tennessee	29.64	752.8	30.16	766.1	74.0	23.3	84	calm	0	0	.....	0	7 ks	.....	sw.	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.90	759.4	30.02	762.5	75	23.9	71	sw.	1	0.4	.....	4 ck.	sk.	sw.	.....	0	0	fair	J. H. Sherman.
New London, Connecticut	29.95	760.7	30.00	762.0	77	25.0	74	calm	0	0	.....	7 k	0	.....	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.09	764.3	30.14	765.5	76.5	24.7	84	s.	1	0.4	.....	0	sk.	.....	.....	0.08	2.0	clear	L. Dunne.
Newport, Rhode Island	29.95	760.7	30.00	762.0	75.8	24.3	74	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. McGillivray.
New York, New York	29.86	758.4	30.03	762.7	76	24.4	74	w.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.10	764.5	30.13	765.3	83	28.3	80	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	H. L. Kemp.
North Platte, Nebraska	27.12	688.8	29.92	760.0	67.6	19.8	74	ne.	5	2.2	.....	0	8 s	.....	.....	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.07	763.8	30.11	764.8	55.0	12.8	86	s.	4	1.8	.....	10 k	0	w.	.....	0.18	4.6	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.74	755.4	29.76	755.9	40.8	4.9	100	nw.	6	2.7	.....	.....	10 n	.....	.....	0.07	1.8	light rain	P. H. Ray.
Omaha, Nebraska	28.88	733.5	30.01	762.2	74.6	23.7	83	n.	2	0.9	.....	3 cs	6 s	sw.	n.	0	0	cloudy	A. Pollak.
Oswego, New York	29.66	753.4	29.98	761.5	76.0	24.4	69	w.	10	4.5	.....	5 k	hz.	w.	.....	0	0	fair	S. W. Beall.
Palestine, Texas	29.57	751.1	30.11	764.8	71.0	21.7	84	e.	6	2.7	.....	2 cs	0	s.	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.14	765.5	30.18	766.6	76.1	24.5	100	nw.	4	1.8	.....	.....	10 s	.....	s.	0.14	3.6	cloudy	M. McGauran.
Philadelphia, Pa	29.98	761.5	30.08	764.0	81.5	27.5	62	nw.	5	2.2	.....	6e;ck	hz.	nw.	.....	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	18.05	458.5	29.83	757.7	32	0.0	85	se.	6	2.7	.....	0	4 s;hz	.....	se.	0.05	1.3	fair	L. M. Dey.
Pioche, Nevada	24.12	612.6	29.85	758.2	64.7	18.2	48	s.	6	2.7	.....	6 k	0	s.	.....	trap.	trap.	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	29.31	744.5	30.10	764.5	74.4	23.6	76	sw.	4	1.8	.....	7 k	0	w	.....	0	0	fair	J. H. Bryce.
Poplar River, Montana	27.98	710.7	.....	.....	.....	.....	.....	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.14	765.5	30.15	765.8	78.1	25.6	97	se.	4	1.8	.....	0	1 k	.....	se.	1.68	42.7	clear	M. Hermann.
Port Huron, Michigan	29.32	744.7	29.98	761.5	71.0	21.7	79	sw.	7	3.1	.....	0	7 ks	.....	sw.	0	0	fair	W. O. Bailey.
Portland, Maine	29.88	758.9	29.93	760.2	74	23.3	70	ne.	2	0.9	.....	4 c;hz	0	nw.	.....	0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.08	764.0	30.15	765.8	57.0	13.9	80	calm	0	0	.....	.....	10 s	.....	sw.	0.03	0.8	cloudy	M. L. Hearne.
Prescott, Arizona	24.98	634.5	29.97	761.2	66	18.9	65	s.	2	0.9	.....	0	0	.....	.....	0.03	0.8	clear	I. McN. Wright.
Provincetown, Mass	29.93	760.2	29.96	761.0	77.0	25.0	64	nw.	8	3.6	.....	0	10 s	.....	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.16	766.1	30.17	766.3	78.5	25.8	85	e.	6	2.7	.....	3 c	0	calm	.....	0.13	3.3	clear	W. J. Evans.
Red Bluff, California	29.50	749.3	29.86	758.4	73.0	22.8	50	n.	3	1.3	.....	0	0	.....	.....	c	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.83	757.7	30.06	763.5	77.5	25.3	79	e.	3	1.3	.....	1 c	0	calm	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.35	745.5	30.00	762.0	73	22.8	82	sw.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	E. W. McGann.
Roseburg, Oregon	29.61	752.1	30.15	765.8	57	13.9	72	calm	0	0	.....	0	8 ks	.....	w.	0	0	cloudy	J. J. Naury.
Sacramento, California	29.79	756.7	29.86	758.4	65.8	18.8	68	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.53	750.0	30.11	764.8	74.0	23.3	90	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.08	738.6	29.92	760.0	66	18.9	78	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	P. F. Lyons
St. Vincent, Minnesota	29.09	738.9	29.93	760.2	57	13.9	93	w.	13	5.8	.....	.....	10 s; k	.....	w.	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.63	651.0	29.81	757.2	65	18.3	42	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.39	746.5	30.07	763.8	70.5	21.4	90	ne.	4	1.8	.....	5 c	0	.....	.....	0	0	fair	T. J. Kenan.
San Diego, California	29.88	758.9	29.95	760.7	62.6	17.0	85	e.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.39	746.5	30.05	763.3	74.0	23.3	71	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.00	762.0	30.03	762.7	77.0	25.0	82	w.	6	2.7	.....	1 k	0	w.	.....	0	0	clear	B. A. Blundon.
San Francisco, California	29.87	758.7	29.94	760.5	56	13.3	86	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.38	593.8	29.88	758.9	58	14.4	72	calm	0	0	.....	5 c	5 s	e.	.....	0.01	0.3	cloudy	H. U. Jones.
Savannah, Georgia	30.14	765.5	30.23	767.8	83	28.3	82	s.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.37	669.8	29.88	758.9	46	7.8	70	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.90	759.4	30.13	765.3	71	21.7	94	e.	2	0.9	.....	2 k	0	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.88	733.5	30.08	764.0	70.5	21.4	62	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Silver City, New Mexico	24.39	619.5	29.85	758.2	59	15.0	90	nw.	4	1.8	.....	.....	10 s	.....	calm	0.74	18.8	cloudy	J. B. Wallace.
Sitka, Alaska	29.84	757.9	29.90	759.4	50.5	10.3	93	nw.	12	5.4	.....	.....	fg.	.....	nw.	0	0	dense fog	J. J. McLean.
Smith, Fort, Arkansas	29.66	753.4	30.12	765.0	70.5	21.4	84	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.17	766.3	30.20	767.1	80	26.7	88	w	8	3.6	.....	4 c	1 k	.....	w.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.97	710.4	29.95	760.7	65	18.3	50	sw.	9	4.0	.....	.....	10 s	.....	sw.	0	0	cloudy	D. Moore.
Springfield, Illinois	29.43	747.5	30.09	764.3	72.5	22.5	76	sw.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.88	758.9	30.01	762.2	76.0	24.4	74	s.	1	0.4	.....	1 c	0	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo	28.72	729.5	30.11	764.8	70	21.1	76	s.	5	2.2	.....	0	3 k	.....	s.	0	0	clear	J. B. Marbury.
Starkville, Miss	29.71	754.6	30.18	766.6	78	25.6	82	se.	7	3.1	.....	0	8 k	.....	se.	trap.	trap.	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.26	717.8	30.04	763.0	55	12.8	83	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. Burrows
Stockton, Fort, Texas	27.06	687.3	30.00	762.0	67.8	19.9	70	s.	20	8.9	.....	0	5 s	.....	s.	0	0	fair	J. O'Dowd.
Thatcher's Island, Mass	29.91	759.7	29.96	761.0	71.8	22.1	87	sw.	5	2.2	.....	0	hz	.....	.....	0	0	clear	G. Liebmann
Toledo, Ohio	29.37	746.0	30.04	763.0	77	25.0	64	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.57	700.3	29.89	759.2	80	26.7	60	se.	9	4.0	.....	0	1 k	.....	.....	0	0	clear	J. L. Whiteside
Umatilla, Oregon	29.73	755.1	30.09	764.3	62	16.7	56	sw.	19	8.5	.....	0	1 s	.....	sw.	0	0	clear	J. Daly.
Uvalde, Texas	29.10	739.1	30.04	763.0	70	21.1	84	e.	3	1.3	.....	10 c	0	ne.	.....	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	72.1	22.3	46	se.	.....	.....	2	0	0	.....	.....	0	0	cloudy	D. Brooks.
Vicksburg, Mississippi	29.89	759.2	30.13	765.3	73	22.8	90	s.	4	1.8	.....	.....	10 s	.....	s.	0.10	2.5	cloudy	H. P. Brisbane.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.59	624.6	29.92	760.0	58.9	14.9	54	se.	4	1.8	.....	2 c	5 k	.....	.....	0	0	fair	T. M. Ambler.
Washington, D. C.	30.00	762.0	30.11	764.8	79.9	26.6	71	nw.	3	1.3	.....	7 k	0	nw.	.....	0	0	fair	B. M. Purssell.
West Las Animas, Colorado	26.09	662.7	29.85	758.2	62.4	16.9	90	calm	0	0	.....	10 cs	0	sw.	.....	0.27	6.9	cloudy	F. W. Brandenburg.
Williamsport, Pa	29.48	748.8	30.06	763.5	72.5	22.5	80	w.	4	1.8	.....	0	3 ks	.....	w.	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.15	765.8	30.20	767.1	77	25.0	90	w.	5	2.2	.....	2 c	0	.....	.....	0.03	0.8	clear	A. T. Sherwood.
Winnemucca, Nevada	25.63	651.0	29.85	758.2	56	13.3	37	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.75	730.2	30.02	762.5	65	18.3	73	calm	0	0	.....	0	0	.....	.....	0.04	1.0	clear	J. H. Attfield.
Yuma, Arizona	29.65	753.1	29.79	756.7	77.2	25.1	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.08	560.8	.....	.....	53.0	11.7	71	s.	7	3.1	.....	.....	7 ns	.....	w.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.04	763.0	30.05	763.3	82	27.8	78	ne.	.....	.....	.....	0	5 k	.....	e.	0.47	11.9	fair	J. A. Racker.
Buenaventura, U. S. C.	30.01	762.2	30.04	763.0	77	25.0	90	s.	2	0.9	.....	.....	10 ks	.....	s.	0.20	5.1	cloudy	J. I. Plume.
Kingston, Jamaica, W. I	30.07	763.8	30.08	764.0	78.7	25.9	75	calm	0	0	.....	6 cs	0	.....	.....	0.02	0.5	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	72	22.2	.....	calm	.....	.....	0	0	0	.....	.....	0.35	8.9	.....	S. M. Pike.
Navassa	29.93	760.2	30.01	762.2	82	27.8	72	ne.	7	3.1	.....	5 ck	4 s	e.	ne.	0.19	4.8	cloudy	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.05	763.3	79	26.1	87	ne.	.....	.....	2	4 c	5 k	e.	e.	0.700	17.8	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.39	746.5	29.95	760.7	77	25.0	94	calm	.....	.....	0	.....	fg.	.....	.....	0.03	0.8	dense fog	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	98	ne.	.....	.....	1	0	8 ks	.....	ne.	0.91	23.1	cloudy	Earl Flint.
Santiago de Cuba, W. I	30.04	763.0	30.07	763.8	80	26.7	82	n.	3.6	1.6	.....	2 ck	4 ks	.....	se.	0	0	fair	Robert Masone
York Factory, B. A.	30.02	762.5	30.08	764.0	55.0	12.8	93	n.	20	8.9	.....	0	0	.....	.....	0	0	clear	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, S. 0° 26′ W. 160° 27′	30.14	765.5	75	23.9	81	e.			3-4		1							blue sky.
H. M. S. Amethyst, S. 33° 53′, W. 52° 28′	30.03	762.7	56	13.3	93	ne.			5		8	ne.				2	ne.	misty.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.83	757.7	83	28.3		nne.			2									blue sky.
H. M. S. Bacchante, N. 36° 56′, W. 9° 15′	30.19	766.8	67	19.4	90	nnw.			1-2		0					4	nnw.	misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.12	765.0	66	18.9		calm			0		0							blue sky.
H. M. S. Champion, Yokohama, Japan			82	27.8	95	calm			0		0							blue sky.
H. M. S. Comus, N. 49° 25′, W. 147° 20′	29.92	760.0	54	12.2	93	s.			3-4		10					5	wsw.	raining.
H. M. S. Diamond, S. 9° 01′, E. 160° 05′	29.87	758.7	80	26.7	86	calm			0		1	ne.						blue sky.
H. M. S. Dido, N. 14′, 50° W. 61° 30′	30.07	763.8	80	26.7		ene.			2									showery.
H. M. Dock-Yard, Bermuda, W. I.			80	26.7	86	wsw.			3		3	wsw.						d. clouds.
H. M. S. Druid, N. 41° 04′, W. 48° 06′	30.19	766.8	72.3	22.4	85	sw.			2		2					1	sw.	d. clouds.
H. M. S. Eclipse, N. 17° 20′, E. 40° 28′	29.70	754.4	93	33.9		nw.			2-3		1					1	nw.	blue sky.
H. M. S. Emerald, N. 20° 20′ W. 28° 00′	30.13	765.3	75	23.9	100	ne.			3-4		10	ne.				3	ne.	overcast.
H. M. S. Espiegle, S. 17° 35′ E. 168° 16′	29.88	758.9	77	25.0	90	ese.			2-3		4	e.						d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.00	762.0	58.5	14.7	94	e.			1		10							misty.
H. M. S. Griffon, N. 50° 58′, W. 56° 58′	29.60	751.8	50	10.0	86	wsw.			2		5							d. clouds.
H. M. S. Iron Duke, N. 51° 20′, E. 140° 55′	29.67	753.6	53	11.7	100	ene.			2		4							d. clouds.
H. M. S. Kingfisher, N 48° 10′, W. 124° 50′	30.01	762.2	57	13.9		nne.			2		7							d. clouds.
H. M. S. Lark, S. 10° 24′, E. 161° 43′	29.91	759.7	79.3	26.3	94	e.			1		8					2	s.	showery.
H. M. S. Liffey, Coquimbo, Chili	30.10	764.5	53.5	11.9		calm			0		2	n.						d. clouds.
H. M. S. Magpie, N. 35° 06, E. 129° 03′	29.78	756.4	78.5	25.8	87	sw.			2		0							misty.
H. M. S. Minotaur, Aboukir Bay. Egypt	29.78	756.4	81	27.2	82	w.			3		3	ene.				2	wnw	d. clouds.
H. M. S. Nelson, S 35° 16′, E. 174° 08	29.54	750.3	61	16.1	88	n.			5									showery.
H. M. S. Pegasus, N. 5° 24′, E. 100° 20′	29.84	757.9	66	18.9	97	nnw			3		9	nnw.						d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Island	29.77	756.1	81.5	27.5	87	calm			0		10							d. clouds.
H. M. S. Rocket, Vancouver Island, B. A	30.16	766.1	68	20.0	94	ese.			2		9	ese.						raining.
H. M. S. Sappho, N. 6° 00′ W. 149° 00′	30.01	762.2	55	12.8	?	nne.			2		7							d. clouds.
H. M. S. Swiftsure, S. 42° 30′, W. 60° 50′	29.86	758.4	75.5	24.2		calm			0		3	ne.				3	ne.	raining.
H. M. S. Sylvia, Montevideo, Uruguay	29.97	761.2	45.5	7.5	92	s.			1		10	s.				1	s.	foggy.
H. M. S. Tenedos, N. 51° 25′ W. 57° 08′	29.93	760.2	55.0	12.8	97	ene.			1		10							raining.
H. M. S. Thetis, S. 5° 06′, W. 81° 19′	29.78	756.4	55	12.8	73	w.			2		6							d. clouds.
H. M. S. Triumph, Sandy Point, Patagonia	30.03	762.7	62	16.7	94	ese.			3		8					2	s.	misty.
H. M. S. Tyne, N. 37° 45′, W. 39° 14′	29.88	758.9	43	6.1	67	sw.			1-2		0							blue sky.
H. M. S. Woodlark, Jask Bay, Persia	30.34	770.6	78	25.6	82	s.			3		2					2	s.	d. clouds.
PORTUGUESE NAVAL.																		
Tamega, Macao, China	29.60	751.8	90.5	32.5	76	s.			2		0							dense mist.
SWEDISH NAVAL.																		
Saga, Edo Fiord, Norway	29.75	755.7	86.0	30.0	78	s.			2		8		s.					d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.30	769.5	66.2	19.0	97	nne.			1		3							d. clouds.
Navy Yard, Portsmouth, N. H	30.06	763.5	76	24.4	82	ne.	2	0.9			8							
Naval Hospital, Yokohama, Japan*	29.94	760.5	72	22.2	71	calm	0	0			0		ne.	0	0			fair.
Adams, Mare Island, Cal	29.70	754.4	80	26.7	84	sw.			1		0			0	0			clear.
Alaska, Callao, Peru						sw.			1		0			0	0			clear.
Alliance, N. 42° 15′, W. 70° 39′	29.95	760.7	59	15.0	94	calm			0		10			0	0	sm'h		clear.
Ashuelot, Yokohama, Japan*	29.98	761.5	69	20.6	85	sw.			2		2			0	0	sm'h		cloudy.
Brooklyn, Rio de Janeiro, Brazil	29.68	753.9	81	27.2	91	ssw.			1		2			0	0	sm'h		clear.
Colorado, New York, N. Y	30.28	769.1	69	20.6	95	calm	0	0			2		calm					clear.
Constellation, New York, N. Y*	30.01	762.2	78	25.6	78	calm	0	0			0		calm	0	0	sm'h		fair.
Enterprise, Provincetown, Mass*	30.02	762.5	81	27.2	66	nw.			1		0			0	0			hazy.
Essex, Valparaiso, Chili	29.94	760.5	75	23.9	72	w.			2		2							clear.
Franklin, Norfolk, Va	30.13	765.3	53	11.7	80	ssw.			2		8		calm			sm'h		clear.
Galena, Gibraltar, Mediterranean	30.15	765.8	80	26.7	87	wsw.	9.6	4.3			2		s.			sm'h	nw.	clear.
Independence, Navy Yard, Mare Island, Cal	30.25	768.3	75	23.9	90	w.			2		10		w.	0	0			fair.
Iroquois, Mare Island, Cal	29.93	760.2	63	17.2	94	sw.			2		0		se.			sm'h	nw.	cloudy.
Kearsarge, Norfolk, Va	30.04	763 0	66	18.9	74	wsw.			2		0			0	0			clear.
Lackawanna, Callao, Peru*	30.13	765.3	79	26.1	95	w.			1		5							clear.
Lancaster, Messina, Sicily*	30.00	762.0	60	15 6	88	calm			0		10		w.					fair.
Marion, S. 34° 54′, W. 56° 13′	29.92	762.0	81	27.2	91	ne.			4		0							cloudy.
Michigan, Green Bay, Wisconsin	29.90	759.4	57	13.9	100	ne.			2		10			0	0			clear.
Minnesota, Newport, R. I.	29.86	758.4	73	22.8	95	sw.			2		10		ne.	h'vy	h'vy	sm'h		rainy.
Monocacy, Chefoo, China	30.02	762.5	72	22.2	85	sw.	4	1.8			1		sw.					raining.
New Hampshire, Newport, R. I.	29.62	752.3	81	27.2	70	s.			3		8		n.					
Nipsic, Tripoli, Africa*	30.03	762.7	73	22.8	85	sw.			1		2		sw.			sm'h		fair.
Onward, Callao, Peru†	30.04	763.0	81	27.2	78	nnw.			4		0					sm'h		fair.
Palos, Kobe, Japan*	30.13	765.3	58	14.4	94	calm			0		10					mod.		clear.
Passaic, Washington, D. C.	29.65	753.1	85	29.4	79	calm			0		2		n.			long	w.	cloudy.
Pensacola, Panama, Panama*	30.15	765.8	79	26.1	95	w.			1		8		calm					fair.
Portsmouth, N. 43° 20′, E. 7° 55′*	29.86	758.4	77	25.0	91	nw.	3	1.3			10		w.					fair.
Powhatan, N. 28° 49′, W. 86° 00′	30.02	762.5	73	22.8	63	wnw.			1		2		nw.	0.06	1.5	sm'h		cloudy.
Quinnebaug, Alexandria, Egypt	30.15	765.8	83	28.3	83	sse.			1		2		ese.			mod.	nne.	clear.
Ranger, Mare Island, Cal	29.81	757.2	80	26.7	87	wnw.			3		2		nw.			light	se.	fair.
Richmond, Yokohama, Japan*	29.93	760.2	67	19.4	79	sw.			2		0					sm'h		clear.
Saratoga, Genoa, Italy	29.66	753.4	81	27.2	96	sse.			2		0			0	0			clear.
St. Louis, League Island, Pa	30.00	762.0	80	26.7	78	ne.			3-4		2			0	0			clear.
Swatara, N. 34° 44′, E. 139° 14′*	30.27	768.8	80	26.7	74	calm			0		2		w.	0	0	sm'h		fair.
Tennessee, Provincetown, Mass	29.60	751.8	80	26.7	91	s.			4		2		wnw.	0	0			clear.
Vandalia, Portsmouth, N. H*	30.01	762.2	80	26.7	70	w.	10	4.5			0		calm			sm'h	sw.	fair.
Wabash, Boston, Mass	29.92	760 0	75	23.9	72	nw.			1		0			0	0			clear.
Wachusetts, Fort Wrangle, Alaska†	29.98	761.5	76	24.4	58	w.	6	2.7			0							misty.
Wyoming, Port Royal, S. C.*	30.12	765.0	58	14.4	94	e.			1		10			0	0			clear.
Yantic, Provincetown, Mass	30.21	767.3	80	26.7	87	sw.	6	2.7			2					sm'h		cloudy.
	29.97	761.2	75	23.9	68	nw.			1		2		calm	0	0			clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
Allan Line.																	
S. S. Grecian, Glasgow, Scotland*	30.27	768.8	62	16.7		ssw.			4		10		s.				overcast.
S. S. Scandinavian, N. 54° 32′, W. 189 52′*	29.94	760.5	59	15.0		w.			4		10		w.	sh'rs	sh'rs	con.	overcast.
S. S. Waldensian, N. 42° 19′ W. 70° 38′*	29.98	761.5	75	23.9		ssw.			2		2			o	o	light	sw.	clear
American Steamship Company.																	
S. S. Lord Clive, N. 48° 01′, W 35° 00′*†	30.08	764.0				ssw.			4		9		wsw.	o	o	sm'h	wsw.	cloudy.
S. S. Lord Gough, N. 46° 31′, W. 53° 18′	29.87	758.7	55	12.8		sw.			3		10		sw.	3 h'r	3 h'r	mod.	sw.	foggy.
Amsterdam Line.																	
S. S. Jason, N. 40° 36′, W. 71° 02′	29.94	760.4	63.5	17.5		wsw.			2		10 n					1	w.	foggy.
Anchor Line.																	
S. S. Alexandria, Leghorn, Italy	30.01	762.2	78	25.6		nw.			2		3		nw.	o	o			clear.
S. S. Ethiopia, New York, N. Y	30.00	762.0	76.5	24.7	90	w.			2		4		w.	o	o			hazy.
S. S. Galatia, N. 18° 18′, E. 69° 01′†	29.90	759.4	85.3	29.6		sw.			5		8		sw.	1 h'r	1 h'r	mod.	ssw.	
S. S. India, N 41° 44′, W. 59° 05′*	29.94	760.5	77	25.0	95	wsw.			0		3					short	wsw.	fair.
S. S. Utopia, N. 46° 08′ W. 36° 44′†	30.37	771.4	64	17.8	78	sse.			2		10		ssw.	o	o	slight	sw.	overcast.
Atlas Line.																	
S. S. Ailsa, N. 16° 09′, W. 74° 40′†	30.11	764.8	82	27.8	87	e.			5		hz.		se.	o	o		con.	hazy.
S. S. Alpin, N. 26° 56′, W. 68° 40′	30.19	766.8				ese.			1		3		ese.	rain	rain		e.	clear.
S. S. Alvo, N 10° 06′, W. 77° 53′	29.95	760.7				n.			4		7?		n.	4 h'r	4 h'r		n.	overcast.?
S. S. Antillas, N. 38° 20′, W. 74° 20′*†	30.30	769.6	82	27.8		calm			0							sm'h		fine.
Boston and Halifax Line.																	
S. S. Carroll, Charlottetown, Prince Edwards I'd†	30.01	762.2	74	23.3		n.			2		0			o	o			clear.
British Meteorological Office.																	
Auckland, S. 29° 10′ W. 34° 35′	30.31	769.9	68	20.0	79	wnw.			1		4							showery.
S. Baroda, S. 22° 02′, E. 3° 54′	30.25	768.3	62.5	16.9	83	ne.			4		5							d. clouds.
S. S. City of Agra, S. 27° 04′, W. 35° 45′	30.35	770.9	69	20.6	84	e.			2		0							blue sky.
Bk. Commewyne, N. 32° 49′, W. 58° 36′	30.14	765.5	78	25.6	82	sw.			3		10							d. clouds.
S. S Gordon Castle, N. 40 52′, W. 68° 57′	29.99	761.7	70.5	21.4	79	sw.			2		5							foggy.
S. S. Markland, S. 34° 56′, W. 79° 18′	30.07	763.8	55.5	13.1	93	ssw.			5		10					5	sse.	d. clouds.
May Hulse, N. 18° 12′, W. 30° 07′	30.08	764.0	76.2	24.6	76	ene.			3		4							d. clouds.
S. Oamaru, S. 22° 05′, E. 1° 04′	30.48	769.1	66.7	19.3	68	e.			3–4		2							blue sky.
S. S. Pole Star, N. 36° 18′, W. 40° 01′	30.36	771.1	79.6	26.4	95	ssw.			3		4							blue sky.
Cunard Line.																	
S. S. Bothnia, N. 47° 01′, W. 37° 10′	30.15	765.8	67	19.4	94	sw.			4		7		sw.	o	o	mod.	sw.	
S. S. Gallia, N. 51° 08′, W. 10° 49′	30.22	767 6	60	15.6	100	ssw.			5		10			mist	mist	sm'h		hazy.
S. S. Scythia, New York, N. Y	30.01	762.2	80	26.7	91	calm			0		0			o	o			clear.
General Trans-Atlantic Company.																	
S. S. France, N. 49° 06′, W. 20° 55′†	30.34	770.7	59.0	15.0		nw.			4		ck		nw.		o	sm'h	w.	covered.
S. S. Ville de Marseilles, N. 38° 08′, E. 5° 55′*†	30.20	767.1	75	23.9		n.			5		0			o	o	long	nnw.	clear.
Hamburg American Packet Company.																	
S. S. Bohemia, N. 43° 08′, W. 57° 45′†	30.00	762.0				wsw.			4		3		w.	o	o	cross	wsw.	
S. S. Cimbria, Texel Island, North Sea	30.45	773.4	61	16.1		nnw.			4		3?		n.	o	o	sm'h	n.	covered?
S. S. Gellert, N 48° 20′, W. 41° 42′			62	16.7		s.			3		10		s.	o	o	mod.	s.	covered.
S. S. Herder, Hamburg, Germany	30.28	769.2	80	26.7		nne.			2		4?		nnw.	o	o			cloudy.?
S. S. Silesia, N. 44° 34′, W. 45° 12′†	30.19	766.8	67.8	19.9	92	sw.			6		7		se.	o	o	3	sw.	fair.
S. S. Westphalia, N. 49° 53′, W. 36° 56′			63	17.2	72	ssw.			6		8		wsw.	4 h'r	4 h'r	h'vy	ssw.	stormy.
Inman Line.																	
S. S. City of Berlin, N. 46° —′ W. 39° —′	30.11	764.8				sw.			4		9		sw.	o	o	sm'h		gloomy.
Lampert and Holt's Line.																	
S. S. Hevelius, Montevideo, Uruguay*†	30.20	767.1	60	15.6		wsw.			6		10		w.	2 h'r	2 h'r			raining.
Leyland Line.																	
S. S. Bulgarian, N. 46° 29′, W. 43° 34′*	30.01	762.2				wnw.			3		fg		wsw.	o	o	light	wsw.	foggy.
Mallory Line.																	
S. S. Colorado, New York, N. Y.†	30.00	762.0	76	24.4		calm			0		0			o	o			clear.
Mediterranean and New York Steamship Co.																	
S. S. Archimede, Brooklyn, N. Y.*†	30.08	764.0	80	26.7	78	wsw.			1		0			o	o			clear
Merchants' Express Line.																	
S. S. Hermod, N. 44° 43′ W 46° 04′*†	29.78	756.4	62.6	17.0		sw.			2		10		sw.	6 h'r	6 h'r	mod.	ssw.	dense fog.
Merchants' Steamship Company.																	
S. S. Glenfyne, N. 24° 14′ W. 60° 00′	29.65	753.1				ene.			4				n.	o	o	sm'h	s.	fine.
S. S. Glenapp, N. 33° —′, W. 72° —′†	30.27	768.8				w.			2		4		sw.	o	o	sm'h		fine.
National Line.																	
S. S. Canada, N. 45° 06′, W. 35° 58′†	30.10	764.5	64	17.8		s.			2		10		se.	o	o	sm'h		fine.
S. S. Denmark, New York, N. Y	30.04	763 0	79	26.1		nw.			1		0			o	o			clear.
S. S. England, N. 42° 22′, W. 45° 21′	30.15	765.8				wsw.			3		0			o	o	sli't	wsw.	clear.
S. S. Erin, New York, N. Y	30.02	762.5	85	29.4		calm			0		0			o	o			
S. S. The Queen, N 41° 28′, W. 44° 17′	30.14	765.5	70	21.1		sw.			4		5?		sw.	sh'rs	sh'rs	sm'h		clear?
New York and Cuba Mail Steamship Company.																	
S. S. Santiago, Cienfuegos, Cuba, W. I †	30.17	766.3	84	28.9		calm			0		1		ene.	o	o			fine.
New York Havana and Mexican Mail.																	
S. S. City of Alexandria, New York, N. Y. †	30.11	764.8	79	26.1	86	calm			0		5		w.	o	o			fair.
S. S. City of Washington, N. 22° 47′, W. 85° 25′*†	30.22	767.6	85	29.4		e.			3		2		e.	o	o	sm'h		fine.
North German Lloyd.																	
S. S. Hermann, N. 44° 19′, W. 41° 19′	30.18	766.6	68.0	20.0		ssw.			4		7		sse.	2 h'r	2 h'r	high	sw.	rainy.
S. S. Leipzig, N. 45° 57′, W. 34° 41′	30.25	768.3	69.0	20.6	84	s.			4		2			o	o	mod.	sw.	clear.
S. S. Neckar, N. 43° 14′, W. 43° 42′	30.19	766.8	72.5	22.5		ssw.			3		5		ssw.	2 h'r	2 h'r	mod.	sw.	fair.
S. S. Ohio, N. 51° 32′, E 2° 03′	30.56	776 2				calm			0		2		sw.	o	o	sm'h	nne.	fair.
S. S. Rhein, N. 41° 26′, W. 59° 03′	30.02	762.5				w.			4		2		w.	o	o	mod.	w.	clear.
S. S. Salier, N. 52° 20′, E. 3° 24′	30.48	774.2	56 3	13.5		n.			2		2		n.	o	o	mod.	n.	fair.
Occidental and Oriental Steamship Company.																	
S. S. Arabic, N. 43° 18′, W. 132° 28′*†	30.24	768.1	59	13.3	87	n.			3		10		ne.	o	o	mod.	sw.	misty.
S. S. Belgic, N. 41° 42′, W. 147° 29′ †	30.45	773.4	69	20.6	79	sw.			3		5		sw.			sm'h		fair.
S. S. Gaelic, N. 42° 25′, E. 177° 41′†	29.96	761.0	60	15.6	88	sw.			4		8		w.			sm'h		misty.
S. S. Oceanic, N. 40° 35′, E. 151° 14′*	29.59	751.6	70	21.1	95	ssw.			4		10		w.			2	wnw.	fine.
Ocean Steamship Company.																	
S. S. City of Augusta, New York, N. Y †	30.09	764.3				calm			0		0			o	o			clear.
S. S. City of Columbus, N. 38° 00′ W. 74° 31′†	30.13	765.3				wnw.			5		8		nw.	o	o	mod.	sw.	cloudy.
S. S. Seminole, Savannah, Ga.†	30.22	767.6	86	30.0	75	sw.			1		1		sw.	1 h'r	1 h'r			clear.
Oregon Railway and Navigation Company.																	
S. S. Oregon, Portland, Oregon†	30.17	766.3	57	13.9	81	calm			0		10							threatening.
Pacific Coast Steamship Company.																	
S. S. Ancon, N. 34° 05′, W. 119° 10′†	29.92	760.0	60	15 6	94	sse.			3		10		se.			sm'h		cloudy.
S. S. City of Chester, Off Point Lobos, Cal*†	29.88	758.9	57	13.9	100	nw.			2		5		nw.			long	nw.	cloudy.
S. S. Idaho, Portland, Oregon†	30.18	766.6	58	14.4	87	se.			2		8		s.					overcast.
S. S. State of California, N. 40° 26′, W. 124° 30′†.	30.10	764.5	54	12.2	86	nw.			4		0					short	nw.	clear.
S. S. Victoria, Nanaimo, Vancouver's Island†	29.91	759.8	57	13.9	87	se.			1		5?			o	o			overcast?
Pacific Mail Steamship Company.																	
S. S Australia, Sydney, N. S. W	29.83	757.7	44	6.7	92	wsw.			4		0			o	o			clear.
S. S. City of New York, S. 33° 51′, E 158° 59′†	29.41	747.0	57	13.9	69	s.			6		5		s	5 h'r	5 h'r	h'vy	wsw.	squally.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.15	765 8	77	25.0	91	nw.			2		5		nw.	o	o	sm'h		fair.
S. S. City of Sydney, N. 1° 52′, W. 105° 08′†	29.90	759 4	83	28.3	67	ene.			3		5?		ne.	o	o	mod.	ne.	cloudy.
S. S. City of Tokio, N. 30° 45′, E. 129° 51′†	29.92	760.0	82	27.8	83	ssw.			1		2		sw	o	o			fine.
S. S. Colima, N. 27° 38′ W. 115° 19′†	29.95	760.7	62	16.7	83	wnw.			6		10		nw.	o	o	mod.	nw.	cloudy.
S. S. Costa Rica, Panama, Panama*†	30.02	762.5	70	24.4	95	nw.			2		8		calm	8 h'r	8 h'r	sm'h		overcast.
S. S. Grenada, N. 20° 12′, W. 105° 43′†	29.98	761.5	80	20.7	91	e.			1		4?		se.	4 h'r	4 h'r	sm'h	sse.	cloudy.?

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower					
	Inch.	Mill.	Fah.	Cent	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
QUEBEC S. S. COMPANY.																		
S. S. Bermuda, St. Lucia, W. I†	30.05	763.3	82	27.8		e.			2		9		e.	24 h'r	24 h'r	sm'h		cloudy.
RED STAR LINE.																		
S. S. Rhynland, N. 42° 45′, W. 46° 00′	30.25	768.3	77	25.0	77	sw.			3		2		s.	0	0	sm'h		fair.
S. S. Switzerland, N. 44° 33′. W. 38° 45′†	30.21	767.3				ese.			2		8		sw.	1 h'r	1 h'r	mod.	wsw.	hazy.
S. S. Vaderland. N. 40° 20′ W. 59° 12′	29.91	759.7	77	25.0	82	wsw.			3		0			0	0	sm'h	w.	clear.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 49° 04′. W. 21° 23′*	30.34	770.6	66.0	18.9	78	w.			4		10			4 h'r	4 h'r	mod	w.	cloudy.
S. S. W. A. Scholten, N. 40° 17′ W. 69° 18′	29.93	760.2	73.8	23.2	90	sw.			4		10		w.	0	0	sm'h	w.	
STATE LINE.																		
S. S. State of Florida, N. 47° 51′, W. 35° 06′	30.11	764.8	61	16.1		ssw.			6		6?		sw.	2 h'r	2 h'r	mod.	sw	clear ?
THINGVALLA LINE.																		
S. S. Thingvalla, Christiana, Norway†	30.47	773 9	74.3	23.5		n.			2		3		n.	0	0	sm'h	n.	clear.
WARREN LINE.																		
S. S. Iowa, N. 42° 15′ W. 67° 30′*†	30.09	764.3	66	18.9		wsw			2		4		wsw.	0	0	sli't	wsw.	hazy.
W. I. & PACIFIC STEAMSHIP CO.																		
S. S. Venezuela, N. 39° —′, W. 64° —′*	30.10	764.5	80	26.7	?	wsw.			3		1		wsw.			sm'h		clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 45° 34′, W. 36° 22′	30.20	767.1							2		6		ssw.	1 h'r	1 h'r	2	sw.	fine.
WHITE STAR LINE.																		
S. S. Adriatic, N. 49° 42′ W. 25° 02′†	30.41	772.4	61	16.1	97	wsw.			2		10		wsw.			mod.	sw.	misty.
S. S. Celtic, Liverpool, Eng†	30.47	773.9	64	17.8	83	ssw.			3		10		sw.	0	0			misty.
S. S. Republic, N. 40° 59′, W. 67° 50′†	30.13	765.3	67	19.4	100	wsw.			3		fg.			0	0	sm'h		foggy.
WILSON LINE.																		
S. S. Romano, Hull, Eng	30.24	768.1	62	16.7		w.			1		7		nw.	0	0			cloudy.
WINSOR LINE.																		
S. S. Catherine Whiting, Barnegat, N. J†	30.10	764.5	76	24.4		w.								0	0	sm'h		
MISCELLANEOUS.																		
Bg. Abbe Clifford, N. 38° 48′ W. 72° 44′.*†	30.15	765.8	78	25.6		sw.			4		2			0	0	sm'h	e.	
Schr. Ajax, N. 25° 32′ W. 85° 10′†	30.21	767.3				ese.			1		8		se.	0	0	sm'h	e.	fair.
Bk. Alpha, N. 41° 30′ W. 51° 23′†	30.09	764.3	78	25.6		sw.			4		2		w.	0	0	sm'h		fair.
Schr. Annie Lewis, N. 27° 20′, W. 91° 45′†	30.25	768.3	83	28.3		sse.			2		8		sse.	6 h'r	6 h'r	long	se.	cloudy.
Bk Anna Thormann, S. 39° 05′, E. 55° 52′	30.33	770.3	48.9	9.4	87	ssw.			7		9 k;n		ssw.	7 h'r	7 h'r	high	sw.	overcast.
S. S. Antonio Lopez, Havana, Cuba, W. I.†	30.14	765.5	78.5	25.8	90	ese.			3		2			3 h'r	3 h'r			hazy.
Bk. Argonaut, N. 46° 14′, W. 38° 40 *†	30.20	767.1	64.0	17.8		ssw.			5		6		wsw.	1 h'r	1 h'r	mod.	wnw.	cloudy.
Schr. Asa Eldridge, Punta Rassa, Fla†	30.26	768.5				ne.			3		2		ene.	1 h'r	1 h'r			fair.
Bk. Bremen, N. 59° 16′ W. 5° 15′*†	30.18	766.6				s.			8		10		s.	0	0	hv'y	ssw	cloudy.
S. S. Burswell, N. 45° 20′, W. 1° 00′*†	30.28	769.1	79	26.1		n.			2–3		1		nnw.	0	0			very fine.
Bk. Cato, Malmo, Sweden*†	30.58	776.7				n.			3		2		n.	0	0			clear.
Bk. Celestina, S. 12° 20′, W. 24° 45′*†	30.12	765.0				e.			2		2		e.	0	0	little	e.	fine.
Schr. C. R. Flint, N. 25° 24′, W. 79° 58′†	30.37	771.4	79	26.1		ese.			2		2		ese.	1 h'r	1 h'r	mod.	ese.	clear.
S. Cornelius, N. 45° 26′, W 25° 16′*†	30.04	778.2	67	19.4		sse.			2		0			0	0	long	wnw.	clear.
S. S. D. J. Foley, Port Antonio, Jamaica, W. I†	29.98	761.5							4		0			0	0			clear.
Schr. Edith R. Seward, Turk Id, W. I*†	30.20	767.1	85	29.4		ene.			1		1		e.	½ h'r	½ h'r	sm'h	ese.	clear.
S. E. J. Spicer, New York, N. Y*	29.96	761.0	80	26.7		calm			0		3			0	0			
Bk. E. L. Pettingill, N. 23° 49′ W. 148° 29′†	30.20	767.1				e.			6		5		ese.	0	0	mod.	ese.	
S. Enoch Train, N. 45° 34′, W. 29° 00′*†	30.52	775.2				ese.			2		10		calm	shr's	sh'rs	long	nw.	hazy.
Bk. Essex, S. 32° 39′ E. 39° 40′*†	30.48	774.2	63	17.2		se.			5		1		sse.	0	0	mod.	sw.	clear.
Bk. Franklin, N. 39° 30′, W. 46° 50′*†	30.51	774.9				s.			1		5			3 h'r	3 h'r	mod.	sw.	fair.
S. Grecian, Hong Kong, China*†	29.72	754.9	86	30.0		calm			0		0			0	0			clear.
Bk. Hattie G. McFarland, Delaware Bay*†	30.18	766.6	70	21.1		wsw.			3		8		w.	0	0			
Bk. Heinrich & Tonio, N. 39° 34′, W. 65° 13′*†	30.26	768.6	76	24.4		wsw.			4–5		5		nw.	0	0	mod.	w.	fair
Bk. Horace Scudder, Port of Spain, Trinidad, W. I†	30.07	763.8	82	27.8		ssw.			1		8		e.	0	0			blue sky.
S. Ivy, S. 14° 52′, W 129° 35′†	30.24	768.1	75	23.9		ese.			5		8		se.	1 h'r	1 h'r	cross	var.	cloudy.
S. Ismir, S. 29° 00′ E. 102° 10′†	30.12	765.0				s.			5		4		s.	1 h'r	1 h'r	r'gh	s.	fine.
Schr. James Slater, N. 18° 18′ W. 60° 27′ *†	30.35	770.9	84	28.9		ene.			4		2		ene.	0	0	long	ese.	
Schr. Jennie N. Huddell, N. 42° 18′, W. 70° 00′†	30.13	765.3	73	22.8	90	wnw.			2		0			0	0	sm'h		clear.
Bk. Johanne, N. 45° 20′, W. 38° 58′*†	30.18	766.6	64	17.8		s.			4		5		sw.	light	light	r'gh	w.	squally.
Bg. John Wesley, St. Jago, Cuba, W I†	29.91	759.7				ne.			3		1		e.	½ h'r	½ h'r			clear.
Bk. Joseph A. Ropes, S. 24° 48′, W. 37° 04′*†	30.32	770.1	71	21.7	75	e.			3		5		e.	0	0	mod.	ese.	fair.
Bkt. Josephine, N. 24° 30′, W. 79° 28′†	30.16	766.1	86	30.0	68	ese.			5		0			0	0	sm'h	ese.	clear.
Bkt. Kryolith, N. 44° 00′, W. 61° 10′*†	29.88	758.9				sw.			3		8		nw.			short		hazy.
S. S. Laurel, Key West, Florida†	30.18	766.6	85	29.4		ese.			2		8		ese.	1				cloudy.
Bk. Liberia, N. 22° 12′, W. 57° 04′*	30.10	764.5	82	27.8	91	ese.			4		5		se.					
S. S. Madrid, N. 48° 18′, W. 15° 04′ *†.	30.48	774.2	62	16.7		w.					8		w.	dri	.riz.	long	w.	clearing.
S. S. Nebo, Genoa, Italy*†	29.93	760.2				n.			5		0			0	0			clear.
S. Orealla, N. 34° 33′, W. 42° 00′*	30.19	766.8	86	26.7		ssw.			2		1		ssw.	0	0		nw.	clear.
S. Paramita, N. 15° 23′ W 123° 31′†	29.82	757.4	81	27.2		nne.			4		1		ne.	0	0	short	nnw.	clear.
Bk. Sunbeam, N. 37° 52′ W. 69° 56′†	30.20	767.1	79	26.1	86	s.			6		5		sw	0	0	sm'h		fair.
S. S. Sunbeam, N. 44° 24′, E. 30° 10′	29.82	757.4	85	29.4	71	n.			1		1		n.				wnw.	blue sky
S. Sovereign Of The Sea, S. 23° 32′ W. 40° 41′*†	30.16	766.1	74	23.3	85	e.			1–2		3		e.	0	0	long	sse.	clear.
Bg. Teneriffe, Sagua la Grande, Cuba	30.01	762.2				e.			2									
Bk. Truro, N. 45° 12′, W. 54° 55′*†	29.90	759.4				sw.			2		10			0	0	sm'h		foggy.
U.S. F. C. S. S. Fish Hawk, Woods Holl, Mass†	30.19	766.8	74	23.3	90	sw.			2		1		calm	0	0			clear.
Schr. Viola Reppard, Sandy Point Light, Md†	29.99	761.7	84	28.9		nw.			2		8			0	0			
Bk. Wm. Wilcox, Buenos Ayres, S. A*†	29.90	759.4	68	20.0		nnw.			3		1		nnw.	8 h'r	8 h'r			clear.

International Chart I. July 27, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

SIGNAL SERVICE · U.S. ARMY.

By Order of the Secretary of War.

W. B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 28, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.17	766.3	76.6	24.8	74	n.			5		2			0	0	fair	Bouvier.
Algiers			30.23	767.8	78.8	26.0	62	e.			1		0			0	0	clear	Nicolas.
La Galle			30.15	765.9	81.0	27.2	69	nnw.			4		3			0	0	pretty fair	Fonfrède.
Tunis			30.11	764.8															Jacques.
Saida			30.07	763.8	91.8	33.2	28	s.			2		0			0	0	clear	Perès.
Tebessa			30.10	764.5	75.9	24.4	30	n.			3		1			0	0	clear	Derché.
Geriville					95.0	35.0	8	w.			2		0			0	0	clear	Lonchamp.
Laghouat			30.20	767.0	96.8	36.0	29	ne.			1		0			0	0	clear	Abraham.
Biskra			30.09	764.3	93.2	34.0	29	nnw.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.10	764.5	30.19	766.8	46.0	7.8	86	ssw.	4	1.8			10			0.03	0.8	misty	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.35	745.6	29.89	759.3	60.8	16.0	85	n.			2		10			0.929	23.6	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.20	741.7	29.95	760.8	62.6	17.0	47	n.	8.7	3.9			10			0	0		Dr. Wierzbiski.
Eperies	28.97	735.7	29.52	757.4	63.9	17.7	90	n.			1		10 ns		s.	0.315	8.0		Julius Mikolik.
Gratz	28.71	729.2	29.93	760.1	66.0	18.9	75	nw.			4		10			0	0		Andreas Rospini.
Hermannstadt	28.37	720.5	29.74	755.5	65.1	18.4	84	nw.			2		10			0.732	18.6	thnd'r storm	Prof. A. Gottschling
Kremsmunster, Obs'y	28 82	731.9	30.15	765.9	55.9	13.3	97	nw.			1		10			2.130	54.1	raining	The Staff.
Lemberg	28.89	733 9	29.84	757.9	71.4	21.9	87	ne.			1		10			0.543	13.8		Dr. T. Stanecki.
Pola	29.81	757.1	29.91	759.8	75.4	24.1	56	wnw.			4		6			0	0		I. R. Hydrographic Office.
Szathmar	29.26	743.3	29.71	754.5	65.7	18.7	97	w.			2		10			0.591	15.0		Joseph Midlinszay, S. J.
Szegedin	29.45	748.1	29.72	755.0	62.6	17.0	98	s.			3		8			0.890	22.6		Karl Stancel.
Trieste	29.85	758.2	29.95	760.8	77.7	25.4	53	sw.			2		6			0.055	1.4		Royal Academy.
Vienna	29.29	743.9	30.00	762.0	56.8	13.8	92	nw.			5		10			1.992	50.6		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.18	766.6	30.28	769.1	62.2	16.8	68	se.	12	5.4			2			0	0	blue sky	W. Boswell
Armagh, Observatory	30.12	765 0	30.35	770.9	60.0	15.6	87	wnw.	2	0.9			10					gloomy	S. Call.
Bidston, Liverpool Obs'y					62.0	16.7	90	w.	11	4.9			10					overcast	John Hartnup.
Bolton, Sharples	29.72	754 9	30.25	768.3	65.2	18.4	83	ssw.	12	5.4			0					d. clouds	Thomas Mackereth, Ston.
Bradford, Yorkshire	29.87	758.7	30.20	768.6	66.0	18.9	75	nw.			2		5			0.01	0.3	d. clouds	McLandsborough & Pres.
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	82.0	27.8	74	ne.			2		8					overcast	Corpl. J. Surgenor, A. H. C.
Cardington			30.32	770.1	65.4	18.6	83	sw.			0.2		10					overcast	John McLaren.
Chatham, School M. E.	30.22	767.6	30.35	770.9	64.0	17.8	75	calm			0		10			blank	blank	gloomy	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.13	765.3	30.36	771.1	65.5	18.6	71	nw.			2		8					overcast	The Staff.
Fort Napier, Natal	28.00	711.2	30.22	767.6	63.4	17.4	59	se.			1		2					blue sky	Pvt. Lane, A. H. C
Free Town, Sierra Leone	29.63	752.6	29.86	758.4	87.0	30.6	69	w.			1		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.06	763.5	30.11	764.8	74.5	23.6	88	e.			3		8					gloomy	Cpl. O. Baldwin.
Glasgow, Observatory	30.10	764.5	30.30	769.6	62.8	17.1	69	w.			4		10 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.17	766.3	30.34	770.6	63.2	17.3	78	wsw.			1		10					overcast	The Staff.
Guernsey	30.06	763.5	30.36	771.1	66.0	18.9	73	wsw.			1		2					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.31	769.9	30.34	770.6	63.7	17.6	75	sw.	5	2.2			10					threatening	The Staff.
Leicester, Museum	30.06	763 5	30.31	769.9	64.8	18.2	82	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.82	757.4	29.89	759.2	81.8	27.7	58	nw.			3		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.15	765.8	30.20	767.1	84.0	28.9	73	e.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.79	756.7	30.30	769.6	65.8	18.8	81	ssw.			2		10					overcast	Warren Middleton.
Oxford, Radcliffe Obs'y	30.11	764.8	30.33	770.4	63.0	17.2	83	wsw.			1		10					overcast	The Staff.
Plymouth	30.26	768.6	30.34	770.6	66.8	19.3	81	ssw.			2		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys																			Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.50	749.3	29.57	751.1	90.0	32.2	47	ne.			2		0					misty	W. H. Lyne.
Sheffield	30.02	762.5	30.29	769.4	73.9	23.3	59	wnw.			1		3			0.02	0.5	d clouds	W. F. Cooper.
Silloth Rectory	30.27	768 8	30.30	769.6	70.0	21.1	66	w.			1		2			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.31	769.9	69.0	20.6	65	wsw.	8	3.6			7					d clouds	Rev. S. J. Perry.
Stratfield Turgiss	30.13	765.3	30.34	770.6	66.2	19.0	76	sw.			1		7					d. clouds	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	30.44	773.2	30.45	773 4	70	21.1	61	nw.			4		6					d. clouds	W. Newcombe.
Valencia, Observatory	30.37	771.4	30.39	771.9	59.2	15.2	81	w.	9	4.0			6					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.00	762 0	30.04	763.0	65	18.3	76	se.	11	4.9			10 s		sw.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.94	760.5	30.00	762.0	62	16.7	93	ne.	1	0.4		2 k	8 ks	ne.	ne.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.91	759 7	29.93	760.2	58	14.4	86	calm	0	0			10 n		calm	0.02	0.5	light rain	J. McWilliams.
Fort Garry, Manitoba*	29.31	744.5	30.12	765.0	55	12.8	86	e.	6	2.7			10 ks		s.	0	0	cloudy	James Stewart.
Halifax, N. S*	29.96	761.0	30.09	764.3	61	16.1	93	se.	10	4.5			10 n		se.	0	0	cloudy	A. Allison.
Kingston, Ontario*	29.52	749 8	29.84	757.9	69	20.6	97	sw.	9	4.0			10 ks		sw.	0.48	12.2	clearing	A. P. Knight, M. A.
Montreal, Quebec*	29.65	753.1	29.85	758.2	64	17.8	97	w.	3	1.3			10 n			0.07	1.8	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.18	741.2	29.85	758.2	65	18.3	90	w.	10	4.5		5 k	5 ks	w.	w.	0.08	2.0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.25	742.9	29.91	759.7	70	21.1	95	sw	4	1.8		3 k	0	sw.		inap.	inap.	fair	H. Morgan.
Port Stanley, Ontario	29.31	744.5	29.93	760.2	67	19.4	90	w.	8	3.6			10 n		nw.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.57	751.1	29.89	759.2	58	14.4	90	e.			3		10 n		e.	0.40	10.2	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.35	745.5	29.79	756 7	64	17.8	97	calm	0	0			fg			0.67	17.0	dense fog	W. H. McIntyre.
Sangeen, Ontario*	29.20	741.7	29.90	759.4	62	16.7	93	nw.	10	4.5			10 n			0.01	0.3	cloudy	
St. Andrews, N. B	29.91	759.7	29.90	761.0	58	14.4	93	sse.	1	0.4			10 n			0.08	2.0	cloudy	
Sydney, C. B*	30.06	763.5	30.12	765.0	61	16.1	84	calm	0	0		3 ck	0	w.		0.03	0.8	fair	T. C. Hill, C. E
Toronto, Ontario*	29.52	749.8	29.88	758.9	71	21.7	79	w.	12	5.4		5 ck	5 ks	w.	w.	0.13	3.3	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.93	760.2	29.99	761.7	63	17.2	93	se.	8	3.6		c	8 k		s.	0	0	cloudy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.53	724.6	29.95	760.7	66.0	18.9	89	wnw.			3	10 k	0	wnw.		0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.99	761.7	30.24	768.1	65	18.3	63	sw.	1	0.4		0	0			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.12	765.0	30.15	765.8	67.0	19.4	73	ne.	10.1	4.5		0	2 s			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.04	763.0	30.08	764.0	67.0	19.4	77	ssw.	9	4.0		10	10			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.71	754.5	29.73	755.2	79.2	26.2	90	se.	8.9	4.0		8 cs	0			0	0	al. covered	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	30.24	768.1	30.29	769.3	68.7	20.4	73	se.	7	3			6						Oversergent Fischer.
Finöe	30.30	769.7	30.32	770.2	63.0	17.2	74	nw.			4		2						Overloerer Lauridsen
Godthaab, Greenland	29.54	750.2	29.58	751.3	42.4	5.8	85	calm			0		10			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.43	747.4	29.47	748.5	54.7	12.6	62	s.			4		8					raining	A. O. Thorlacius.
Thorshavn	29.97	761.2	30.00	762.1	55.4	13.0	89	w.	25	11			5						Overloerer Bergh.
Vestervig	30.25	768.3	30.34	770.6	62.2	16.8	69	wnw.			2		1						Loerer Oesterbol.
French.																			
Agen, Normal School	29.66	753.4	30.29	769.4	74.8	23.8	50	calm			0		0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.82	757.4	30.37	771.4	61.5	16.4	59	wnw.			1		k		w.	0	0		M. Nicot, Director.
Arras, Engineer School	30.07	763.8	30.32	770.2	64.2	17.9	78	ne.			1		kn		ne.	0	0		M. Fénéon, Command't.
Avignon, Normal School	30.02	762.4	30.10	764.4	75.6	24.2	39	n.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.77	756.2	30.32	770.1	66.6	19.2	40	se.			1		6		ne.	0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	30.09	764.3	30.35	770.9	68.2	20.1	65	nnw.			1		8		nnw.	0	0	very cloudy.	M. Frère Eugène Marié.
Besançon, Normal School	29.35	745.6	30.23	767.8	68.4	20.2	62	ne.			1	2 ck	0		ne.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	30.02	762.6	30.28	769.2	71.1	21.7	36	ne.			2		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.78	756.4	30.32	770.0	71.6	22	43	nne.			2	c	0		nne.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.14	765.6	30.39	771.8	73.0	22.8	68	sw.			1		9		sw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.32	770.2	30.39	772.0	69.8	21	50	n.			1		8		n.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch't	30.00	762.0	30.32	770.0	69.8	21.0	45	ne.			2		5		ne.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.81	757.2	30.32	770.0	72.3	22.4	50	ene.			1					0	0		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.92	734.6	30.26	768.5	66.2	19.0	45	n.			2	0	5 k		nne.	0	0	½ covered	M. Allnard, Director.
Cluny, Normal School	29.43	747.5	30.25	768.3	69.3	20.7	36	ne.			4		3		nne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.48	748.7	30.34	770.6	67.1	19.5	45	nne.			1		2 kne		nne.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.54	699.5	29.99	761.8	71.2	21.8	37	ne.			2	1	2 k		se	0	0		M. Jeanginard, Director.
Gréasque, du Rhone	28.94	735.1	30.01	762.2	83.1	28.4	21	w.			2		0			0	0	clear	M. Kina, Director.
Grenoble, Normal School	29.37	746.0	30.12	765.1	65.8	18.8	77	nw.			1		kn		ne.	0	0		M. Ablard, Director.
Guéret, Normal School	28.78	731.0	30.31	769.8	65.3	18.5	44	ne.			1		1		ne.	0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.14	765.5	30.41	772.4	73.4	23	59	n.			1		2		n.	0	0	slightly cl'dy	M. Ollitrault, Director.
Lescar, Normal School	29.71	754.7	30.24	768.2	69.8	21.0	50	n.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.28	769.2	30.39	771.8	72.1	22.3	58	sw.			1		8		n.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.19	741.3	30.23	767.8	66.7	19.3	54	nnw.			2	c	5 n		n.	0	0	fair	M. André, Director.
Mans, Normal School	30.04	763.0	30.35	770.8	68.5	20.3	88	ese.			1		2		nne.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.77	756.1	30.03	762.7	81.5	27.5	28	wnw.			2		0			0	0		M. Stephan, Director.
Montlouis	25.03	635.7	29.87	758.7	65.3	18.5	29	nw.	15.0	6.7			0			0	0	foggy	M. Cave, for Dr. Fines.
Montpellier, Normal School	29.90	761.0	30.09	764.2	82.4	28	49	nnw.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.53	750.1	30.30	769.7	65.5	18.6	52	wnw.			1	ck	0		ne.	0	0		M. Hasse, Director
Nantes, Observatory	30.27	768.8	30.43	772.9	75.7	24.3	42	ene.			0–1	0	5 k		n.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.03	762.7	30.13	765.3	81.9	27.7	19	n.	18.6	8.3			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.51	546.4			53.6	12.0		se.			1		0			0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.04	737.6	30.07	763.8	71.8	22.1	35	e.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.40	645.2			44.1	6.7	85	ne.			3		2 k		ne.	0.068	0.2	¼ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.21	767.4	30.24	768.2	75.2	24	100	nnw.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.04	763.1	30.20	768.6	72.3	22.4	50	nnw.			1		5		ne.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.14	714.8	30.26	768.7	66.0	18.9	48	n.			1		c			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.35	770.8	30.39	772.0	70.5	21.4	62	nw.			1		5		sw.	0	0	cloudy	M. Brotier.
Saint Maur, Observatory	30.17	766.4	30.34	770.6	70.9	21.6	49	nne.			1		7		n.	0	0		M. Renou, Director.
Toulouse, Observatory	29.58	751.2	30.30	769.7	75.7	24.3	32	nw.			2		0			0	0	clear	M. Baillaud, Director.
Tours	30.15	765.9	30.33	770.4	72.7	22.6	46	nne.			1		2		nne.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.85	758.1	30.34	770.6	70.2	21.2	50	ne.			1					0	0		Dr. A. Berigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.07	763.7	30.36	771.1	69.1	20.6	50	wnw.			1		8		nw.	0	0	clear	M. Marié Davy, Director
German.																			
Ansbach	28.85	732.9	30.29	769.3	61.5	16.4	69	n.			4		7	n.		0.110	2.8		Prof. Jnedt.
Bamberg	29.44	747.8	30.30	769.7	65.7	18.7	66	nw.			3	0	7 k		w.	0.020	0.5		Prof. Dr. Hoh.
Berlin	30.16	766.0	30.33	770.4	73.4	23.0	44	n.			2		7			1.142	29.0		Prof. Dr. Arndt.
Breslau	29.61	752.0	30.14	765.5	66.9	19.4	64	n.			2		10			0.189	4.8		Royal University Obs'y.
Carlsruhe	29.87	758.6	30.30	769.7	66.2	19.0	54	ne.			1		9	s.		0	0		Albert Senz.
Cassel	29.58	751.2	30.29	769.3	68.0	20.0	54	nw.			4		2	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.94	760.4	30.30	769.5	67.5	19.7	55	nne.			1		6			0	0		Physical Society.
Friedrichshafen	28.85	732.7	30.28	769.0	60.8	16.0	84	sw.			1		8	nne.		0.028	0.7		Wilhelm, Chief Tel.
Hamburg	30.25	768.3	30.34	770.7	64.6	18.1	62	nw.			3		7			0	0		E. Preller.
Kiel	30.30	769.5	30.31	769.9	66.0	18.9	68	ne.			2		4			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.85	758.2	30.26	768.7	66.0	18.9	71	n.			4		8	n.		0.217	5.5		H. Leppig, Asst.
Magdeburg	30.07	763.7	30.25	768.4	69.8	21.0	65	nw.			2	0	6 ks		n.	0	0		Dr. Assmann.
Memel	30.16	766.1	30.21	767.3	68.9	20.5	60	n.			4	0	3 k			0	0		Isserimann
Munich	28.45	722.6	30.33	770.4	56.5	13.6	81	w.			1		10	w.		0.220	5.6		Dr. C. Lang.
Neufahrwasser	30.24	768.1	30.20	768.5	65.5	18.6	70	n.			4		6			0	0		A. Lothes.
Neustadt, Palatinate	29.76	755.8	30.29	769.4	65.5	18.6	57	n.			2		9	n.		0	0		Dickneither.
Stuttgart	29.34	745.2	30.22	767.7	63.5	17.5	63	n.			3		10			0	0		Prof. Dr. Schoder.
Wustrow	30.32	770.2	30.35	770.8	65.8	18.8	84	nw.			4	0	5 ks			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.24	742.6			97.0	36.1		sw.			3.0		0			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.52	749.9	29.57	751.2	84.0	28.9	72	wsw.	27.0	12.1			4		w.	0	0	d. clouds	
Deesa	29.68	738.5	29.54	750.3	86.1	30.1	58	sw.	12.0	5.4			5	wsw.	wsw.	0.02	0.5	d. clouds	
Bombay	29.66	753.2	29.69	754.2	81.8	27.7	82	w.	13.0	5.8			9	w.	wsw.	0.38	9.6	d. clouds	
Poona, Yarrowda	27.83	709.8	29.68	753.9	75.8	24.3	71	wsw.	19.0	8.5			8	w.	w.	0.06	1.5	d. clouds	
Trichinopoly	29.43	747.5	29.75	754.5	91.5	33.1	37	wnw.	5.0	2.2			10			0	0	overcast	
Bellary	28.19	716.0	29.64	752.8	84.0	28.9	55	w.	12.2	5.4			10	s.		0	0	gloomy	
Belgaum	27.18	690.5	29.73	755.0	72.5	22.5	80	wsw.	15.0	6.7			7	e.	sw.	0.09	2.3	showery	
Lahore	28.76	730.5	29.49	749.1	83.0	28.3	83	nw.	2.0	0.9			6			1.83	46.5	d. clouds	
Roorkee	28.59	726.1	29.47	748.4	83.8	28.8	83	n.	1.0	0.4			6			1.09	27.7	thunder	
Agra	28.92	734.7	29.48	748.8	83.2	28.4	85	sw.	4.1	1.8			6		s.	1.63	41.4	d. clouds	
Nagpur	28.53	724.6	29.56	750.7	82.5	28.1	69	nw.	4.2	1.9			8		nw.	0	0	d. clouds	
Jubbulpore	28.23	717.0	29.57	751.1	80.4	26.9	78	nw.	4.0	1.8			9			0	0	overcast	
Lucknow	29.13	739.8	29.50	749.2	85.1	29.5	74	n.	3.0	1.3			7	ene.		0	0	d. clouds	
Allahabad	29.16	740.6	29.46	748.4	83.8	28.8	80	calm	3.2	1.4			9			0	0	d. clouds	
Patna	29.33	744.9	29.51	749.6	83.0	28.3	87	nnw.	3.1	1.4			8	nnw.	nnw.	0.28	7.1	d. clouds	
Hazaribagh	27.52	699.0	29.51	749.6	76.8	24.9	90	nnw.	7.1	3.2			10	n.	s.	0.79	20.1	thund'r st'm	
Cuttack	29.41	747.0	29.49	749.1	82.9	28.3	80	w.	1.0	0.4			6			0	0	d. clouds	
Calcutta, Alipore	29.44	747.8	29.46	748.3	85.8	29.9	76	ese.	5.0	2.2			7		s.	0.13	3.3	d. clouds	
Dhubri	29.39	746.5	29.51	749.5	82.0	27.8	91	calm	1.6	0.7			10			0	0	overcast	
Chittagong	29.45	747.9	29.54	750.2	81.7	27.6	90	calm	2.8	1.2			9			0.04	1.0	d. clouds	
Sibsagar	29.13	739.9	29.46	748.2	89.1	31.7	79	sw.	2.5	1.1			10	w.	w.	0	0	d. clouds	
Jeypore	28.09	713.5	29.51	749.6	82.7	28.2	75	wnw.	6.0	2.7			7		wnw.	0.03	0.8	d. clouds	
Zanzibar, Africa	30.01	762.2			79.3	26.3	68	s.	4.2	1.9			3		sse.	0.08	2.0	d. clouds	
Italian.																			
Udine	29.55	750.5	29.94	760.4	79.9	26.6	51	sw.	3.8	1.7			5			0	0		Prof. Giovanni Cloding.
Milan	29.80	749.3	29.99	761.8	81.5	27.5	21	w.	4.3	1.9			3	nw.		0	0		Prof. Schiaparelli.
Padua	29.83	757.6	29.93	760.3	81.9	27.7	20	wnw.	4.3	1.9			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.13	740.0	30.00	762.0	80.4	26.9	22	sw.	2.5	1.1			0			0	0		Prof. P. F. Denza.
Genoa	29.81	757.1	29.99	761.8	81.5	27.5	20	n.	4.9	2.2			0			0	0		Prof. G. M. Garibaldi.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Mondovi	28.15	715.0	29.98	761.6	74.5	23.6	25	w.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	29.92	760.0	29.97	761.2	76.6	24.8	45	n.	3.8	1.7			1			0	0		Prof. Luigi Guidi.
Florence	29.70	754.4	29.94	760.4	84.2	29.0	19	n.			4		2			0	0		Prof. Costantino Pitter
Leghorn	29.85	758.2	29.93	760.3	78.1	25.6	53	wnw.	1.3	0 6			0			0	0		Prof. P. Monte.
Rome	29.76	756.0	29.93	760.3	82.2	27.9	21	n.	15.0	6.7			0			0	0		Prof. P. S. Ferrari.
Lecce	29.60	751.8	29.84	757.9	76.6	24.8	42	nnw.	22.4	10.0			0			0	0		Prof. C. de Giorgi
Cosenza	29.04	737.5	29.88	759.0	81.7	27.6	71	wsw.	4.3	1.9			3	sw.		0	0		Prof. D. Conti.
Cagliari	29.80	756.8	29.98	761.5	79.0	26.1	41	s.			4		1			0	0		Prof. A. Pacinotti.
Palermo	29.72	755.0	29.97	761.1	77.7	25.4	50	nw.	22.4	10.0			3	nw.		0	0		Prof. G. Ciacciatore.
Syracuse	29.84	757.9	29.88	759.0	79.9	26.6	48	ene.	16.8	7.5			1	sw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.37	746.1	29.87	758.8	81.3	27.4	52	sw.	7.4	3.3			3	w.		0	0		Prof. T. Brioschi.
Stelvio	22.34	567.4			43.2	6.2	52	ne.			2		8			0	0	covered	Prof. P. F. Denza.
Valdobbia	22.37	568.1			50.9	10.5	56	e.			2		5			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.85	758.2	29.86	758.4	68.2	20.1	93	se.	3.0	1.3			0			0	0	clear	
Hiroshima, I. M. Obs'y					81.2	27.3	85	sw.	0.8	0.4		2 cs	3 ck		s.	0	0		I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.71	754.6	29.88	758.9	80.7	27.1	84	s.	2.9	1.2			9 ck;s		se.	0	0	cloudy	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.62	752.2	29.81	757.1	79.6	26.4	89	ne.	2.1	0.9		1 ck	0			0	0	clear	S. Takehayashi.
Nemuro	29.90	759.4	29.96	761.0	65.0	18.3	86	s.	6.0	2.7		0	0			0	0	clear	
Niigata	29.85	758.2	29.89	759.2	75.3	24.1	94	ese.	0.6	0.3			10 ck			0	0	covered	M. Morita.
Nobiru	29.86	758.4	29.87	758.8	77.5	25.3	86	se.	8.9	3.9		0	0			0	0	clear	H. Midzushima.
Osaka	29.85	758.2	29.86	758.4	81.0	27.2	80	w.	6.6	3.0		2 ck	5ks;ck	s.	s.	0	0	fair	
Sapporo					70.7	21.5	95	se.	4.2	1.9			4			0	0	clear	
Tokei Obs'y, Yeddo	29.81	757.2	29.88	758.9	78.7	25.9	92	ssw.	4.9	2.2		1 cs	8 ks		s.	0	0	cloudy	The Staff.
Wakayama	29.83	757.7	29.88	758.9	80.8	27.1	81	ssw.	2.5	1.1		0	6		e.	0	0	fair	Y. Kuwamnea.
MAURITIUS																			
Mauritius Observatory	29.98	761.5	30.17	766.3	71.5	21.9	60	ese.	21.0	9.4		c	4k;ks;n		ese.	0.01	0.3	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato																			Prof. Vicente Fernandez.
Leon	24.37	619.0	30.01	762.2	59.4	15.2	95	nnw.			1	6 c	0	sw.		0.894	22.7	cloudy	Prof. M. Leal.
Mazatlan	29.76	755.9	30.02	762.5	77.0	25.0	95	ene.	1.6	0.8		0	6 n		nw.	0	0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.19	589.0	30.26	768.5	52.2	11.2	82	calm	0	0		2 c	2 ks			0.032	0.8	fine	The Staff.
Morelia	24.18	614.2	30.23	767.8	60.1	15.6	70	se.			3	3	3	s.	s.	c.209	5.3	½ cloudy	M. Tena, M. D.
Orizaba	26.14	663.8	30.06	763.4	59.2	15.1	79	s.	0.9	0.4		1	2	se.	e.	0	0	clear	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.03	610.5	30.02	762.6	61.5	16.4	90	se.			1	1 c	6 k	e.	e.	inap.	inap.	cloudy	M. V. de Leon, M. E
Puebla, Catholic Institute	23.40	595.8	30.27	768.5	50.0	10.0	85	calm	0	0		0	0			0.268	6.8	clear	Prof. P. Spina.
San Luis Potosi	24.31	617.5	30.27?	767.87	65.3	18.5	65	ese.					10		e.	0	0	covered	G. Barroeta, M. D.
Zacatecas	22.08	576.0	30.29	769 5	53.1	11.7	84	n.	3.0	1.3		5 c	0			0	0	½ cloudy	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.36	771.1	30.36	771.1	66.4	19.1		w.			3					0	0		
Groningen	30.29	769.3	30.34	770.7	63.7	17.6		n.			1					0	0		
Helder	30.32	770.2	30.32	770.2	66.6	19.2		sw.			2					0	0		
Hellevoetsluis	30.35	770.8	30.35	770 8	67.5	19.7	73	wnw.			1					0	0		
Utrecht	30.30	769.6	30.35	770.8	68.9	20.5	68	sw.			2		2			0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.21	767.2	30.27	768.8	57.2	14.0	80	sse.	16	7			10			0.268	6.8	raining	
Brono	30.00	762.1	30.04	763.1	63.0	17.2	50	sw.	18	8			8			0	0		
Christiania	30.07	763.7	30.21	767.3	72.5	22.5	48	ssw.	20	9			8			0	0		
Gjæsvær	30.02	762.5	30.04	763 1	58.5	14.7		calm			0		10						
Lodingen	30.00	761.9	30.04	763.1	59.2	15.1	52	sw.			1		5			0	0		
PORTUGUESE.																			
Angra, Azores					75.2	24.0	75	e.	18.6	8.3			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.04	737.7	29.97	761.3	94.1	34.5	21	w.	3.1	1.4			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.08	764.0	30.16	766.1	83.7	28.7		sw.	2.5	1.1			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29 75	755.6	30.10	764.4	79.5	26.4	41	n.	19.2	8.6			0			0	0		The Staff.
Ponta Delgada, Azores	30.32	770.1	30.39	771.9	77.0	25.0	58	ese.	9.8	4.4			5			0	0		
Saint Paul de Loando	29.92	760.0	30.13	765.2	66.0	18.9	89	ne.	0.7	0.3			10			0	0		
Serra da Estrella	25.50	647.6	30.06	763.5	68.5	20.3	26	ene.	13.0	5.8			1			0	0		
RUSSIAN.																			
Akmolinski	28.89	733.8	29.94	760.5	63.9	17.7	38	ne.	11	5		3 c	0			0	0		Major K. Lasarew.
Archangel	29.93	760.2	29.95	760.7	58.1	14.5	75	wsw.	18	8			10			0	0	light clouds	Capt. Sselliwerstow.
Astrakhan	30.12	765.0	30.04	762.9	82.9	28.3	35	ese.	25	11		2 cs	0			0	0	light clouds	Capt. Wisganow.
Barnaul	29.28	743.6	29.76	756.0	57.0	13.9	59	nnw.	4	2			9			0.004	0.1		Meteorological Obs'y.
Dorpat	29.96	761.0	30.20	767.0	71.6	22.0	57	n.	9	4		cs	8 k			0	0		Observatory.
Ekaterinburg	29.06	738.1	29.97	761.2	81.7	27.6	36	w.	9	4		cs	2 k			0	0		Meteorological Obs'y.
Irkutsk	27.99	710.9	29.59	751.5	55.6	13.1	89	wnw.	4	2			10 s;n			0.413	10.5		
Kasan	29.74	755 5	29.99	761.8	95.4	35.2	29	w.	4	2		0	3 k			0	0		Observatory.
Kertch	29.66	753.4	29.68	753.9	86.5	30.3	66	ene.	20	9		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.15	740.5	29.73	755.2	92.5	33.6	27	sse.	18	8		0	0			0	0		Observatory.
Lugan	29.67	753 5	29.85	758.3	99.1	37.3	12	ese.	34	15			5			0	0	light clouds	Meteorological Obs'y.
Moscow	29.47	748 4	29.89	759.3	94.1	34.5	27	ssw.	4	2			0						Meteorological Obs'y.
Nikolaiev	29.67	753.7	29.74	755.5	97.7	36.5	35	se.	0	0		0	1 k			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.48	748.9	29.03	752.5	82.2	27.9	71	calm	0	0		0	2 k			0	0		Physical Observatory.
St. Petersburg	30.15	765.8	30.17	766.2	66.0	18.9	65	wnw.	16	7		cs	2 k			0	0		Central Physical Obs'y.
Semipalatinsk	29.21	742.0	29.80	758.4	60.1	15.6	49	w.	11	5			5			0.031	0.8		Major Lasarew
Tashkend, Laboratory	28 11	714.0	29.57	751.1	84.4	29.1	48	calm	0	0			1			0	0		Teich, A. M.
Tiflis	28.48	723.5	29.80	756.9	95.9	35.5	17	s.	9	4		1 cs	0			0	0		Physical Observatory.
Vladivostock	29.65	753.2	29.72	754.9	69.1	20.6	93	se.	9	4		0	8 n						
Warsaw	29.61	752 1	30.02	762.6	64.9	18.3	81	nne.	13	6			10ks;n					light rain	Astronomical Obs y.
Wilna	29.71	754.7	30.12	765.1	69.1	20.6	74	ne.	4	2			10			0.016	0.4	heavy cld's	Berg, Assistant.
Yeniseisk	29.54	750.2	29.82	757.3	57.4	14.1	98	w.	4	2			10			0.047	1.2	raining	M. C. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.03	762.7	30.13	765.3	77.5	25.3	62	se.	4.3	1.9			0					clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.26	768 7	30.32	770.2	79.5	20.4	43	ne	1.8	0.8		2	0	nw.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.30	693.4	30.20	767.1	67.5	19.7	42	n.	11.9	5.3			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.90	708.6	30.00	762.0	87.3	30.7	34	ne.	3.8	1.7		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director
Santiago, Met. Obs'y	29.29	744.0	30.17	766.3	72.0	22.2	54	n.	14.3	6.4			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I																			Benito Vines, S. J.
Manilla, Philippine Islands	29.68	753.8	29.74	755 3	76.1	24.5	92	nw.	9.9	4.4			10 n		sw.	6.901	176.8	heavy rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.96	760.9	30.05	763 3	81.5	27.5	37	e.	21.1	9.4		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.98	761.5	30.07	763.8	76.3	24.6	82	se.	1.1	0.5		3 k	6 kn	se.	se.	0.118	3.0	raining	Manuel Maese.
Tuguegarao, Philippine Id's	29.56	750.8	29.69	754.1	78.0	25.6	93	ese.	2.9	1.3		3 cs	7 ks	e.	ese.	0.29	7.4	rainy	José L. Yrastorza.
SWEDISH																			
Haparanda	30.13	765.4	30.17	766.4	59.4	15.2	56	sw.			4		5			0	0		
Umea	30.18	766.5	30.23	767.8	66.0	18.9	53	ssw.			4		1			0	0		
Hernosand	30.16	766.0	30.21	767.3	66.2	19.0	46	s.			6		0			0	0		
Stockholm	30.13	765.2	30.30	769 7	69.4	20.8	36	sw.			2		0			0	0		
Wisby	30.19	766.7	30.24	768.2	64.8	18.2	54	nne.			4		0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill		
Swedish—Continued.																			
Sub-series.																			
Upsala	30.16	766.1	30.25	768.3	70.7	21.5	44	ssw.	5.1	2.3			1			0	0		S. G. Fineman.
Swiss.																			
Geneva	28.81	731.7	30.21	767.2	63.5	17.5	63	nne.			5					0	0	clouds	The Observatory
Scottish.																			
Monach Lt			30.23	767 8	58	14.4	94	w.			4	3	5	w.		0.2	5.		J. Youngclause.
North Unst			30.11	764.8				w.			6		10						
Turkish.																			
Constantinople			29.63	752.6	88.3	31.3	45	ene.	14	6.5			0			0	0		The Observatory.
Valona			29.93	760.3	79.2	26.2		nw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.67	753.6	89.1	31.7	60	sw.			3	3 ck	0	sw.		0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.84	757.9	29.92	760.0	80	26.7	67	sw.	2	0.9		0	hz.			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.28	743.7	29.92	760.0	60	15.6	81	w.	12	5.4		2 k	0	w.		0.52	13.2	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.07	636.8	29.81	757.2	63	17.2	84	ne.	1	0.4		0	0			0.15	3.8	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.21	691.1	29.94	760.5	58	14.4	86	sw.	4	1.8		0	5 8		se.	0.07	1.8	fair	B. O. Lenoir.
Atlanta, Georgia	29.00	736.6	30.15	765.8	71.0	21.7	90	w.	8	3.6			10 8			0.08	2.0	cloudy	H. Hall.
Atlantic City, New Jersey	29.95	760.7	29.96	761.0	80	26.7	72	w.	5	2.2		0	0			0	0	clear	Jas. M. Watson
Augusta, Georgia	29.98	761.5	30.17	766.3	77.0	25.0	84	calm	0	0		2 ck	0	sw.		0.01	0.3	clear	John Healy.
Baltimore, Maryland	29.98	761.5	30.03	762.7	81	27.2	67	nw.	4	1.8		1 cs	hz.	n.		0	0	clear	Robert Seyboth.
Barnegat, New Jersey	29.94	760.5	29.96	761.0	81.0	27.2	69	w.	8	3.6		0	hz.			0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.35	720.1	29.89	759.2	64	17.8	78	se.	7	3.1		0	1 k		calm	0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.24	691.9	29.95	760.7	58	14.4	64	nw.	5	2.2		0	4 8			0.11	2.8	fair	G. W. Davis.
Behring Island, Behring Sea	29.54	750.3	29.50	750.8	49.2	9.6		e.	24	10.7			10 8			0.27	6 9	heavy rain	Dr. L. Steineger.
Bismarck, Dakota	28.27	718.0	29.99	761.7	60	15.6	87	e.	14	6.3			10 8		e.	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.91	759.7	29.94	760.5	76.2	24.6	85	nw.	2	0.9		3 c	hz.	sw.		0	0	clear	J. T. Elker.
Boise City, Idaho	27.25	692.1	29.97	761.2	64	17.8	58	n.	1	0.4		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.79	756.7	29.94	760.5	65.0	18.3	100	se.	4	1.8			fg.			0	0	dense fog	O. B. Cole.
Brownsville, Texas	29.96	761.0	30.00	762.0	79.4	26.3	91	se.	4	1.8		0	0			0.14	3.6	clear	M. McCarty.
Buffalo, New York	29.18	741.2	29.91	759.7	72.7	22.0	78	s.	12	5.4		2 ck	6 ks	w.	w.	0.31	7.9	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.01	711.4	29.95	760.7	56	13.3	74	e.	17	7.6		4 k	0	e.		0	0	fair	A. H. Bell.
Burlington, Vermont	29.58	751.3	29.86	758.4	71.5	21.9	83	s.	6	2.7			10 n		w.	0.02	0.5	light rain	G. C. Schaeffer.
Cairo, Illinois	29.69	754.1	30.08	764.0	73.8	23.2	88	sw.	7	3.1			10 8		sw.	inap.	inap.	cloudy	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.27	692.6	29.86	758.4	75	23.9	64	se.			1	2 cs	1 k	sw.	sw.	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.00	762.0	30.02	762.5	79	26.1	77	w.	11	4.9		0	0			0.02	0.5	clear	A. K. Alderson.
Cape May, New Jersey	29.97	761.2	30.00	762.0	75.0	23.9	85	w.	5	2.2		hz.	hz			0	0	clear	W. E. Smith.
Cape Mendocino	29.44	747.8						n.	30	13.4		0	fg.			0	0	clear	J. R. Williams.
Cedar Keys, Florida	30.15	765.8	30.17	766.3	78	25.0	88	ne.	2	0.9		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.20	741.7	29.98	761.5	72.0	22.2	79	nw.	3	1.3		0	hz.			0	0	dense haze	L. A. Welsh.
Charleston, S. Carolina	30.08	764.0	30.13	765.3	81	27.2	79	w.	6	2.7		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.24	742.7	30.08	764.0	81.0	27.2	69	sw.	1	0.4		0	hz.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.31	744.5	30.11	764.8	71.0	21.7	90	sw.	5	2.2			10 ks		sw.	0.26	6.6	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.12	612.6	29.81	757.2	50.2	10.1	86	sw.	1	0.4		0	0			inap.	inap.	clear	E. McGovern.
Chicago, Illinois	29.28	743.7	29.97	761.2	72.0	22.2	82	sw.	5	2.2		0	0			0.16	4.1	clear	J. Mitchell.
Chincoteague, Virginia	29.98	761.5	30.00	762.0	80	26.7	82	nw.	7	3.1		0	0			0	0	clear	V. P. Temple.
Cincinnati, Ohio	29.40	746.7	30.04	763.0	77.0	25.0	76	s.	4	1.8			10 ks		sw.	0	0	cloudy	J. F. Harrold.
Cleveland, Ohio	29.25	742.9	29.97	761.2	72.3	22.4	68	s.	4	1.8		7 k	0	w.		0	0	fair	J. B. Newlin.
Coleman City, Texas	28.25	717.5	30.01	762.2	71	21.7	84	se.	1	0.4		3 c	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.18	741.2	30.01	762.2	72	22.2	66	sw.	1	0.4			10 ks		sw.	0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.11	714.0	29.99	761.7	69	20.6	84	calm	0	0		0	0			0	0	clear	W. W. McConihe.
Custer, Fort, Montana	26.80	680.7	29.82	757.4	65	18.3	54	n.	6	2.7		0	6 8		calm	0	0	fair	V. Verge.
Davenport, Iowa	29.36	745.7	29.99	761.7	71	21.7	71	calm	0	0		6 cs	0	calm		0.21	5.3	fair	R. R. Martin.
Davis, Fort, Texas	25.22	640.6	29.86	758.4	73	22.8	57	calm	0	0		0	8 ks		sw.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.46	722.9	30.17	766.3	44.7	7.1	90	calm	0	0		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.40	645.1	29.82	757.4	60.0	15.6	62	sw.	5	2.2		1 c	0	w.		0	0	clear	G. W. Scott.
Decatur, Texas					75	23.9	56	se.	6	2.7		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del	29.99	761.7	30.01	762.2	75	23.9	85	w.	8	3.6		0	hz.			0	0	clear	A. Schneider.
Denison, Texas	29.23	742.4	30.01	762.2	72.3	22.4	84	s.	6	2.7		3 cs	0			0	0	clear	J. McGlone.
Denver, Colorado	24.80	629.9	29.81	757.2	57.0	13.9	83	s.	2	0.9		2 cs	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.15	740.4	30.03	762.7	65	18.3	78	n.	4	1.8		5 cs	5 8	n.	n.	inap.	inap.	cloudy	F. W. Conrad.
Detroit, Michigan	29.30	743.2	29.95	760.7	72.0	22.2	82	sw.	4	1.8			10 8		sw.	0.18	4.6	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.36	694.9	29.86	758.4	68.0	20.0	69	s.	10	4.5		0	2 ks		ne.	0.13	3.3	clear	W. M. Mattingly.
Dubuque, Iowa	29.33	745.0	30.02	762.5	64.2	17.9	84	w.	1	0.4		6 c	fg.	w.		inap.	inap.	fair	J. Harvey Smith.
Duluth, Minnesota	29.39	746.5	30.11	764.8	52	11.1	86	ne.	6	2.7			10 s		ne.	0.01	0.3	cloudy	N. B. Conger.
Eagle Pass, Texas	29.22	742.2	30.01	762.2	77.0	25.0	76	se.	3	1.3		c	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.32	643.1	29.87	758.7	58	14.4	58	s.	20	8.9		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.90	759.4	29.96	761.0	60.0	15.6	84	s.	6	2.7		5 k	4 8	w.	w.	0.13	3.3	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.38	695.4	30.02	762.5	65	18.3	73	se.	8	3.6			10 8		se.	0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.30	668.0	29.90	759.4	71	21.7	71	nw.	4	1.8			10 8		w.	0	0	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.24	742.7	29.95	760.7	75	23.9	76	sw.	1	0.4		5 c	0			0.03	0.8	fair	Peter Wood.
Escanaba, Michigan	29.37	746.0	30.01	762.2	55	12.8	80	nw.	11	4.9			10 8		nw.	0	0	cloudy	C. Dill.
Fredericksburg, Texas	28.32	719.3	30.02	762.5	72	22.2	90	sw.	2	0.9		5 k	0	sw.		0	0	fair	H. S. Miles.
Galveston, Texas	30.02	762.5	30.08	764.0	79	26.1	77	n.	5	2.2		1 c	9 ks		sw.	0.21	5.3	threatening	E. O'C. MacInerney.
Grand Haven, Michigan	29.29	744.0	29.94	760.5	68.5	20.3	81	n.	7	3.1		0	0			0.23	5.8	clear	W. A. Reid.
Grant, Fort, Arizona	25.34	643.6	29.91	759.7	68.1	20.1	81	se.	2	0.9			10 8			0.50	12.7	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.06	763.5	30.08	764.0	81.0	27.2	88	w.	18	8.0		0	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.91	658.1	29.97	761.2	60	15.6	46	w.	12	5.4		2 c	2 8	w.	w.	0.10	2.5	fair	S. Wheaton.
Henrietta, Texas	29.95	737.9	30.03	762.7	75.0	23.9	76	se.	3	1.3		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.66	728.0	29.98	761.5	58.7	14.8	90	ne.	4	1.8			8 ks		ne.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.22	742.2	29.99	761.7	77	25.0	76	s.	3	1.3		4ck;cs	hz.	sw.		0	0	clear	O. Schutze
Indianola, Texas	30.03	762.7	30.05	763.3	77.1	25.1	82	sw.	13	5.8		0	8 ks;n		sw.	0.29	7.4	light rain	I. A. Reed.
Jacksboro, Texas	28.80	733.0	29.98	761.5	73	22.8	84	s.	3	1.3		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.13	765.3	30.17	766.3	82	27.8	80	se.	1	0.4		2 cs	0	w.		0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.37	695.2	29.78	756.4	69	20.6	57	s.	7	3.1		5 cs	0	s.		0	0	fair	W. B. Stockman.
Keokuk, Iowa	29.34	745.2	29.96	761.0	77.0	25.0	69	n.	1	0.4		0	0			inap.	inap.	clear	F. Z. Gosewisch
Key West, Florida	30.08	764.0	30.10	764.5	82.0	27.8	80	ne.	4	1.8		1 c	4 k		e.	0.14	3.6	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.05	763.3	30.07	763.8	81.0	27.2	82	w.	16	7.2		hz.	0			0	0	dense haze	E. A. Beals.
Knoxville, Tennessee	29.14	740.1	30.14	765.5	69	20.0	97	e.	1	0.4		0	8 8		sw.	2.02	51.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.20	743.2	30.01	762.2	68	20.0	70	sw.	2	0.9		0	0			0	0	clear	S. O. Emery
La Mesilla, New Mexico	26.15	664.2	29.89	759.2	67.5	19.7	82	calm	0	0			10 8			0.01	0.3	cloudy	N. D. Lane.
Leavenworth, Kansas	29.14	740.1	30.00	762.0	75	23.9	64	s.	1	0.4		0	8 n			0.02	0.5	light rain	A. W. Browne.
Lewiston, Idaho	29.37	746.0	30.18	766.6	53.5	11.9	62	e.	2	0.9		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.78	756.4	30.09	764.3	74	23.3	90	sw.	7	3.1		0	2 8		nw.	0	0	clear	W. U. Simons.
Los Angeles, California	29.67	753.6	30.06	763.5	59.1	15.1	81	s.	2	0.9			10 8			0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.47	748.5	30.02	762.5	75	23.9	85	calm	0	0			8s;sk			0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.39	746.5	30.06	763.5	78.0	25.9	66	calm	0	0		hz.	2 8			0.06	1.5	clear	W. R. Bushby.
Macon, Fort, North Carolina	30.08	764.0	30.09	764.3	79	26.1	88	w.	12	5.4		hz.	hz.			0	0	light haze	F. P. Chaffee.
Madison, Wisconsin	29.02	737.1	30.00	762.0	65	18.3	78	nw.	7	3.1		1 c	0	w.		0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.64	651.2			56	13.3	42	nw.	30	13.4		7 k	0	sw.		0	0	fair	H. W. Dodge.
McKavett, Fort, Texas	27.86	707.6	30.06	763.5	71	21.7	84	calm	0	0		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.35	745.5	30.06	763.5	52	11.1	93	nw.	13	5.8			10 8		nw.	0.04	1.0	cloudy	J. Gilligan.
Memphis, Tennessee	29.77	756.1	30.10	764.5	76	24.4	85	s.	4	1.8			10 8			0.34	8.6	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.20	743.2	29.98	761.5	65	18.3	84	n.	9	4.0		1 c	0			0.21	5.3	clear	W. Line.

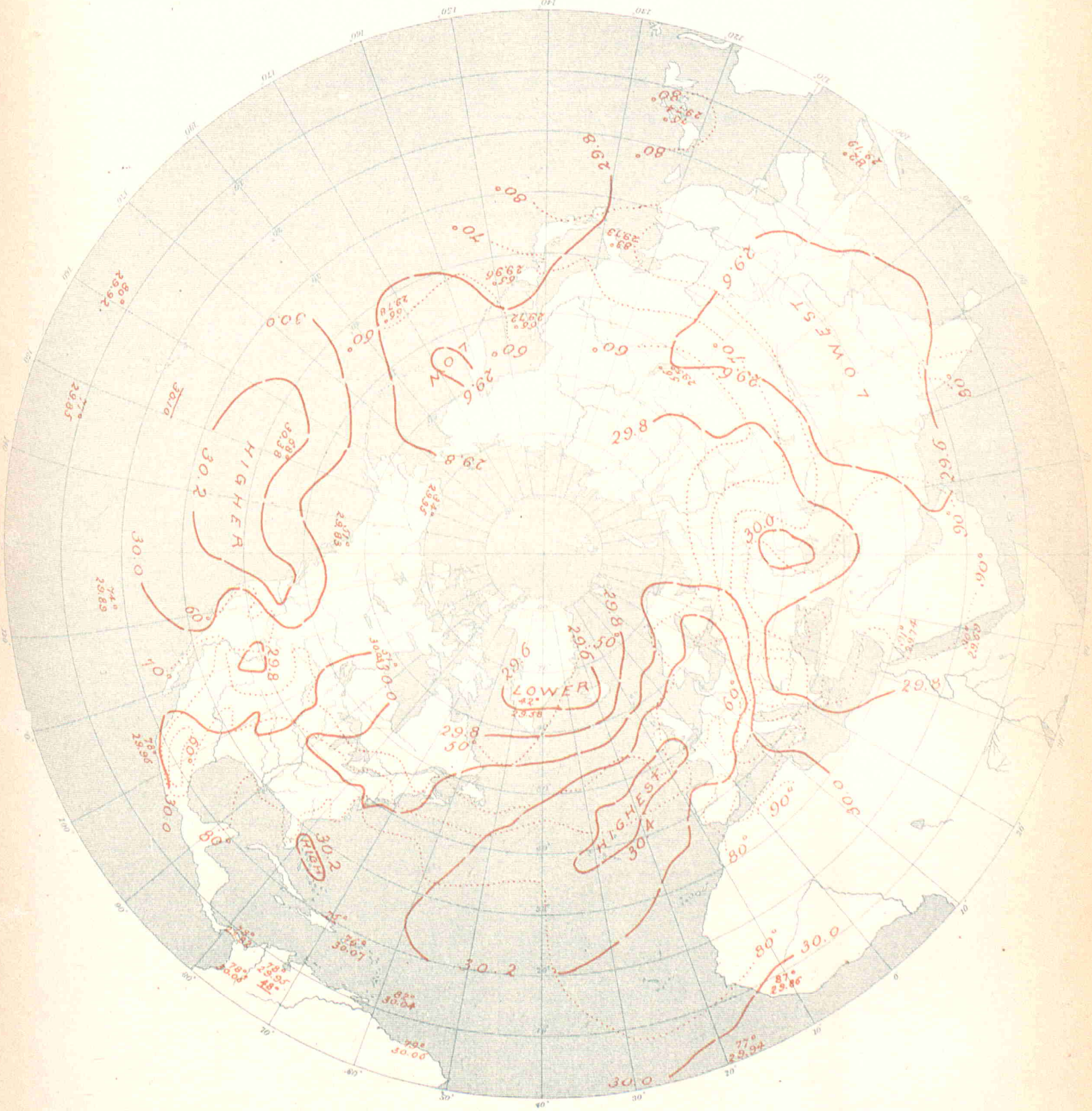
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER	OBSERVERS
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.89	683.0	30.08	764.0	47	8.3	71	e.	3	1.3		0	0			0	0	clear	J. H. Jones.
Mobile, Alabama	30.12	765.0	30.16	766.1	75	23.9	97	ne.	3	1.3		0	9 s			0.09	2.3	cloudy	C. A. Read.
Montgomery, Alabama	29.95	760.7	30.17	766.3	72.3	22.4	89	calm	0	0			10 s		w.	0.11	2.8	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.09	738.9	30.05	763.3	57	13.9	93	ne.	3	1.3			10 s		n.	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.07	738.4	30.07	763.8	70.5	24.7	81	sw.	5	2.2		2 ck	0			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.89	606.8	29.95	761.0	51.0	10.6	93	nw.	41	18.3			10 s		nw.	0.48	12.2	cloudy	J. G. Livsley
Nashville, Tennessee	29.56	750.8	30.08	764.0	74.0	23.3	84	sw.	2	0.9			10 ks		sw.	0.07	1.8	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.82	757.4	29.93	760.2	70	24.4	82	calm	0	0		0	sk.			0.01	0.3	clear	J. H. Sherman.
New London, Connecticut	29.89	759.2	29.94	760.5	72	22.2	90	calm	0	0			fg.			0	0	dense fog	J. G. Lynch.
New Orleans, Louisiana	30.07	763.8	30.12	765.0	76.7	24.8	97	e.	1	0.4			10 s		e.	1.14	29.0	cloudy	L. Dunne.
Newport, Rhode Island	29.90	759.4	29.95	760.7	72.9	22.7	97	sw.	3	1.3			fg.			0	0	dense fog	W. McGillivray
New York, New York	29.80	756.9	29.97	761.2	75.5	24.2	79	sw.	3	1.3		0	hz.			0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.00	762.0	30.04	763.0	82	27.8	80	w.	5	2.2		0	0			0.50	12.7	clear	H. L. Kemp.
North Platte, Nebraska	27.10	688.3	29.90	759.4	64.6	18.1	88	ne.	4	1.8		0	4 s			0.93	23.6	fair	E. F. Brady.
Olympia, Washington Ty.	30.21	767.3	30.25	768.3	53.0	11.7	80	calm	0	0		10 k	0	n.		0.01	0.3	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.93	760.2	29.95	760.7	34.2	1.2	98	ne.	22	9.8			10 s		ne.	0.03	0.8	cloudy	P. H. Ray.
Omaha, Nebraska	28.88	733.5	30.01	762.2	69.3	20.7	89	nw.	1	0.4			10 n		nw.	0.27	6.9	light rain	A. Pollak.
Oswego, New York	29.56	750.8	29.88	758.9	76.5	24.7	71	s.	2	0.9			10 s		sw.	0.05	1.3	cloudy	S. W. Beall.
Palestine, Texas	29.56	750.8	30.10	764.5	75.0	23.9	88	s.	8	3.6		5 ck	0	s.		0	0	fair	L. M. Pindell
Pensacola, Florida	30.12	765.0	30.15	765.8	75.1	23.9	97	e.	3	1.3			10 s		s.	0.10	2.5	cloudy	M. McGauran.
Philadelphia, Pa.	29.89	759.2	29.99	761.7	80	26.7	67	w.	2	0.9		0	hz.			0	0	clear	T. F. Townsend
Pike's Peak, Colorado	18.00	457.2	29.78	756.4	35	1.7	79	nw.	7	3.1		0	1 s		w.	0.50	12.7	clear	L. M. Dey.
Ploche, Nevada	24.12	612.6	29.85	758.2	62.0	16.7	29	sw.	4	1.8		0	0			0	0	clear	C. N. Kitchel
Pittsburg, Pennsylvania	29.21	741.9	30.00	762.0	75.0	23.9	76	w.	7	3.1		9 ck	0	sw.		0	0	cloudy	J. H. Bryce.
Poplar River, Montana	27.85	707.4						se.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.13	765.3	30.14	765.5	78.4	25.8	90	s.	3	1.3		0	4 k		s.	0.05	1.3	fair	M. Hermann.
Port Huron, Michigan	29.27	743.4	29.93	760.2	69.0	20.6	85	calm	0	0			10 s		w.	0.03	0.8	cloudy	W. O. Bailey.
Portland, Maine	29.88	758.9	29.93	760.2	60.5	19.2	81	s.	3	1.3		0	4 s		s.	0.03	0.8	fair	W. W. Eichelberger.
Portland, Oregon	30.18	766.6	30.24	768.1	49.0	9.4	93	nw.	2	0.9		0	1 s			0	0	clear	M. L. Hearne
Prescott, Arizona	24.88	631.9	29.87	758.7	60	15.6	67	s.	2	0.9		0	0			0	0	clear	J. McN. Wright
Provincetown, Mass.	29.93	760.2	29.96	761.0	69.0	20.6	93	calm	0	0			fg.			0	0	dense fog	P. T. Jenkins.
Punta Rassa, Florida	30.13	765.3	30.14	765.5	78	25.6	89	e.	4	1.8		1 c	0	calm		0.21	5.3	clear	W. J. Evans.
Red Bluff, California	29.52	749.8	29.88	758.9	77.0	25.0	28	n.	8	3.6		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.80	756.9	30.03	762.7	80	26.7	82	se.	5	2.2		0	0			0	0	clear	P. M. Wilson
Rochester, New York	29.25	742.9	29.90	759.4	70	21.1	93	sw.	5	2.2		5 k	5 s; hz	sw.	sw.	0.22	5.6	cloudy	E. W. McHann
Roseburg, Oregon	29.64	752.8	30.18	766.6	49.3	9.6	87	calm	0	0		0	0			0	0	clear	J. J. Naury.
Sacramento, California	29.81	757.2	29.88	758.9	62.9	17.2	68	calm	0	0		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.44	747.8	30.02	762.5	75.0	23.9	88	w.	5	2.2		2c; hz	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.19	741.4	30.03	762.7	63	17.2	90	nw.	4	1.8		2 cs	0	nw.		0	0	clear	P. F. Lyons
St. Vincent, Minnesota	29.25	742.9	30.09	764.3	55	12.8	93	ne.	5	2.2			10 s		n.	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.60	650.2	29.78	759.4	65	18.3	38	n.	4	1.8		6 k	0	sw.		0	0	fair	J. Craig.
San Antonio, Texas	29.36	745.7	30.04	763.0	75.5	24.2	90	calm	0	0			10 s		se.	0	0	cloudy	T. J. Kenan.
San Diego, California																			A. C. Dobbins.
Sandusky, Ohio	29.27	743.4	29.93	760.2	74.0	23.3	68	sw.	10	4.5			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.91	759.7	29.94	760.5	77.0	25.0	82	w.	8	3.6		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.88	758.9	29.95	760.7	55	12.8	83	w.	4	1.8		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.35	593.1	29.85	758.2	54	12.2	77	e.	4	1.8		3 k	5 s	w.	w.	0.19	4.8	cloudy	H. U. Jones.
Savannah, Georgia	30.08	764.0	30.17	766.3	82.3	27.9	65	w.	1	0.4		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.47	672.3	29.98	761.5	51	10.6	61	w.	9	4.0		6 k	0	sw.		0.18	4.6	fair	A. L. Mathews.
Shreveport, Louisiana	29.88	758.9	30.10	764.5	74	23.3	97	e.	2	0.9			10 s		e.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	29.79	756.3	29.99	761.7	71	21.7	76	se.	4	1.8		9 ck	0	w.		0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.38	619.2	29.84	757.9	63	17.2	60	w.	5	2.2		0	3 s		w.	0.37	9.4	clear	J. B. Wallace.
Sitka, Alaska	29.77	756.1	29.83	757.7	50.5	10.3	86	calm	0	0			10 n			0.22	5.6	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.58	751.3	30.04	763.0	72.2	22.3	82	e.	4	1.8		6 cs	0	w.		0	0	fair	J. B. Campbell.
Smithville, North Carolina	30.08	764.0	30.11	764.8	81	27.2	79	w.	9	4.0		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.14	714.7	30.12	765.0	54	12.2	57	sw.	7	3.1		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.34	745.2	30.00	762.0	74.5	23.6	76	w.	3	1.3		0	7 s		w.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.80	756.9	29.93	760.2	79.0	26.4	69	ne.	3	1.3		2 k	hz.			0	0	clear	T. S. Outram.
Springfield, Mo.	28.65	727.7	30.04	763.0	72	22.2	82	s	1	0.4		0	3 s		s.	0	0	clear	J. B. Marbury
Starkville, Miss.	29.66	753.4	30.13	765.3	73.7	25.9	77	s.	6	2.7		3 cs	3 ks		s.	inap.	inap.	fair	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.24	717.3	30.02	762.5	56	13.3	93	e.	6	2.7			10 s		e.	0	0	cloudy	W. Burrows
Stockton, Fort, Texas	27.01	686.0	29.95	760.7	72.0	22.2	76	se.	16	7.2			10 s		nw.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass.	29.99	759.4	29.95	760.7	66.0	18.9	93	se.	1	0.4			fg.			0	0	dense fog	G. Liebmann
Toledo, Ohio	29.25	743.2	29.93	760.2	73	22.8	66	w.	6	2.7			8 s		w.	0	0	cloudy	A. Buell.
Tucson, Arizona	27.60	701.0	29.92	760.0	76	24.4	69	e.	3	1.3		0	5 ks			inap.	inap.	fair	J. L. Whiteside
Umatilla, Oregon	29.88	758.9	30.24	768.1	56	13.3	74	n.	2	0.9		0	0			0	0	clear	J. Daly.
Uvalde, Texas	29.06	738.1	30.00	762.0	76	24.4	85	se.	6	2.7			10 ks		se.	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona					68.6	20.3	49	s.			1	0	0			0	0	clear	D. Brooks
Vicksburg, Mississippi	29.88	758.9	30.12	765.0	74	23.3	97	se.	5	2.2			9 n		se.	0.10	2.5	light rain	H. P. Brisbane.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.52	622.8	29.85	758.2	49.8	9.9	50	w.	7	3.1		2 k	0			0	0	clear	T. M. Ambler.
Washington, D. C.	29.92	760.0	30.03	762.7	78.4	25.8	77	calm	0	0		0	0			0.17	4.3	clear	B. M. Purssell
West Las Animas, Colorado	26.06	661.9	29.82	757.4	60.1	15.6	84	calm	0	0		2 c	2 s	w.		0	0	fair	F. W. Brandenburg
Williamsport, Pa.	29.40	746.7	29.98	761.5	70	21.1	87	calm	0	0			fg.			0	0	dense fog	B. F. Hough.
Wilmington, N. Carolina	30.06	763.5	30.11	764.8	78	25.6	88	w.	5	2.2		0	0			0	0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.62	650.7	29.84	757.9	58	14.4	34	ne.	8	3.6		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.71	729.2	29.99	761.7	65	18.3	73	e.	2	0.9		9 cs	0			0	0	cloudy	J. H. Attield.
Yuma, Arizona	29.70	754.4	29.84	757.9	81.0	27.2	77	calm	0	0		0	0			0	0	clear	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			48.0	8.9	53	calm	0	0		0	4 ks; 8		s.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.03	762.7	30.01	763.0	82	27.8	91	ne.					10 ks			0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.03	762.7	30.06	763.5	78	25.6	86	calm	0	0			10 ks		calm	0	0	cloudy	J. I. Plume.
Kingston, Jamaica, W. I.																			Robert Johnston.
Magua, San Domingo, W. I					75	23.9		calm			0	0	0			0	0		S. M. Pike.
Navassa	29.89	759.2	29.97	761.2	81.5	27.5	78	ne.	5	2.2		4 k	2 s	e.	ne.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	79	26.1	91	ne.			2	5 ck	4 k	e	e.	0.300	7.6	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.39	746.5	29.95	760.7	78	25.6	84	calm			0		9 n		calm	inap.	inap.	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							98	se.			2	0	2 ks		se.	0.27	6.9	fair	Earl Flint.
Santiago de Cuba, W. I.	30.03	762.7	30.05	763.3	79	26.1	78	n.	2.4	1.1		2 ck	0			0.40	10.2	clear	Robert Mason.
York Factory, B. A.	30.03	762.7	30.09	764.3	51.0	10.6	93	e.	14	6.3		1 c	2 s	se.	e.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, N. 1° 21′, W. 18° 25′	30.14	765.5	76.5	24.7	70	se.			3		5							d. clouds.
H. M. S. Amethyst, S. 33° 39′, W. 51° 18′	29.73	755.1	56	13.3	93	w.			6		10					4	w.	overcast.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.64	752.8	80	26.7		nnw.			4									blue sky.
H. M. S. Bacchante, N. 38° 05′ W. 11° 00′	30.16	766.1	70	21.1	79	nnw.			6		0					6	nnw.	misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.11	764.8	63	17.2		var.			1		2	e.						d. clouds.
H. M. S. Champion, Yokohama, Japan			82	27.8	95	calm			0		2							d. clouds.
H. M. S. Comus, N. 49° 14′, W. 141° 40′	29.86	758.4	56	13.3	87	s.			4-6		10					5	wsw.	misty.
H. M. S. Diamond, S. 9° 01′, E. 160° 05′	29.90	759.4	80	26.7	87	calm			0		2	ese.						d. clouds.
H. M. S. Dido, N. 14° 50′, W. 61° 30′	30.06	763.5	80	26.7		var.			1-3									showery.
H. M. Dock Yard, Bermuda, W. I.	30.06	763.5	81	27.2	84	ssw.			2		3	ssw.						d. clouds.
H. M. S. Druid, N. 42° 25′, W. 45° 39′	30.27	768.8	74.5	23.6	88	s.			1-2		2					1	ssw.	d. clouds.
H. M. S. Dwarf, S. 33° 35′, W. 51° 35′	29.77	756.1	52.5	11.4	100	nnw.			4-5		10					2-3	w.	showery.
H. M. S. Eclipse, N. 19° 35′, E. 39° 07′	29.69	754.1	90	32.2		wsw.			6		3					3	wsw.	misty.
H. M. S. Emerald, N. 22° 05′, W. 29° 20′	30.16	766.1	75	23.9	100	nne.			2-3		4	nne.				2	ne.	d. clouds.
H. M. S. Euryalus, N. 28° 00′ E 33° 40′	29.74	755.4	91	32.8	76	calm			0		0							blue sky.
H. M. S. Espiegle, S. 17° 35′, E. 108° 16′	29.87	758.7	76	24.4	90	wsw.			1		10							overcast.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.04	763.0	59	15.0	91	w.			1		10							d. clouds.
H. M. S. Garnet, N. 26° 40′, W. 34° 00′	30.33	770.4	77	25.0	82	nne.			5		4							d. clouds.
H. M. S. Griffon, N. 50° 33 W. 57° 21′	29.92	760.0	51	10.6	78	sw.			3									d. clouds.
H. M. S. Iron Duke, N. 50° 50′, E. 142° 06′	29.72	751.9	66	18.9	100	s.			1		5	s.						d. clouds.
H. M. S. Kingfisher, N. 48° 10′, W. 124° 50′	30.22	767.6	50	10.0		wsw.			2		2							d. clouds.
H. M. S. Lark, S. 1° 24′, E. 161° 52′	29.95	760.7	82.3	27.9	86	ese.			2		10					2	e.	overcast.
H. M. S. Liffey, Coquimbo, Chili	30.10	764.5	53.5	11.9		calm			0		10							d. clouds.
H. M. S. Magpie, N. 35° 06′, E. 129° 03′	29.78	756.4	78.8	26.0	83	sw.			1		2	ssw.				1	ne	d. clouds.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.72	754.9	81.5	27.5	82	wnw.			3		4	e.				2	wnw.	d. clouds.
H. M. S. Nelson, S. 35° 16′ E. 174° 08′	29.30	744.2	58	14.4	87	nw.			4									showery.
H. M. S. Northampton, Halifax, Nova Scotia	30.00	762.0	60	15.6	97	ese.			2									foggy.
H. M. S. Pegasus, N. 5° 24′. E. 100° 20′	29.79	756.7	81.5	27.5	82	calm			0		10							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Is'd	30.16	766.1	65	18.3	100	sse.			1		9							showery.
H. M. S. Rocket, Vancouver Island, B. C.	30.21	767.3	51	10.6	93	wsw.			2		2							d. clouds.
H. M. S. Sappho, N. 9° 00′ W. 149° 00′	29.85	758.2	76.5	24.7		s.			4-5		6	ne.				3	ne.	d. clouds.
H. M. S. Swiftsure, S. 44° 10′, W. 61° 45′	29.97	761.2	45.5	7.5	76	s.			6		10	s.				6	s.	squally.
H. M. S. Sylvia, Montevideo, Uruguay	29.80	756.9	46.0	7.8	88	w.			4		7							d. clouds.
H. M. S. Tenedos, N. 51° 28′ W. 56° 51′	30.07	763.8	51	10.6	93	s.			1-2		4					1	wsw.	d. clouds.
H. M. S. Thetis, S. 5° 40′ W. 81° 35′	30.02	762.5	61	16.1	94	se.			4		6					3	s.	d. clouds.
H. M. S. Triumph, Sandy Point, Patagonia	30.19	766.8	38	3.3	90	wsw.			1		2	ssw.						d. clouds.
H. M. S. Tyne, N. 38° 18′, W. 34° 21′	30.42	772.7	74	23.3	90	ne.			2		1	e.				1	ene.	blue sky.
H. M. S. Woodlark, Jask Bay, Persia	29.47	748.5	91.5	33.1	80	s.			1-2		3							misty.
PORTUGUESE NAVAL.																		
Rio Lima, Bulama, Senegambia	30.13	765.4	79.7	26.5	88	w.			1		8			15 h'r	15 h'r			raining.
Tamega, Macao, China	29.68	753.9	85.1	29.5	81	sse			2		2							blue sky.
SWEDISH NAVAL.																		
Saga, N. 63° 36′, E. 5° 03′	29.92	760.0	57.6	14.2	99	ssw.			7		10							overcast.
UNITED STATES NAVAL																		
Navy Yard, Pensacola, Fla	30.06	763.5	78	25.6	73	ene.	1	0.4			10		ne.	0.03	0.8			cloudy.
Navy Yard, Portsmouth, N. H.	29.94	760.5	66	18.9	89	calm	0	0			10			0	0			foggy.
Naval Hospital, Yokohama, Japan*	29.71	754.6	79	26.1	91	ssw.			1		0			0	0			clear.
Adams, Mare Island, Cal						sw.			2		0			0	0	sm'h		clear.
Alaska, Callao, Peru	29.97	761.2	59	15.0	94	calm			0		8			0	0	sm'h		cloudy.
Alliance, Provincetown, Mass	29.97	761.2	72	22.2	90	calm			0		10			0	0	sm'h		overcast.
Ashuelot, Yokohama, Japan*	29.77	756.1	80	26.7	96	ssw.			2		2		calm					clear.
Brooklyn, Rio de Janeiro, Brazil	30.17	766.3	70	21.1	95	nnw.	0	2.7			5		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.93	760.2	78	25.6	82	sw.	2	0.9			0			0	0			hazy.
Constellation, New York, N. Y*	29.99	761.7	78	25.6	73	wsw.			1		0							clear.
Enterprise, Provincetown, Mass*	29.94	760.5	70	21.1	95	calm			0		10		calm			sm'h		foggy.
Essex, Valparaiso, Chili	30.13	765.3	52	11.1	73	se.			1		8?		se.			sm'h	se.	clear.?
Franklin, Norfolk, Va	30.04	763.0	79	26.1	86	wsw.	6	2.7			2		calm	0.13	3.3			clear.
Galena, Gibraltar, Mediterranean	30.13	765.3	73	22.8	95	w.			1		2		ne.			sm'h	ne.	fair.
Independence, Mare Island, Cal	29.92	760.0	56	13.3	100	sw.			5		0			0	0			clear.
Iroquois, N. 37° 17′ W. 122° 36′	29.96	761.0	57	13.9	87	w.			3		2							clear.
Kearsage, Norfolk, Va	30.05	763.3	79	26.1	95	w.			1		0							clear.
Lackawanna, Callao, Peru*	30.00	762.0	60	15.6	94	w.			1		8		s.					cloudy.
Lancaster, Messina, Italy*	29.89	759.2	86	30.0	82	ne.			3		2		n.	0	0	sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	29.77	759.1	47	8.3	100	wnw.			4		10		w.	0	0	mod.	sw.	cloudy.
Michigan, Green Bay, Wisconsin	29.97	761.2	63	17.2	83	nne.			3		10		nne.					cloudy.
Minnesota, Newport, R. I	29.99	761.7	73	22.8	100	calm	0	0										foggy.
Monocacy, Chefoo, China	29.73	755.1	83	28.3	75	ssw.			2		5		ne.			sm'h		fair.
New Hampshire, Newport, R. I	29.95	760.7	72	22.2	95	calm			0		10					sm'h		foggy.
Nipsic, Tripoli, Africa*	29.98	761.5	80	26.7	66	n.			3		5		n.			long	n.	fair.
Onward, Callao, Peru†	30.13	765.3	59	15.0	94	nw.			1		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.81	757.2	80	26.7	91	wsw.			2		8		sw.					fair.
Passaic, Washington, D. C.	30.07	763.8	78	25.6	91	w.			1		0							clear.
Pensacola, Panama, Panama*	29.82	757.4	78	25.6	95	nw.	4	1.8			2		nw.	0	0			clear.
Portsmouth, Genoa, Italy*	29.94	760.5	81	27.2	96	n.			2		2					sm'h		clear.
Powhatan, N. 27° 00′ W. 84° 28′	30.16	766.1	87	30.6	80	ese.			2		8		ese.			light	se.	cloudy.
Quinnebaug, Alexandria, Egypt	29.74	755.4	81	27.2	87	w.			3		8		calm			sm'h		cloudy.
Ranger, Mare Island, Cal	29.92	760.0	59	15.0	82	sw.			4		0			0	0			clear.
Richmond, Yokohama, Japan*	29.80	756.9	80	26.7	100	ssw.			2		0			0	0			clear.
Saratoga, Genoa, Italy	29.95	760.7	82	27.8	83	w.			2		2		w.	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.21	767.3	79	26.1	74	w.			1		0			0	0			clear.
Swatara, N. 33° 47′, E. 136° 21′*	29.73	755.1	81	27.2	87	ssw.			3		0					sm'h	sw.	clear.
Tennessee, Provincetown, Mass	29.98	761.5	73	22.8	90	n.			1		10							dense fog.
Vandalia, Portsmouth, N. H*	29.91	759.7	65	18.3	94	sw.			1		8		calm					fair.
Wabash, Boston, Mass	29.98	761.5	66	18.9	94	e.	2	0.9						0	0			dense fog.
Wachusetts, Fort Wrangle, Alaska†	30.15	765.8	53	11.7	93	ene.			3		10		calm			sm'h		rainy.
Wyoming, Port Royal, S. C*	30.16	766.1	78	25.6	78	w.	6	2.7			2		calm	0	0			clear.
Yantic, Boston, Mass	29.96	761.0	69	20.6	95	nw.			2		10							foggy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
Allan Line																		
S. S. Grecian, Glasgow, Scotland*	30.27	768.8	69	20.6		wsw.			2		10		w.					overcast.
S. S. Scandinavian, N. 55° 12′ W. 11° 41′*	30.10	766.1	57	13.9		ssw.			4		5		ssw.	shr's	shr's	mod.	sw.	showery.
American Steamship Company.																		
S. S. Lord Clive, N. 45° 52′, W. 41° 05′						sw.			3		2		s.	0	0	sm'h	wsw.	fine.
S. S. Lord Gough, N. 48° 07′ W. 46° 33′	30.13	765.3	57	13.9		ese.			2		2		e.	8 h'r	8 h'r	mod.	s.	fair.
Anchor Line.																		
S. S. Ethiopia, New York, N. Y.	29.93	760.2	79.0	26.1	90	sw.			3		0			0	0			clear.
S. S. Galatia, Bombay, India†	29.99	761.7	86	30.0		wsw.			5		8		wsw.	3 h'r	3 h'r	mod.	sw.	showery.
S. S. India, N. 41° 29′, W. 03° 19′*	30.00	762.0	68	20.0	100	calm			0									foggy.
S. S. Utopia, N. 48° 19′ W. 31° 56′†	30.42	772.7	66	18.9	68	ssw.			2		5		wsw.	8 h'r	8 h'r	light	sw.	fair.
Atlas Line.																		
S. S. Ailsa, N. 11° 59′, W. 75° 32′†	29.92	760.0	81	27.2	82	ene.			5		5		ene.	0	0	r'gh	e.	hazy.
S. S. Alpin, N. 24° 06′, W. 68° 06′	30.12	765.0				ese.			3		4		ese.	0	0	mod	se.	
S. S. Alvo, Colon, U. S. C.	29.94	760.5				nne.			3		5		nne.	4 h'r	4 h'r		n.	fair.
S. S. Antillas, Sandy Hook, N. J.*†	30.20	767.1				calm			0									
Boston and Halifax Line.																		
S. S. Carroll, Straits of Canso†	30.06	763.5	68	20.0		ene.			3		0			0	0			fine.
British Meteorological Office.																		
Auckland, S. 30° 01′, W. 33° 26′	30.26	768.6	67	19.4	79	n.			4		3							blue sky.
S. Baroda, S. 20° 27′, E. 2° 47′	30.28	769.1	63.5	17.5	78	sse.			5		7							d. clouds.
S. S. City of Agra, S. 28° 15′, W. 35° 18′	30.36	771.1	70	21.1	90	ene.			3		3							d. clouds.
Bk. Commewyne, N. 33° 20′, W. 57° 51′	30.19	766.8	78	25.6	82	sw.			4		9							showery.
S. S. Gordon Castle, N. 40° 30′, W. 73° 44′	29.93	760.2	79	26.1	78	wsw.			3		0							misty.
S. S. Markland, S. 35° 30′, W. 77° 31′	30.01	762.2	55	12.8	92	s.			2		10					4	sse.	d. clouds.
May Hulse, N. 20° 36′, W. 31° 25′	30.14	765.5	77.4	25.2	76	ne.			4		7							d. clouds.
S. Oamaru, S. 20° 22′, W. 0° 34′	30.32	770.1	66.3	19.1	68	se.			4		4							d. clouds.
Cunard Line																		
S. S. Bothnia, N. 44° 47′, W. 43° 42′	30.22	767.6	75	23.9	90	w.			3		5?		w.	0	0		w.	clear?
S. S. Gallia, Off Liverpool, Eng.	30.29	769.4	62	16.7		nw.			4		5		nw.	0	0	sm'h		fine.
S. S. Scythia, New York, N. Y.	29.95	760.7	79	26.1	82	w.			1		0			0	0			clear.
General Trans-atlantic Company.																		
S. S. France, N. 49° 47′ W. 13° 12′ †	30.34	770.7	57.2	14.0		nw.			3	ck		nw.		0	0	sm'h	w.	covered.
S. S. Ville de Marseilles, N. 37° 02′, E. 3° 55′*†	30.10	764.5	79	26.1		se.			6		0			0	0	mod.	e.	clear.
Hamburg American Packet Company.																		
S. S. Bohemia, N. 41° 59′, W. 63° 29′†	30.01	762.2				wsw.			2		8		sw.	0	0	sm'h	sw.	foggy.
S. S. Gellert, N. 49° 33′, W. 34° 18′	30.23	767.8	68	20.0		s.			2		10		s.	0	0	mod.	s	covered.
S. S. Herder, Hamburg, Germany	30.23	767.8	81	27.2		sse.			2		4		sse.	0	0			fair.
S. S. Silesia, N. 45° 43′, W. 38° 51′†	30.41	772.4	66.2	19.0	94	sw.			4		7		sw.	0	0	3	sw.	fair.
S. S. Westphalia, N. 48° 45′, W. 44° 00′	30.09	763.5	57	13.9	57	wnw.			2		1		nw.	6 h'r	6 h'r	sm'h	ssw.	fair.
Inman Line.																		
S. S. City of Berlin, N. 49° —′, W. 32° —′	30.19	766.8				w.			5		10		sw.	0	0	mod.	w.	
Lamport and Holt's Line.																		
S. S. Hevelius, Montevideo, Uraguay *†	29.80	756.9	54	12.2		s.			8		10		wsw.	6 h'r	6 h'r			cloudy.
Leyland Line.																		
S. S. Bulgarian, N. 44° 01′, W. 48° 32′*	30.19	766.8				wsw.			1		fg.		wsw.	0	0			foggy.
Mallory Line.																		
S. S. Colorado, New York, N. Y.†	29.98	761.5	76	24.4		w.			2		0			0	0			clear.
Mediterranean and New York Steamship Co.																		
S. S. Archimede, Brooklyn, N. Y.*†	30.00	762.0	80	26.7	86	w.			1		0			0	0			clear.
Merchants' Express Line.																		
S. S. Hermod, N. 43° 45′, W. 50° 28′*†	29.88	758.9	66.2	19.0		sw.			1		8		sw.	10 h'r	10 h'r	mod.	sw.	dense fog.
Merchants' Steamship Company.																		
S. S. Glenfyne, N. 26° 58′, W. 63° 05′	29.69	754.1				var.			3				s.	0	0	sm'h	s.	fine.
S. S. Glenapp, N. 30° —′, W. 68° —′†	30.21	767.3				wnw.			2		5		w.	0	0	sm'h		fine.
National Line.																		
S. S. Canada, N. 46° 23′ W. 30° 26′†	30.31	769.9	63	17.2		s.			3		9		s. & w.	0	0	mod.	w.	misty.
S. S. Denmark, New York, N. Y.	29.93	760.2	85	29.4		sw.			1		0			0	0			clear.
S. S. England, N. 44° 52′. W. 39° 28′	30.20	768.6				sw.			3		0			0	0	sm'h		clear.
S. S. Erin, New York, N. Y.	29.93	760.2	86	30.0		sw.			2		0			0	0			
New York and Cuba Mail Steamship Company.																		
S. S. Santiago, Cienfuegos, Cuba, W. I.†	30.12	765.0	84	28.9		ne.			1		1		ne.	2 h'r	2 h'r			fine.
New York, Havana and Mexican Mail.																		
S. S. City of Alexandria, N. 37° 42′, W. 74° 34′	30.11	764.8	8[illegible]	26.7	91	wsw.			2		5		sw.	0	0			fair.
S. S. City of Washington, N. 21° 20′, W. 89° 38′*†	30.20	767.1	78	25.6		e.			2		5		e.	0	0	sm'h	sm'h	fine.
North German Lloyd																		
S. S. Hermann, N. 46° 36′, W. 34° 21′	30.31	769.9	66.2	19.0		wsw.			2		5		wsw.	0	0	mod.	ssw.	fair.
S. S. Leipzig, N. 44° 21′, W. 40° 12′	30.28	769.1	75.0	23.9	90	sw.			4		5		wsw.	2 h'r	2 h'r	mod.	wsw.	fair.
S. S. Neckar, N. 41° 31′, W. 49° 28′	30.24	768.1	73.5	23.1		s.			3		8?		s.	0	0	sm'h	sw.	clear?
S. S. Ohio, N. 49° 54′, W. 4° 05′	30.40	772.1				wsw.			2		5		w.	0	0	sm'h	wsw.	fair.
S. S. Rhein, N. 41° 18′, W. 65° 48′	30.02	762.5				sw.			3		3		sw.	0	0	mod	sw.	fair.
S. S. Salier, N. 50° 17′, W. 3° 01′	30.38	771.0	56.9	10.5		wsw.			3		8		w.	0	0	mod.	w.	cloudy.
S. S. Strassburg, N. 37° 00′, W. 75° 45′	30.02	762.5	80	26.7	91	wsw.			3		0			0	0	sm'h		fair.
Occidental and Oriental Steamship Company.																		
S. S. Arabic, N. 41° 40′, W. 126° 44′*†	30.44	773.2	58	14.4	100	n.			3		5		ne.	0	0	mod.	n.	d. clouds.
S. S. Belgic, N. 42° 10′, W. 153° 03′ †	30.48	774.2	68	20.0	74	sw.			3		2		w.			mod.	sw.	clear.
S. S. Gaelic, N. 41° 17′, E. 172° 50′†	29.78	756.4	66	18.9	73	sw.			5		4		sw.			mod.	s.	fine.
S. S. Oceanic, N. 42° 57′, E. 157° 21′*	29.68	753.9	59	15.0	81	nnw.			5		10		w.			2	nw.	clear.
Ocean Steamship Company.																		
S. S. City of Augusta, New York, N. Y.†	30.03	762.7				w.			1		0			0	0			smoky.
S. S. City of Columbus, N. 34° 07′, W. 75° 50′†	30.12	765.0				wsw.			5		1			0	0	mod.	sw.	clear.
S. S. Seminole, N. 33° 05′, W. 78° 40′†	30.22	767.6	86	30.0	83	sw.			1		1		sw.	0	0	mod.	sw.	clear.
Oregon Railway and Navigation Company.																		
S. S. Oregon, Columbia River, Oregon†	30.27	768.8	56	13.3	87	nw.			1		2		nw.	0	0			fine.
Pacific Coast Steamship Company.																		
S. S. Ancon, N. 32° 40′ W. 117° 16′†	30.00	762.0	61	16.1	88	se.			1		10		se.			sm'h		cloudy.
S. S. City of Chester San Francisco, Cal*†	29.90	759.4	54	12.2	100	nw.			2		10		nw.					cloudy.
S. S. Idaho, Portland, Oregon†	30.28	769.1	52	11.1	86	se.			1		0							clear.
S. S. State of California, N. 45° 08′ W. 124° 16′ †	30.27	768.8	55	12.8	?	nnw.			3		4		nw.			mod.	nw.	fair.
S. S. Victoria, Nanaimo, Vancouver's Island†	30.14	765.5	57	13.9	93	calm			0		5			0	0			fair.
Pacific Mail Steamship Company.																		
S. S. Australia, Sydney, N. S. W.	29.93	760.2	46	7.8	84	sw.			4		0			0	0			misty.
S. S. City of New York, S. 34° 02′, E. 155° 50′†	29.73	755.1	57	13.9	75	s.			6		8		s.	3 h'r	3 h'r	hv'y	ssw.	squally.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.09	764.3	77	25.0	91	nnw.			2		7		nw.	0	0	sm'h		clearing.
S. S. City of Sydney, N. 6° 41′, W. 163° 21′ †	29.92	760.0	80	26.7	78	ne.			4		8		ne.	0	0	mod.	ne.	cloudy.
S. S. City of Tokio, N. 20° 08′, E. 125° 35′†	29.88	758.9	84	28.9	91	ne.			3		2		ne.	½ h'r	½ h'r	mod.	s.	fine.
S. S. Colima, N. 31° 10′, W. 117° 21′†	30.00	762.0	58	14.4	88	wnw.			5		10		wnw.	0	0	mod.	nw.	cloudy.
S. S. Costa Rica, Panama, Panama*†	30.01	762.2	84	28.9	91						6		calm	0	0	sm'h		fair.
S. S. Granada, N. 18° 10′, W. 103° 20′†	29.99	761.0	78	25.6	100	e.			1		2		e.	0	0	sm'h	var.	clear.
Quebec Steamship Company.																		
S. S. Bermuda, St. Pierre, W. I†	30.08	764.0	86	30.0		e.			1		5		e.	sh'rs	sh'rs	sm'h		showery.
Red Star Line.																		
S. S. Belgenland, Philadelphia, Pa.†	30.19	766.8	93	33.9	78	sw.			3		0		sw.	0	0			
S. S. Rhynland, N. 45° 00′, W. 39° 40′	30.25	768.3	73	22.8	?	wsw.			4		0			0	0	sm'h		foggy.
S. S. Switzerland, N. 42° 45′ W. 43° 31′†	30.36	771.1				wsw.			2		1		wsw.	2 h'r	2 h'r	sm'h		clear.
S. S. Vaderland, N. 40° 25′, W. 65° 02′	29.89	759.2	76	24.4	95	ssw.			2		5		nw.	0	0	sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. Schiedam, N. 48° 23′, W. 26° 37′*†	30.19	766.8	64.8	18.2	90	wsw.			4		7		w.	2 h'r	2 h'r	cross		foggy.
S. S. W. A. Scholten, N. 40° 26′, W. 63° 39′	30.01	762.2	76.0	24.4	88	sw.			2		4		sw.	0	0	sm'h	w.	
STATE LINE.																		
S. S. State of Florida, N. 45° 30′, W. 40° 45′	30.18	766.6	67	19.4		ssw.			3		4			0	0	mod.	sw.	clear.
THINGVALLA LINE.																		
S. S. Thingvalla, Christiansand, Norway†	30.52	775.2	75.2	24.0		wsw.			3		3		wsw.	0	0			clear.
W. I. & PACIFIC S. S. CO.																		
S. S. Venezuela, N. 40° —′, W. 60° —′*	30.05	763.3	79	26.1	95	sw.			3		2		ssw.			sm'h		clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 44° 02′ W. 41° 16′	30.27	768.8							3		10			1 h'r	1 h'r	sm'h		raining.
WHITE STAR LINE.																		
S. S. Adriatic, N. 50° 25′, W. 16° 21′†	30.50	774.7	62.5	16.9	94	sw.			4		10		sw.			mod.	wsw.	hazy.
S. S. Celtic, Queenstown, Ireland†	30.43	772.9	62	16.7	88	s			2		8		w.	8 h'r	8 h'r			fair.
S. S. Republic, New York, N. Y.†	30.13	765.3	76	24.4	95	s.			1		3		s.	0	0			d clouds.
WILSON LINE.																		
S. S. Romano, North Sea	30.23	767.8	61	16.1		w.			1		10		nw.	0	0			hazy.
WINSOR LINE.																		
S. S. Catherine Whiting, Providence, R. I.†	30.00	762.0	72	22.2		calm								0	0			dense fog.
MISCELLANEOUS.																		
Bg. Abbie Clifford, N 39° 45′, W. 71° 03′*†	30.06	763.5	76	24.4		sw.			3		2			0	0	sm'h	sw.	
Schr. Ajax, N. 23° 46′, W. 83° 41′†	30.17	766.3				ese.			1		2?		se.	0	0	mod.	e.	cloudy.?
Bk. Alpha, N. 42° 50′, W. 50° 00′†	30.11	764.8	68	20.0		se.			4		3		s.	0	0	sm'h		fair.
Schr Annie Lewis, N. 28° 16′, W. 90° 46′†	30.26	768.6	83	28.3		ese.			1		0			0	0	long	se.	clear.
Bk. Anna Thormann, S. 38° 46′ E. 59° 51′	30.34	770.5	51.4	10.8	94	sw.			6		6 k:n		sw.	sh'rs	sh'rs	long	sw.	squally.
Bk. Argonaut, N 46° 28′ W. 41° 17′*†	30.27	768.8	61.2	16.2		wsw.			3		10		wnw.	0	0	sm'h	wsw.	hazy.
Schr. Asa Eldridge, Punta Rassa, Fla†	30.27	768.8				e.			3		2		ese.	1½ hr	1½ hr			fair.
Bk. Bremen, N. 59° 55′, W. 5° 55′*†	30.00	762.0				sw.			4		6		wsw.	0	0	r'gh	wsw.	fair.
S. S. Burswell, N 45° 09′, W. 1° 00′*†	30.35	770.9	81	27.2		calm			0		2		n.	0	0			very fine.
Bk. Cato, Malmo, Sweden*†	30.34	770.6				wsw.			2		4?			0	0			cloudy?
Bk. Celestina, S. 9° 31′, W. 24° 45′*†	30.11	764.8				e.			3		3		e.	0	0	con.	var.	hazy.
Schr. C. R. Flint, N. 27° 40′, W. 79° 42′†	30.41	772.4	80	26.7		e.			1		0			0	0	sm'h		clear.
S. Cornelius, N 46° 20′, W. 23° 00′*†.	30.68	779.3	66	18.9		wsw.			3		10		w.	0	0	sm'h	w.	misty.
S. S. D. J. Foley, N. 19° 00′, W. 76° 00′†	29.97	761.2				ene.			4		3		e.	0	0	rg'h	ne.	clear.
Schr. Edith R. Seward, N. 21° 51′, W. 71° 15′*†	30.18	766.6	84	28.9		e.			1		3		ene.	0	0	long	e.	fair.
S. E. J. Spicer, New York, N. Y.*	29.94	760.5	81	27.2		wsw.			1		0			0	0			clear.
Bk. E. L. Pettingill, N. 22° 26′, W. 151° 24′†	30.30	769.6				e.			5		5		e.	0	0	mod	ese.	
S. Enoch Train, N. 46° 04′, W. 27° 10′*†.	30.58	776.7				sw.			3		5		sw.	sh'rs	sh'rs	sm'h		hazy.
Bk. Essex, S. 29° 26′ E. 40° 42′*†	30.34	770.6	67	19.4		se.			5		7		ese.	2 h'r	2 h'r	mod.	sw.	squally.
Bk. Franklin, N. 40° 20′, W. 45° 45′*†.	30.60	777.2				wsw.			2		2		w.	0	0	sm'h		fair.
S. Grecian, Hong Kong, China*†	29.76	755.9	88	31.1		se.			3		6?		e.	0	0			clear.?
Bk. Hattie G. McFarland, N. 39° 32′, W. 73° 30′*†	30.05	763.3	76	24.4		wsw.			3		2		w.	0	0	sm'h	sw.	clear.
Bk. Heinrich & Tonio, N. 39° 51′, W. 62° 15′*†	30.28	769.1	79	26.1		sw.			3		0			0	0	light	sw.	clear.
Bk. Horace Scudder, Port of Spain W. I†	30.06	763.5	82	27.8		ese.			1		1		se.	0	0			blue sky
S. Ivy, S. 17° 41′, W. 129° 34′†	30.20	767.1	74	23.3		ese.			4		2		e.	0	0	long	ssw.	clear.
S. Ismir, S. 26° 10′, E. 102° 58′†	30.32	770.1				e.			5		5		e.	0	0	sm'h	e.	fair.
Schr. James Slater, N 20° 10′. W. 62° 30′*†	30.38	771.6	83	28.3		se.			3		10			4 h'r	4 h'r	hv'y	ese	threatening
Schr. Jennie N. Huddell, N. 41° 35′, W. 69° 55′†	30.11	764.8	68	20.0	100	sw.			1		fg.		sw.	0	0	mod.	ese.	hazy.
Bk. Johanne, N. 46° 25′, W. 42° 59′*†.	30.25	768.3	61	16.1		w.			3		1		sw.	0	0	sm'h	w.	foggy.
Bg. John Wesley, St. Jago, Cuba W. I†	29.88	758.9				w.			1		6		ese.	0	0			fair.
Bk. Joseph A. Ropes, S. 26° 13′, W. 36° 45′*†	30.29	769.4	70	21.1	84	e.			3		1		e.	0	0	mod.	sw.	fine.
Bkt. Josephine, N. 23° 14′ W. 81° 14′†	30.11	764.8	85	29.4	71	se.			3		0			0	0	sm'h		hazy.
Bkt. Kryolith, N 43° 29′ W. 61° 53′*†	30.09	764.3				ese.			3							sm'h		foggy.
Light House Tender, Laurel, Key West, Fla†	30.16	766.1	83	28.3		e.			1		6		e.	1 h'r	1 h'r			fair.
Bk. Liberia, N. 23° 47′, W. 60° 17′*	30.20	767.1	82	27.8	91	ene.			6		5			0	0			
S. S. Madrid, N. 49° 05′. W. 9° 55′*†	30.56	776.2	59	15.0		n.					8		n.	0	0	long	w.	fine.
S. S. Nebo, Genoa, Italy*†	29.95	760.7				nne.			3		0			0	0			clear.
S. Orealla, N. 34° 46′, W. 41° —′*	30.24	768.1	81	27.2		se.			1		1		se.	0	0		e.	clear.
S. Paramita, N. 17° 28′ W. 126° 03′†	29.89	759.2	74	23.3		nne.			5		3		nne.	0	0	short	nnw.	clear.
Bk. Sunbeam, N. 38° 08′ W. 66° 42′†	30.23	767.8	80	26.7	82	s.			6		5		s.	0	0	mod	s.	fair.
S. S. Sunbeam, N. 41° 24′, E. 29° 01′	29.67	753.6	77.5	25.3	90	e.			5		3		e.					d. clouds.
S. Sovereign of the Sea, S. 25° 34′, W. 42° 27′*†	30.08	764.0	72	22.2	80	ne.			5		1		nnw.	0	0	mod.	ene.	fine.
Bg. Teneriffe, Sagua la Grande, Cuba, W. I.	29.99	761.7				ne.			2									
Bk. Truro, N. 44° 25′, W. 54° 30′*†	30.06	763.5				nne.			1		10			0	0	sm'h		foggy.
U.S.F.C.S.S. Fish Hawk, Wood's Hole, Mass†	30.15	765.8	73	22.8	90	nne.			3		10			0	0			cloudy.
Bk. Vincenzo Accame N. 37° 48′, W. 13° 50′†	30.55	776.0	73.4	23.0		n.			5									
Schr Viola Reppard, Sharp's Id., Light, Md†	29.95	760.7	81	27.2		w.			2		1			0	0			clear.
Bk. Wm. Wilcox, Buenos Ayres, S. A*†	29.90	759.4	68	20.0		w.			4		2		w.	2 h'r	2 h'r			fair.

International Chart I. July 28, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 29, 1882,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec.	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.03	762.8	77.4	25.2	79	se.			1		3			inap.	inap.	pretty fair	Bouvier.
Algiers			30.09	764.2	75.9	24.4	71	ene.			2		0			0	0	clear	Nicolas.
La Calle			30.06	763.4	81.3	27.4	67									0	0		Fonfrède.
Tunis			30.03	762.8															Jacques.
Saida			30.03	762.8	90.3	32.4	32	s.			1		2			0	0	fair	Perès.
Tebessa			30.04	762.9	76.6	24.8	83	n.			1		0			0	0	clear	Derché.
Gerlville					92.8	33.8	9	wsw.			4		1			inap.	inap.	very fair	Lonchamp.
Laghouat			30.06	763.6	96.4	35.8	43	w.			1		4			0.118	3.0	cloudy	Abraham.
Biskra			30.05	763.3	89.6	32.0	33	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.98	761.5	30.07	763.8	45.1	7.3	71	n.	7	3.1			10			0.01	0.3	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.28	743.6	29.81	757.2	64.4	18.0	64	n.			3		9			0.102	2.6		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.00	736.5	29.73	755.1	73.8	23.2	52	calm	0	0			10			0	0		Dr. Wierzbiski.
Eperies	28.93	734.7	29.77	756.2	68.0	20.0	83	calm			0		8 ks		n.	1.126	28.6		Julius Mikolik.
Gratz	28.57	725.6	29.78	756.3	66.7	19.3	79	nw.			4		10			0.146	3.7		Andreas Rospini.
Hermannstadt	28.37	720.7	29.74	755.3	73.0	22.8	66	nnw.			3		5			0	0		Prof. A. Gottschling
Kremsmunster, Obs'y	28.58	725.9	29.92	759.9	52.7	11.5	95	wnw.			2		10			0.866	22.0	raining	The Staff.
Lemberg	28.78	731.1	29.71	754.5	80.8	27.1	65	s.			2		4			1.201	30.5		Dr. T. Stanecki.
Polin	29.72	754.9	29.83	757.6	78.3	25.7	54	se.			3		4			0.197	5.0	thunder	I. R. Hydrographic Office.
Szathmar	29.34	745.1	29.78	756.4	69.3	20.7	77	nw.			1		5			0.079	2.0		Joseph Midlinszky, S. J.
Szegedin	29.49	749.1	29.76	756.0	64.8	18.2	80	s.			2		6			0	0		Karl Stancel.
Trieste	29.75	755.6	29.85	758.2	74.8	23.8	50	e.			2		10			0	0		Royal Academy.
Vienna	29.11	739.4	29.82	757.3	59.7	15.4	77	w.			5		7			1.965	49.9		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.03	762.7	30.13	765.3	65.0	18.3	65	s.	19	8.5			5			0	0	squally	W. Boswell
Armagh, Observatory	29.99	761.7	30.22	767.0	58.8	14.9	78	ssw.	9	4.0			10					gloomy	S. Call.
Bidston, Liverpool Obs'y					65.9	18.8	68	wnw.	6	2.7			1					blue sky	John Hartnup.
Bolton, Sharples	29.03	752.6	30.16	766.1	67.7	19.8	66	wsw.	18	8.0			3					blue sky	Thomas Mackereth, [ton.
Bradford, Yorkshire	29.74	755.4	30.13	765.3	68.0	20.0	60	nw.			2		7			0	0	d. clouds	McLandsborough & Pres-
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	76.0	24.4	92	ne.			1		8					overcast	Corpl. J. Surgenor, A. H. C.
Cardington			30.20	767.1	71.6	22.0	73	s.			0.2		10					overcast	John McLaren.
Chatham, School M. E.	30.10	764.5	30.23	767.8	69.3	20.7	62	ne.			1		3					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	30.01	762.2	30.24	768.1	66.4	19.1	68	nnw.			1		5					d. clouds	The Staff.
Fort Napier, Natal	27.66	702.6	29.88	758.9	74.0	23.3	30	e.			1		1					blue sky	Pvt. Lane, A. H. C.
Free Town, Sierra Leone	29.69	754.1	29.92	760.0	81.0	27.2	80	nw.			1		7					raining	Sergt. John Robinson.
Gibraltar, Mediterranean	29.94	760.5	29.99	761.7	76.0	24.4	81	e.			4		7					gloomy	Cpl. O. Baldwin.
Glasgow, Observatory	29.96	761.0	30.16	766.1	65.9	18.8	58	wsw.			4		7					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.04	763.0	30.21	767.3	73.2	22.9	52	ne.			1		3					d. clouds	The Staff.
Guernsey	29.93	760.2	30.23	767.8	62.0	16.7	88	nw.			1		0					foggy	A. Collenette, F. M. S.
Kew, Observatory	30.18	766.6	30.22	767.6	67.4	19.7	70	ne.	3	1.3			9					misty	The Staff.
Leicester, Museum	29.96	761.0	30.21	767.3	64.2	17.9	80	n.			1		0					misty	J. C. Smith.
Malta, Mediterranean	29.86	758.4	29.94	760.5	76.8	24.9	68	n.			1		1					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.10	764.5	30.15	765.8	83.5	28.6	83	ne.			3		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.70	754.4	30.22	767.0	67.2	19.6	66	n.			2		2					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.99	761.7	30.22	767.6	68.4	20.2	77	s.			1		8					d. clouds	The Staff.
Plymouth	30.15	765.8	30.23	767.8	66.0	18.9	78	s.			2		1					d. clouds	John Merrifield.
Sandwick Manse, Orkneys																			Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.63	752.6	29.69	754.1	93.8	34.3	47	ne.			2		3					misty	W. H. Lyne
Sheffield	29.95	760.7	30.22	767.6	68.2	20.1	74	ene.			1		10			0	0	overcast	W. F. Cooper.
Stilton Rectory	30.17	766.3	30.20	767.1	68.0	20.0	73	sw.			2		5			0.135	3.4	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.23	767.8	66.5	19.2	66	w.	7	3.1			10					d. clouds	Rev. S. J. Perry.
Stratfield Turgiss	30.02	762.5	30.23	767.8	70.8	21.6	68	sw.			1		9					foggy	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.23	767.8	30.24	768.1	72	22.2	63	nw.			4		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.22	767.6	30.25	768.3	59.6	15.3	87	ssw.	15	6.7			10			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.77	756.1	29.81	757.2	66	18.9	95	w.	4	1.8		10 n				1.217	30.9	sprinkling	H. J. Cundall, C. E.
Chatham, N. B*	29.80	756.9	29.86	758.4	62	16.7	90	s.	4	1.8		10 n		s.		0.88	22.4	cloudy	G. A. Blair.
Father Point, Quebec*	29.87	758.7	29.90	759.4	53	11.7	100	ne.	25	11.2		fg.				0.48	12.2	light fog	J. McWilliams.
Fort Garry, Manitoba*	29.26	743.2	30.07	763.8	59	15.0	87	se.	10	4.5		10 k		s.		0	0	threatening	James Stewart.
Halifax, N. S*	29.75	755.6	29.87	758.7	63	17.2	100	s.	2	0.9		10 n				0.284	7.2	heavy rain	A. Allison.
Kingston, Ontario*	29.65	753.1	29.97	761.2	64	17.8	84	n.	5	2.2		0	5 k		nw.	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.72	754.9	29.92	760.0	64	17.8	84	n.	6	2.7			10 s		n.	1.74	44.2	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.39	746.5	30.07	763.8	60	15.6	81	n.	14	6.3		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.36	745.7	30.04	763.0	58	14.4	94	nw.	5	2.2		2 k	0	nw.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.40	746.7	30.04	763.0	59	15.0	90	nw.	2	0.9		2 k	0	w.		0	0	clear	M. Payne.
Quebec, Quebec*	29.60	751.8	29.91	759.7	57	13.9	100	e.			1		10 n		e.	0.06	1.5	light rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.58	751.3	30.02	762.5	61	16.1	78	nw.	3	1.3		2 ck	0	nw.		0.05	1.3	fair	W. H. McIntyre.
Saugeen, Ontario*	29.36	745.7	30.06	763.5	63	17.2	78	ne.	5	2.2		0	0			0	0	clear	
St. Andrews, N. B	29.78	756.4	29.84	757.9	60	15.6	99	calm	0	0			fg.			0.12	3.0	foggy	
Sydney, C. B*	29.78	756.4	29.84	757.9	65	18.3	97	s.	9	4.0		10 n			sw.	0.35	8.9	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.66	753.4	30.03	762.7	64	17.8	81	n.	10	4.5		2 ck	5 ks	n.	n.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.79	756.7	29.85	758.2	59	15.0	96	sw.	2	0.9			fg.			0.01	0.3	foggy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.67	728.2	30.12	765.0	57.0	13.9	100	nw.			2	10 n	0	nw.		0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	30.02	762.5	30.27	768.8	63	17.2	72	n.	2	0.9		0	0			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.01	762.2	30.04	763.0	63.0	17.2	88	wsw.	7.7	3.4		2 cs	0			0	0	light haze	John Duthie.
Cape Town, C. G. H. Obs'y	30.09	764.3	30.13	765.3	60.0	15.6	76	wnw.	10	4.5		10	10			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.70	754.4	29.73	755.1	77.5	25.3	89	e.	5.6	2.5			0			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.13	765.2	30.17	766.4	68.0	20.0	47	ene.	16	7			8						Oversergent Fischer.
Faröe	30.15	765.9	30.17	766.4	73.2	22.9	44	calm			0		4						Overloerer Lauridsen
Godthaab, Greenland	29.82	757.4	29.86	758.5	41.7	5.4	87	ne.			2		10			0	0	foggy	S. Kleinschmidt.
Stykkisholm, Iceland	29.22	742.1	29.26	743.2	51.8	11.0	76	s.			2		8					raining	A. O. Thorlacius.
Thorshavn	29.98	761.4	30.01	762.3	56.1	13.4	77	sw.	16	7			7						Overloerer Bergh.
Vestervig	30.14	765.6	30.23	767.9	65.8	18.8	74	nnw.			2		1						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.48	748.9	30.15	765.8	74.1	23.4	39	n.			1	2 c	0	w.		0	0	slightly cl'dy	M. Labroue, Director.
Alençon, Normal School	29.65	753.1	30.20	767.1	69.8	21	72	n.			1		kn	n.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	30.12	765.0	30.37	771.5	63.7	17.6	81	ne.			1					0	0		M. Fénéon, Command't.
Avignon, Normal School	29.82	757.5	29.90	759.5	75.2	24	48	n.			6		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.56	750.8	30.10	764.6	70.2	21.2	50	e.			1		8		e.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.93	760.1	30.19	766.7	69.6	20.9	55	ene.			1		5		ne.	0.004	0.1	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.11	739.5	29.98	761.4	71.8	22.1	58	ne.			3	2 c	0	ne.		0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.87	758.6	30.12	765.1	74.1	23.4	38	n.			1		8			0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.67	753.7	30.21	767.4	70.7	21.5	57	n.			1	2 c	0	n.		0	0	slightly cld'y	M. Malet, Director.
Brest, Naval Observatory	30.01	762.3	30.26	768.5	67.6	19.8	68	ne.			1		7		ne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.31	769.8	30.38	771.7	66.0	18.9	64	nw.			1		5		nw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.80	756.8	30.11	764.8	68.9	20.5	72	sw.			1		5			0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.63	752.7	30.13	765.4	72.7	22.6	52	e.			1					0	0		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.73	729.7	30.06	763.4	66.7	19.3	41	n.			2		8			0	0	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.22	742.1	30.03	762.8	72.0	22.2	44	ene.			6		5		nne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.27	743.4	30.14	765.5	66.9	19.4	66	nne.			1		2k;nc	nne.	nne.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.37?	695.2?	29.79?	756.7?	73.8	23.2	33	ne.			2		2			0	0		M. Jeanginard, Director.
Gréasque, du Rhone	28.76	730.6	29.83	757.7	79.5	26.4	26	nw.			2		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.24	742.6	29.98	761.6	69.1	20.6	80	nw.			1		k		ne.	0	0		M. Ablard, Director.
Guéret, Normal School	28.70	729.0	30.25	768.4	68.2	20.1	55	nw.			4		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.03	762.7	30.30	769.5	69.1	20.6	68	n.			3		5		n.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.55	750.6	30.10	764.5	72.3	22.4	33	ne.			2		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.13	765.3	30.23	767.9	75.9	24.4	60	nne.			1		8	nw.	n.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.98	736.1	30.02	762.4	66.9	19.4	53	n.			1	0	8 n		ne.	0	0	all covered	M. André, Director.
Mans, Normal School	30.05	763.3	30.36	771.1	67.3	19.6	66	ene.			1		5		e.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.60	751.9	29.86	758.5	77.5	25.3	44	wnw.			2		1		wnw.	0	0		M. Stephan, Director.
Montlouis	24.89	632.3	29.74	755.3	60.4	15.8	43	nw.	28.0	12.5			2	n.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.77	756.1	29.89	759.3	81.7	27.6	31	nw.			4		2			0	0	slightly cl'dy.	M. Galzin, Director.
Nancy, Normal School	29.32	744.6	30.08	764.0	68.7	20.4	61	nw.			1		k		ne.	0	0		M. Hasse, Director
Nantes, Observatory	30.05	763.6	30.23	767.8	74.5	23.6	49	nne.			1-3	0	6k;kn		nne.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.85	758.3	29.96	760.9	79.0	26.1	22	nw.	28.0	12.5			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.35	542.3			36.3	2.4		se.			1		5	ne.	se.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.05	737.8	30.08	764.0	71.6	22	54	s.			1		2			0	0	slightly cov.	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.24	641.2			46.4	8.0	70	nne.			4		8			0	0	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.12	765.0	30.15	765.8	71.6	22.0	100	nne.			1		10		n.	0.08	2.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.97	761.3	30.19	766.7	68.2	20.1	69	n.			1		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	27.98	710.6	30.07	763.7	67.5	19.7	42	nw.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.19	766.8	30.24	768.0	69.8	21	65	ne.			1		5	sw.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.99	761.7	30.15	765.9	72.0	22.2	48	ene.			1		3		ne.	0.004	0.1		M. Renou, Director.
Toulouse, Observatory	29.42	747.3	30.15	765.7	75.2	24.0	35	nnw.			3		1		nw.	0	0	clear	M. Baillaud, Director.
Tours	29.98	761.5	30.16	766.0	72.7	22.6	52	n.			1		5	ne.	nne.	0.008	0.2	cloudy	M. de Tastes.
Versailles, Observatory	29.67	753.6	30.16	766.1	69.8	21.0	49	n.			2					0	0		Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.88	759.0	30.17	766.4	69.6	20.9	52	nne.			2		6		ne.	0	0		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.62	726.9	30.07	763.7	54.3	12.4	82	n.			2		10	n.		0.063	1.6		Prof. Jnedt.
Bamberg	29.17	741.0	30.02	762.6	57.2	14.0	90	nw.			4		10 n		wnw.	0.689	17.5	raining	Prof. Dr. Hoh.
Berlin	29.87	758.7	30.05	763.2	62.2	16.8	85	ne.			3		10			0.091	2.3		Prof. Dr. Arndt.
Breslau	29.29	743.9	29.82	757.3	64.2	17.9	91	ne.			1		10			0.661	16.8		Royal University Obs'y.
Carlsruhe	29.63	752.7	30.06	763.6	68.7	20.4	55	ne.			3		9	ne.		0.500	12.7		Albert Senz.
Cassel	29.34	745.3	30.06	763.4	67.3	19.6	50	nw.			6		8	nw.		0.409	11.9		Dr. H. Möhl.
Frankfort-on-the-Main	29.72	754.9	30.08	763.9	69.8	21.0	67	n.			2		10			0	0		Physical Society.
Friedrichshafen	28.62	726.9	30.02	762.5	65.8	18.8	58	ne.			2		5	ne.		0.150	3.8		Wilhelm, Chief Tel.
Hamburg	30.05	763.2	30.14	765.6	70.7	21.5	43	ene.			4		6	sw.		0.008	0.2		E. Preller.
Kiel	30.14	765.5	30.15	765.9	68.7	20.4	52	ne.			4		9			0	0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.56	750.9	29.98	761.5	57.6	14.2	100	nw.			4		10			0.012	0.3	raining	H. Leppig, Asst.
Magdeburg	29.84	757.8	30.02	762.5	64.6	18.1	69	n.			4		10 ks		n.	0	0		Dr. Assmann.
Memel	29.99	761.7	30.04	762.9	79.9	26.6	44	e.			5	0	8 ks					squally	Isermann.
Munich	28.22	716.8	30.09	764.2	52.3	11.3	88	n.			3		10	w.		0.118	3.0		Dr. C. Lang.
Neufahrwasser	29.92	759.9	29.93	760.3	68.5	20.3	77	nne.			4		10	ne.		0.272	6.9		A. Lothes.
Neustadt, Palatinate	29.52	749.9	30.05	763.3	70.3	21.3	54	ne.			4		5	n.		0	0		Dicknether.
Stuttgart	29.10	739.1	29.97	761.2	67.1	19.5	47	n.			4		10			0.311	7.9		Prof. Dr. Schoder.
Wustrow	30.08	764.0	30.10	764.6	60.3	15.7	91	ne.			5		10			0.126	3.2		Profs. Brandes & Reimer
GREEK.																			
Athens	29.36	745.8			90.3	32.4		s.			2.5		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.54	750.3	29.59	751.6	84.4	29.1	72	wsw.	28.0	12.5			4		w.	0	0	d. clouds	
Deesa	29.09	738.9	29.55	750.7	85.5	29.3	51	ssw.	9.9	4.4			6		ese.	0	0	hazy	
Bombay	29.63	752.5	29.66	753.5	82.8	28.2	77	w.	11.0	4.9			8	w.	wsw.	0	0	d. clouds	
Poona, Yarrowda	27.80	705.1	29.64	752.9	78.9	26.1	64	w.	21.0	9.4			6	w.	w.	0	0	d. clouds	
Trichinopoly	29.41	747.0	29.69	754.0	88.8	31.6	44	nw.	5.0	2.2			10			0	0	overcast	
Bellary	28.15	715.4	29.60	751.9	87.0	30.6	47	w.	11.7	5.2			10	sw.		0	0	gloomy	
Belgaum	27.16	690.0	29.71	754.7	70.7	21.5	93	w.	7.0	3.1			9	e.	sw.	0.12	3.0	showery	
Lahore	28.77	730.8	29.49	749.1	89.1	31.7	68	n.	2.1	0.9			4					raining	
Roorkee	28.61	726.7	29.50	749.2	81.6	27.6	76	se.	1.2	0.5			10			0.16	4.1		
Agra	28.94	735.1	29.50	749.4	79.8	26.5	91	calm	6.5	2.9			10		se.	1.81	46.0	overcast	
Nagpur	28.49	723.6	29.51	749.5	85.4	29.7	62	n.	3.6	1.6			10		w.	0	c	overcast	
Jubbulpore	28.20	716.2	29.53	750.2	82.0	27.8	79	wnw.	4.4	2.0			10			0.35	8.9	overcast	
Lucknow	29.14	740.2	29.51	749.5	88.1	31.2	54	calm	0.7	0.3			5			0	0	d. clouds	
Allahabad	29.17	740.8	29.47	748.6	89.0	31.7	71	calm	0.8	0.4			10			0	0	overcast	
Patna	29.36	745.6	29.54	750.2	86.6	30.3	72	e.	1.9	0.8			8	e.	e.	0	0	d. clouds	
Hazaribagh	27.52	699.0	29.50	749.2	81.6	27.6	79	e.	7.1	3.2			10			0.05	1.3	thund'rstorm	
Cuttack	29.40	746.6	29.48	748.7	85.9	29.9	75	e.	1.7	0.8			7			0	0	d. clouds	
Calcutta, Allipore	29.47	748.6	29.49	749.1	83.1	28.4	89	e.	4.0	1.8			8		e.	0.20	5.1	d. clouds	
Dhubri	29.43	747.6	29.55	750.5	85.2	29.6	84	calm	1.3	0.6			10			0	0	overcast	
Chittagong	29.52	749.9	29.61	752.1	83.7	28.7	84	calm	3.1	1.4			8			0	0	d. clouds	
Sibsagar	29.21	742.0	29.54	750.3	88.3	31.3	75	ne.	2.6	1.2			10	w.	w.	0.03	0.8	d. clouds	
Jeypore	28.10	713.9	29.51	749.6	88.2	31.2	61	nw.	3.3	1.5			6		nw.	0	0	d. clouds	
Zanzibar, Africa	30.00	762.0			81.2	27.3	55	se.	6.2	2.8			3			0	0	d. clouds	
ITALIAN.																			
Udine	29.46	748.3	29.85	758.2	69.4	20.8	54	ne.	6.3	2.8			10			0	0		Prof. Giovanni Cloding.
Milan	29.33	744.9	29.82	757.4	81.3	27.4	29	sw.	7.4	3.3			1	w.		0	0		Prof. Schiaparelli.
Padua	29.69	754.2	29.80	759.9	80.8	27.1	21	ene.	2.5	1.1			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.94	735.1	29.81	757.1	79.2	26.2	30	ssw.	3.8	1.7			0			0	0		Prof. P. F. Denza.
Genoa	29.68	753.9	29.87	758.6	75.6	24.2	66	sw.	8.1	3.6			0			0	0		Prof. G. M. Garibaldi.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Mondovi	27.96	710.1	29.79	756.7	75.4	24.1	35	nw.			4		0			0	0		Prof. D. C. Bruno.
Pesaro	29.76	756.0	29.81	757.2	77.2	25.1	57	nne.	8.7	3.9			1			0	0		Prof. Luigi Guidi.
Florence	29.60	751.9	29.84	757.9	81.3	27.4	25	sw.			2		0			0	0		Prof. Costantino Pitter
Leghorn	29.74	755.5	29.83	757.6	78.1	25.6	57	w.	1.8	0.8			0			0	0		Prof. P. Monte.
Rome	29.71	754.7	29.88	759.0	85.3	29.6	18	w.					0			0	0		Prof. P. S. Ferrari
Lecce	29.65	753.2	29.89	759.3	77.4	25.2	49	ene.	12.5	5.6			0			0	0		Prof. C. de Giorgi
Cosenza	29.05	737.8	29.89	759.3	81.3	27.4	71	sw.	3.1	1.4			1	w.		0	0		Prof. D. Conti.
Cagliari	29.69	754.2	29.88	758.9	77.2	25.1	55	se.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.71	754.5	29.95	760.6	81.0	27.2	41	ne.	8.7	3.9			1			0	0		Prof. G. Ciacciatore.
Syracuse	29.86	758.4	29.90	759.5	83.1	28.4	39	s.	7.4	3.3			2	ssw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.38	746.3	29.88	759.0	81.0	27.2	59	se.	1.3	0.6			2	sw.		0	0		Prof. T. Brioschi.
Stelvio	22.20	563.8			44.6	7.0	57	ene.			2		6			0	0	covered	Prof. P. F. Denza.
Valdobbia	22.24	564.8			53.4	11.9	63	e.			2		6			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.86	758.4	29.87	758.7	69.5	20.8	99	ese.	3.0	1.3			7			0	0	overcast	
Hiroshima, I. M. Obs'y					80.6	27.0	80	nne.	4.9	2.2			10ck;cs			0	0		I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.75	755.6	29.92	759.9	80.8	27.1	66	n.	3.7	1.6		2ck;cs	1 ck	sw.		0	0	clear	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.53	750.1	29.72	755.0	84.8	29.3	53	ne.	14.7	6.6		7 c;cs	0			0	0	fair	S. Takebayashi.
Nemuro	29.95	760.7	30.01	762.2	68.0	20.0	90	s.	9.0	4.0		0	0			0	0	clear	
Niigata	29.87	758.7	29.90	759.5	76.6	24.8	92	ene.	0.3	0.1		4 cs	0			0	0	fair	M. Morita.
Nobiru	29.91	759.7	29.92	760.1	75.1	23.9	97	s.	8.0	3.6			fg			0	0	foggy	H. Midzushima.
Osaka	29.89	759.2	29.90	759.4	82.0	27.8	76	se.	2.4	1.1			9 ck		s.	0	0	cloudy	
Sapporo					74.5	23.6	88	calm	0	0			2			0	0	clear	
Tokei Obs'y, Yeddo	29.87	758.7	29.95	760.7	77.2	25.1	85	s.	12.1	5.4		0	0			0	0	clear	The Staff.
Wakayama	29.86	758.4	29.91	759.7	80.5	26.9	73	calm	0	0		10	0			0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.97	761.2	30.16	766.1	70.5	21.4	74	ese.	19.5	8.7		0	4 k;n		ese.	0.28	7.1	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.75	603.2	29.96	761.2	59.9	15.5	91	calm	0	0		8 cp	k	se.	se.	0	0	foggy	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.03	762.7	59.0	15.0	91	nne.			1	8 c	0	sw.		0.509	15.2	cloudy	Prof. M. Leal.
Mazatlan	29.70	754.2	29.95	760.8	78.5	25.8	84	e.	1.6	0.8		0	3 n		w.	0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.5	30.19	766.7	57.9	14.4	87	calm	0	0		10 nk	0	e.		0.191	2.3	covered	The Staff.
Morelia	24.19	614.3	30.23	767.8	59.4	15.2	72	e.			2	1	2	s.	s.	inap.	inap.	½ cloudy	M. Tena, M. D.
Orizaba	26.12	663.3	30.08	763.9	63.3	17.4	74	s.	5.2	2.3		1	0	s.		0	0	clear	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.01	609.7	29.99	761.7	61.5	16.4	90	calm	0	0		5 c	0			inap.	inap.	½ cloudy	M. V. de Leon, M. E
Puebla, Catholic Institute	23.46	595.8	30.22?	769.5?	54.1	12.3	84	ne.	1.8	0.8		0	0			1.256	31.9	clear	Prof. P. Spina.
San Luis Potosi	24.28	616.8	30.28	768.9	62.0	16.7	61	ese.				0	7		e.	0	0	cloudy	G. Barroeta, M. D
Zacatecas	22.62	574.3	30.23	767.8	52.1	11.2	78	ne.	7.7	3.4		5 k	2 k	n.	w.	0	0	cloudy	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.23	767.8	30.25	767.8	68.4	20.2		nne.			3					0	0		
Groningen	30.15	765.8	30.21	767.2	67.5	19.7		ne.			1					0	0		
Helder	30.22	767.7	30.22	767.7	62.8	17.1		ene.			2					0	0		
Hellevoetsluis	30.22	767.5	30.22	767.5	71.1	21.7	53	ne.			1					0	0		
Utrecht	30.17	766.2	30.21	767.4	67.8	19.9	57	n.			2		2			0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.17	766.4	30.24	768.0	66.6	19.2	79	ssw.	9	4			2			blank	blank		
Brono	30.16	766.1	30.20	767.1	59.0	15.0	76	sw.	18	8			10			0.157	4.0		
Christiania	30.08	764.0	30.22	767.6	72.1	22.3	60	sw.	9	4			2			0	0		
Gjæsvær	29.87	758.7	29.89	759.3	53.4	11.9		sw.			7		10						
Lodingen	29.97	761.3	30.02	762.5	54.3	12.4	92	sw.			8		10			0.638	16.2	raining	
PORTUGUESE.																			
Angra, Azores					72.0	22.2	91	ese.	16.8	7.5			2			0	0		Dr. J. A. Sampaio.
Campo Major	28.91	732.4	29.85	758.1	87.4	30.8	24	nnw.	4.3	1.9			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.01	762.3	30.10	764.5	74.8	23.8	62	sw.	9.4	4.2			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.62	752.4	29.97	761.1	81.7	27.6	23	n.	15.4	6.9			1			0	0		The Staff.
Ponta Delgada, Azores	30.30	769.6	30.37	771.4	75.2	24.0	74	ese.	9.4	4.2			4			0	0		
Saint Paul de Lorando	29.85	758.2	30.06	763.4	68.0	20.0	76	wsw.	3.1	1.4			0			0	0		
Serra da Estrella	25.35	643.8	29.92	760.0	64.6	18.1	36	ese.	12.5	5.6			1			0	0		
RUSSIAN.																			
Akmolinski	28.94	735.0	29.98	761.4	69.8	21.0	30	ne.	7	3		0	3 k			0	0		Major K. Lasarew.
Archangel	30.19	766.8	30.21	767.3	62.8	17.1	62	w.	13	6		1 cs	0			0.059	1.5		Capt. Sseliwerstow.
Astrakhan	30.12	765.0	30.04	762.9	88.3	31.3	21	ese.	11	5		cs	5 s			0	0	light clouds.	Capt. Wisganow.
Barnaul	29.56	750.9	30.05	763.2	64.0	17.8	48	sw.	2	1			7			0	0		Meteorological Obs'y.
Dorpat	30.05	763.3	30.29	769.3	71.6	22.0	59	ene.	9	4		1 cs	0			0.004	0.1		Observatory.
Ekaterinburg	28.97	735.7	29.86	758.5	85.5	29.7	43	wsw.	9	4		2 ck	0			0	0		Meteorological Obs'y.
Irkutsk	28.28	718.2	29.89	759.1	57.0	13.9	79	nw.	7	3			10 s;ks			0.197	5.0		
Kasan	29.75	755.7	30.00	762.0	91.4	33.0	31	n.	7	3			10					thnd'r storm	Observatory.
Kertch	29.69	754.2	29.71	754.7	83.8	28.8	61	e.	45	20		6 cs	0			0	0		Lagorio & Sastyrez.
Kieff	29.21	742.0	29.79	756.7	91.8	33.2	27	ese	11	5		4c;ck;cs	0			0	0	light clouds	Observatory.
Lugan	29.71	754.7	29.90	759.5	95.4	35.2	13	ene.	22	10			0			0	0		Meteorological Obs'y.
Moscow	29.62	752.4	30.07	763.7	80.2	26.8	47	sse.	4	2			0						Meteorological Obs'y.
Nikolaiev	29.67	753.7	29.74	755.5	97.3	36.3	37	ese.	22	10		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.54	750.4	29.69	754.0	78.3	25.7	93	calm	0	0		0	0 ks			1.240	31.5		Physical Observatory.
St. Petersburg	30.32	770.1	30.34	770.5	70.0	21.6	41	e.	7	3		cs	1 k			0	0		Central Physical Obs'y.
Semipalatinsk	29.40	746.8	30.04	763.1	65.8	18.8	45	nne.	9	4			4			0	0		Major Lasarew
Tashkend, Laboratory	28.10	713.8	29.57	751.0	83.1	28.4	51	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.52	724.4	29.84	758.0	93.0	33.9	20	se.	9	4		0	0			0	0		Physical Observatory.
Vladivostock	29.73	755.1	29.80	756.8	72.3	22.4	95	se.	2	1		8 ck	0						
Warsaw	29.34	745.3	29.74	755.4	78.1	25.6	71	nne.	16	7		cs	1 k			blank	blank	light clouds	Astronomical Obs'y.
Wilna	29.60	751.7	29.99	761.8	77.4	25.2	67	e.	9	4			3			0	0	light clouds	Berg, Assistant.
Yeniseisk	29.63	752.5	29.91	759.6	61.2	16.2	93	w.	7	3			10			blank	blank		M. C. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.86	758.4	29.96	761.0	79.3	26.3	44	se.	4.0	1.8			3						Antonio Rave, Director.
Bilbao, Met. Obs'y	30.13	765.3	30.19	766.8	75.2	24.0	63	nw.	2.0	0.9		2	0	se.		0	0	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.16	689.9	30.06	763.6	65.8	18.8	41	ne.	13.0	5.8			1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.77	705.4	29.89	759.2	81.3	27.4	43	ne.	11.2	5.0		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director
Santiago, Met. Obs'y	29.19	741.3	30.06	763.5	71.2	21.8	53	n.	24.8	11.1			0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I																			Benito Vines, S. J.
Manilla, Philippine Islands	29.67	753.7	29.73	755.1	79.3	26.3	88	ssw.	21.6	9.7			9 n		sw	0.984	25.0	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.82	757.4	29.92	759.8	84.0	28.9	35	ese.	21.8	9.8		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.03	762.8	30.16	766.1	81.0	27.2	91	se.	12.8	5.7		4 k	1 k	se.	se.	0.413	10.5	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.55	750.6	29.68	753.9	77.5	25.3	93	nw.	1.2	0.5			10 kn		sw.	0.07	1.8	dull	José L. Yrastorza.
SWEDISH.																			
Haparanda	30.13	765.3	30.17	766.3	66.9	19.4	60	sw.			4		5			0	0		
Umea	30.19	766.7	30.24	768.0	73.9	23.3	47	sw.			4		5			0	0		
Hernosand	30.22	767.5	30.27	768.8	70.5	21.4	48	e.			2		0			0	0		
Stockholm	30.10	764.5	30.28	769.0	70.5	21.4	36	se.			2		1			0	0		
Wisby	30.11	764.8	30.17	766.3	71.6	22.0	36	ene.			6		5			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers.
Swedish—Continued.																			
Sub-series.																			
Upsala	30.16	766.0	30.24	768.2	73.9	23.3	44	s.	4.0	1.8			3	sw.		0	0		S. G. Fineman.
Swiss.																			
Geneva	28.59	726.2	29.99	761.7	65.1	18.4	60	nne.			2					0	0	cloudy	The Observatory
Scottish.																			
Monach Lt			30.05	763.3	58	14.4	94	sw.			4		10			0.1	3.	raining	J. Youngclause.
North Unst			30.06	763.5				sw.			6		10						
Turkish.																			
Constantinople			29.76	755.9	84.9	29.4	59	ne.	13	6.0			4		n.	0	0		The Observatory.
Valona			30.04	762.9	77.4	25.2		nw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.75	755.6	88.0	31.1	61	sw.			2	2 ck	0	sw.		0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.89	759.2	29.97	761.2	76	24.4	64	nw.	4	1.8		5 cs	0			1.33	33.8	fair	J. O. Barnes.
Alpena, Michigan	29.50	749.3	30.14	765.5	62	16.7	68	ne.	9	4.0		0	0			0.04	1.0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.13	638.3	29.87	758.7	57	13.9	62	ne.	2	0.9		0	0			0	0	clear	W. O. Barnes.
Assiniboine, Ft., Montana	27.23	691.6	29.96	761.0	50	10.0	59	sw.	5	2.2		4 c	0			0	0	fair	B. O. Lenoir.
Atlanta, Georgia	28.99	736.3	30.14	765.5	70.0	21.1	90	nw.	7	3.1		8 k	0			0.23	5.8	cloudy	H. Hall.
Atlantic City, New Jersey	29.95	760.7	29.96	761.0	77.5	25.3	74	nw.	4	1.8		4 c;ck	0	calm		0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.96	761.0	30.15	765.8	75.0	23.9	82	sw.	1	0.4		9 k	0	sw.		0	0	cloudy	John Healy.
Baltimore, Maryland	29.96	761.0	30.01	762.2	75	23.9	85	w.	2	0.9		3 ck	5 s;fg	w.	w.	0.07	1.8	cloudy	Robert Seybolh.
Barnegat, New Jersey	29.93	760.2	29.95	760.7	78.0	25.6	76	w.	8	3.6		7 ck	0	w.		0	0	fair	G. A. Hill.
Bennett, Fort, Dakota	28.35	720.1	29.89	759.2	67	19.4	90	se.	5	2.2		5 k	5 s	calm	calm	0.01	0.3	cloudy	A. Pritchard.
Benton, Fort, Montana	27.26	692.4	29.97	761.2	52	11.1	74	calm	0	0		4 cs	1 s			0	0	fair	G. W. Davis.
Behring Island, Behring Sea	29.66	753.4	29.68	753.9	48.2	9.0		ne.	20	8.9			fg.			0.11	2.8	light rain	Dr. L. Steineger.
Bismarck, Dakota	28.24	717.3	29.96	761.0	63	17.2	93	e.	2	0.9			10 n			1.01	25.7	light rain	Cyrus Cramer.
Block Island, Rhode Island	29.90	759.4	29.93	760.2	74.0	23.3	84	calm	0	0		5cs;ck	4 s	w.		0.12	3.0	cloudy	J. T. Elker.
Boise City, Idaho	27.10	688.3	29.82	757.4	61	16.1	60	w.	3	1.3		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.76	755.9	29.90	759.4	73.0	22.8	79	w.	6	2.7		6 ck	hz.	w.		0.61	15.5	fair	O. B. Cole.
Brownsville, Texas	29.93	760.2	29.99	761.0	79.6	26.4	82	se.	6	2.7		0	2 s		se.	0	0	clear	M. McCarty.
Buffalo, New York	29.30	744.2	30.03	762.7	62	16.7	82	nw.	2	0.9		2 k	7 ks	nw.	nw.	0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	28.10	713.7	30.04	763.0	56	13.3	86	nw.	1	0.4			fg.			0	0	dense fog	A. H. Bell.
Burlington, Vermont	29.63	752.6	29.91	759.7	70.0	21.1	73	w.	5	2.2		0	2 ks		w.	0.01	0.3	clear	G. C. Schaeffer.
Cairo, Illinois	29.70	754.4	30.10	764.5	73.8	23.2	92	se.	2	0.9			10 s		se.	0.11	2.8	threatening	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.22	691.4	29.81	757.2	69.5	20.8	65	calm			0	0	0			0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	29.99	761.7	30.01	762.2	77	25.0	82	s.	11	4.9		3 cs	0			0.15	3.8	clear	A. K. Alderson.
Cape May, New Jersey	29.96	761.0	29.99	761.7	72.0	22.2	82	s.	7	3.1		0	6 s			0	0	fair	W. E. Smith.
Cape Mendocino	29.38	746.2						n.	20	8.9			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	30.10	764.5	30.12	765.0	82	27.8	79	s.	6	2.7		3 c	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.30	744.2	30.09	764.3	61.8	16.6	78	e.	14	6.3			10 s		s.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.07	763.8	30.12	765.0	81	27.2	82	w.	5	2.2		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.23	742.4	30.06	763.5	80.0	26.7	67	sw.	5	2.2		0	hz.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.33	745.0	30.13	765.3	74.5	23.6	84	sw.	6	2.7		0	2 k		sw.	0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.20	614.7	29.89	759.2	49.2	9.6	77	nw.	4	1.8		0	0			0.71	18.0	clear	E. McGovern.
Chicago, Illinois	29.44	747.8	30.12	765.0	65.0	18.3	60	ne.	8	3.6		7 c	0	sw.		0	0	fair	J. Mitchell.
Chincoteague, Virginia	29.99	761.7	30.01	762.2	77	25.0	82	nw.	3	1.3		0	6 ks		s.	0.05	1.3	fair	V. P. Temple.
Cincinnati, Ohio	29.42	747.3	30.06	763.5	71.0	21.7	76	n.	4	1.8		3 ck	0	w.		0.06	1.5	clear	J. F. Harrold.
Cleveland, Ohio	29.35	745.5	30.07	763.8	66.8	19.3	70	ne	7	3.1			10 k		ne.	0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.16	715.3	29.92	760.0	76	24.4	82	s.	6	2.7			10 n			0.01	0.3	light rain	L. Dorman.
Columbus, Ohio	29.21	741.9	30.04	763.0	67	19.4	90	n.	7	3.1			10 s			0.02	0.5	cloudy	D. Cuthbertson.
Concho, Texas	28.05	712.5	29.93	760.2	75	23.9	82	e.	6	2.7			10 s		se.	0	0	cloudy	W. W. McConihe.
Custer, Fort, Montana	26.95	684.5	29.97	761.2	49	9.4	93	s.	4	1.8		4 k	0	calm		0	0	fair	V. Verge.
Davenport, Iowa	29.48	748.8	30.10	764.5	62	16.7	78	ne.	9	4.0		7 cs	0	w.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	29.84	757.9	67	19.4	81	calm	0	0		0	8 s		sw.	0.30	7.6	cloudy	J. Williams.
Dayton, Washington T'y	28.31	719.1	30.02	762.5	50.2	10.1	82	sw.	4	1.8		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.50	647.7	29.92	760.0	57.0	13.9	83	s.	4	1.8		0	0			1.65	41.9	clear	G. W. Scott.
Decatur, Texas					72	22.2	84	s.	11	4.9			10 n			0.78	19.8	heavy rain	D. J. Carr.
Delaware Breakwater, Del.	29.98	761.5	30.00	762.0	70	21.1	100	se.	4	1.8		9 ck;k	fg	w.		0	0	cloudy	A. Schneider.
Denison, Texas	29.16	740.7	29.94	760.5	75.0	23.9	85	s.	6	2.7		5 cs	0			0	0	fair	J. McGlone.
Denver, Colorado	24.90	632.4	29.91	759.7	57.0	13.9	80	nw.	3	1.3		1 c	0			0.08	2.0	clear	F. M. Neal.
Des Moines, Iowa	29.17	740.9	30.05	763.3	69	20.6	84	se.	4	1.8			10 n		se.	0.01	0.3	light rain	F. W. Conrad.
Detroit, Michigan	29.40	746.7	30.08	764.0	61.8	16.6	78	n.	8	3.6		1 c	4 s	nw.	w.	0	0	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.39	695.7	29.89	759.2	69.9	21.1	82	s.	4	1.8		2 c	6 ks	w.	w.	0.03	0.8	cloudy	W. M. Mattingly.
Dubuque, Iowa	29.45	748.0	30.14	765.5	59.3	15.2	75	e.	4	1.8		4ck;cs	0	ne.		0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.52	749.8	30.24	768.1	56	13.3	69	ne.	6	2.7		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.16	740.7	29.95	760.7	78.0	25.6	69	se.	2	0.9		1 c	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.40	645.1	29.95	760.7	46	7.8	58	w.	3	1.3		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.78	756.4	29.84	757.9	59.0	15.0	93	calm	0	0			fg.			0.28	7.1	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.21	691.1	29.85	758.2	67	19.4	66	e	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.30	668.0	29.90	759.4	70	21.1	71	ne.	3	1.3		8 ck	0	e.		0	0	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.33	745.0	30.04	763.0	66	18.9	78	calm	0	0			10 ks			0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.57	751.1	30.21	767.3	55	12.8	74	n.	11	4.9		0	0			0	0	clear	C. Dill.
Fredericksburg, Texas	28.25	717.8	29.96	761.0	73	22.8	84	s.	7	3.1			10 ks		s.	0	0	cloudy	H. S. Miles.
Galveston, Texas	29.99	761.7	30.04	763.0	81.5	27.5	85	sw.	12	5.4		0	9 k		sw.	0.30	7.6	cloudy	E. O'C. Macherney.
Grand Haven, Michigan	29.48	748.8	30.13	765.3	61.0	16.1	78	ne.	6	2.7			10 k		ne.	0	0	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.26	641.6	29.83	757.7	71.9	22.2	46	nw.	10	4.5		0	0			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	30.06	763.5	30.08	764.0	80.0	26.7	91	sw.	16	7.2		0	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.90	657.8	29.96	761.0	53	11.7	61	w.	4	1.8		4 c	0			0	0	fair	S. Wheaton.
Henrietta, Texas	28.98	736.1	29.96	761.0	80.0	26.7	91	se.	6	2.7			10 n			0.12	3.0	heavy rain	J. W. Byram.
Huron, Dakota	28.67	728.2	29.99	761.7	64.9	18.3	87	se.	7	3.1		5 k	1 ks	se.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.29	744.0	30.06	763.8	64	17.8	81	ne.	4	1.8		4cs;ck	4 s	sw.	sw.	inap.	inap.	cloudy	O. Schultze
Indianola, Texas	29.98	761.5	30.00	762.0	80.1	26.7	88	s.	8	3.6		0	1 ks		s.	0.02	0.5	clear	I. A. Reed.
Jacksboro, Texas	28.83	732.3	29.95	760.7	70	21.1	100	s.	7	3.1			10 n		s.	3.59	88.9	thund'r str'm	J. P. Sherry.
Jacksonville, Florida	30.09	764.3	30.13	765.3	80	26.7	82	w.	1	0.4		1 cs	0			0.24	6.1	clear	J. W. Smith.
Keogh, Fort, Montana	27.59	700.8	30.00	762.0	52	11.1	80	sw.	1	0.4		2 c	0			0	0	clear	W. B. Stockman.
Keokuk, Iowa	29.41	747.0	30.04	763.0	65.0	18.3	84	ne.	10	4.5			10 s		ne.	0.26	6.6	cloudy	F. Z. Gosewisch
Key West, Florida	30.03	762.7	30.05	763.3	85.0	29.4	72	ne.	5	2.2		0	2 k		e.	0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.05	763.3	30.07	763.8	82.0	27.8	80	sw.	11	4.9		hz.	0			0.05	1.3	clear	E. A. Beals.
Knoxville, Tennessee	29.12	739.6	30.12	765.0	70.3	21.3	92	w.	7	3.1		0	8 s		w.	0.01	0.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.36	745.7	30.12	765.0	65	18.3	63	e.	1	0.4		3 c	0	n.		0	0	clear	S. C. Emery
La Mesilla, New Mexico	26.12	663.4	29.86	758.4	67.2	19.6	70	se.	2	0.9		5 c	2 s	sw.		0	0	fair	N. D. Lane.
Leavenworth, Kansas	29.10	739.1	29.96	761.0	72	22.2	84	calm	0	0			10 s		se.	0.40	10.2	cloudy	A. W. Browne.
Lewiston, Idaho	29.24	742.7	30.05	763.3	59.0	15.0	60	calm	0	0		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.73	755.1	30.04	763.0	75	23.9	90	se.	2	0.9		0	9 s		sw.	0.01	0.3	cloudy	W. U. Simons.
Los Angeles, California	29.66	753.4	30.05	763.3	60.1	15.6	87	sw.	2	0.9			10 s			0	0	cloudy	E. F. Kubel.
Louisville, Kentucky	29.48	748.8	30.03	762.7	73	22.8	90	nw.	1	0.4		0	sk.			0.43	10.9	clear	H. C. Smyth.
Lynchburg, Virginia	29.36	745.7	30.03	762.7	75.5	24.2	82	w.	2	0.9		5 cs	2 s			1.08	42.7	fair	W. R. Bushby.
Macon, Fort, North Carolina	30.07	763.8	30.08	764.0	80	26.7	88	w.	10	4.5		0	hz.			0	0	clear	F. P. Chaffee.
Madison, Wisconsin	29.20	741.7	30.18	766.6	55	12.8	80	ne.	6	2.7		3 c	0	w.		0	0	fair	C. A. Shaw.
Maginnis, Fort, Montana	25.69	652.5			47	8.3	66	n.	6	2.7		0	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.75	704.8	29.95	760.7	74	23.3	73	se.	6	2.7			10 s			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.53	750.0	30.24	768.1	59	15.0	65	w.	6	2.7		0	0			inap.	inap.	clear	J. Gilligan.
Memphis, Tennessee	29.74	755.4	30.07	763.8	73	22.8	97	se.	4	1.8		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.43	747.5	30.16	766.1	57	13.9	86	n.	11	4.9		2 ck	4 s	ne.	ne.	0	0	fair	W. Line.

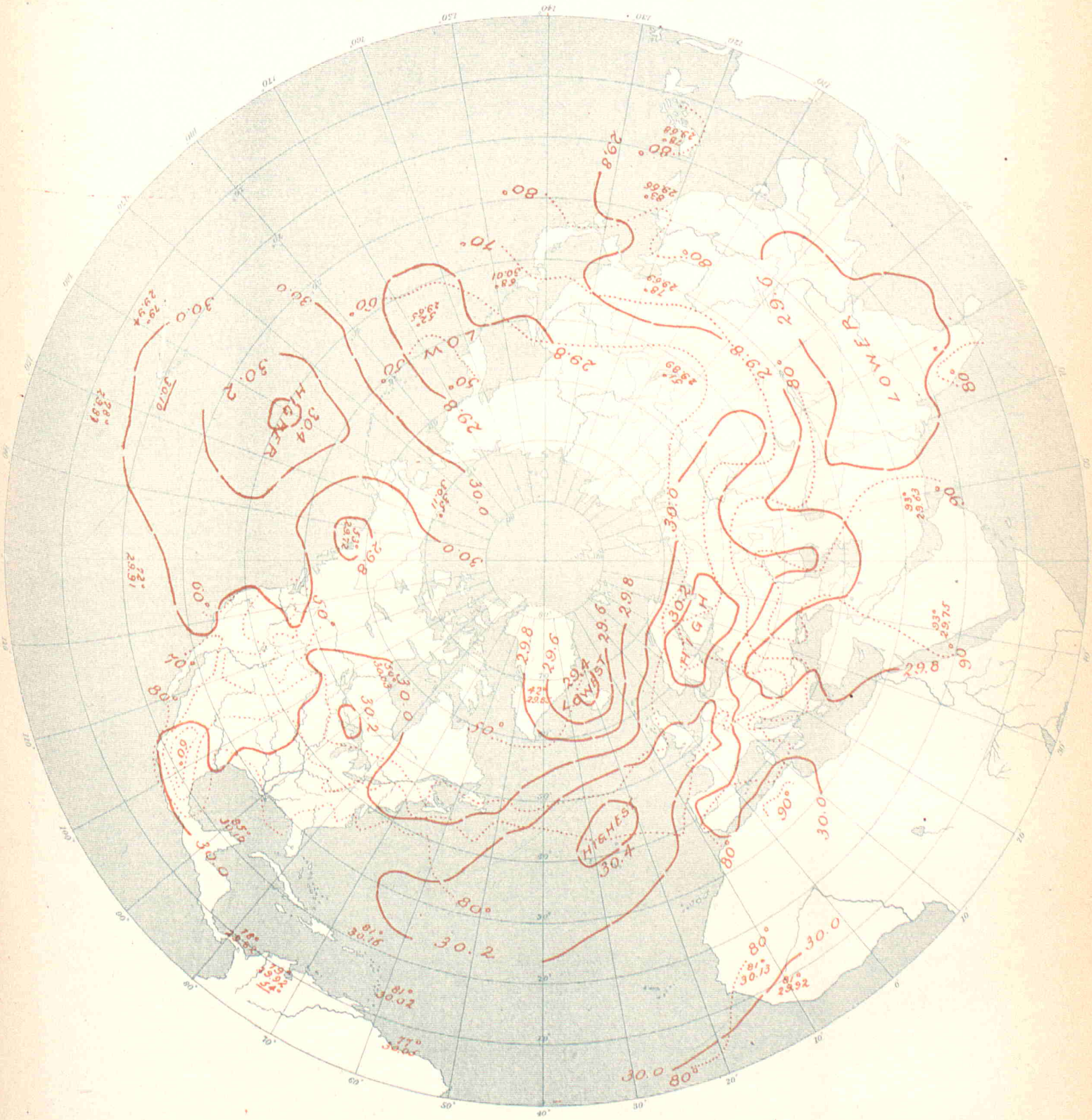
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.85	682.0	30.04	763.0	46	7.8	93	s.	2	0.9		0	0			0	0	clear	J. H. Jones.
Mobile, Alabama	30.07	763.8	30.11	764.8	76	24.4	90	e.	3	1.3		1 c	2 ks	sw.		0.20	5.1	clear	O. A. Read.
Montgomery, Alabama	29.91	759.7	30.13	765.3	73.0	22.8	97	se.	1	0.4			10 s		se.	0.05	1.3	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.09	738.9	30.05	763.3	58	14.4	93	se.	12	5.4		6 c	0	s.		0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.07	738.4	30.07	763.8	72.5	22.5	86	sw.	2	0.9			10 s		sw.	0.07	1.8	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H	23.83	605.3	29.90	759.4	49.0	9.4	100	nw.	40	17.9			fg.		nw.	0.24	6.1	dense fog	J. G. Lipsley
Nashville, Tennessee	29.54	750.3	30.06	763.5	74.0	23.3	82	sw.	1	0.4		0	8 ks		s.	0.01	0.3	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.82	757.4	29.93	760.2	74	23.3	76	nw.	5	2.2		4 cs	hz.	sw.		inap.	inap.	fair	J. H. Sherman.
New London, Connecticut	29.88	758.9	29.93	760.2	77	25.0	60	calm	0	0		4 ck	0			0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.07	763.8	79.0	26.1	88	calm	0	0		6 c	sk.	w.		0.12	3.0	fair	L. Dunne.
Newport, Rhode Island	29.88	758.9	29.93	760.2	76.3	24.6	73	sw.	4	1.8		4 ck	2 s	nw.		0	0	fair	W. McGillivray.
New York, New York	29.80	756.9	29.97	761.2	73	22.8	82	w.	4	1.8		4 cs	4 s	w.		0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	30.00	762.0	30.03	762.7	80	26.7	82	calm	0	0		0	0			0.35	8.9	clear	H. L. Kemp.
North Platte, Nebraska	27.14	689.3	29.94	760.5	66.6	19.2	82	e.	4	1.8		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.05	763.3	30.09	764.3	49.0	9.4	93	w.	1	0.4		0	0			0	0	clear	J. Dascomb.
Ogglaamie, Pt. Barrow, Alas.	30.09	764.3	30.11	764.8	34.5	1.4	91	ese.	17	7.6			10 s		se.	0	0	cloudy	P. H. Ray.
Omaha, Nebraska	28.88	733.5	30.01	762.2	66.0	18.9	93	e.	8	3.6			10 s		e.	1.90	48.3	cloudy	A. Pollak.
Oswego, New York	29.67	753.6	29.99	761.7	67.6	19.8	77	nw.	7	3.1		6 k	0	w.		0.01	0.3	fair	S. W. Beall.
Palestine, Texas	29.48	748.8	30.02	762.5	76.0	24.4	90	s.	10	4.5		3 k	0	w.		0.09	2.3	clear	L. M. Pindell.
Pensacola, Florida	30.09	764.3	30.12	765.0	75.4	24.1	96	e.	2	0.9			10 s			0.10	2.5	cloudy	M. McGauran.
Philadelphia, Pa	29.90	759.4	30.00	762.0	81.5	27.5	58	sw.	1	0.4		9cs; ck	hz.	nw.		0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.01	457.4	29.79	756.7	29	— 1.7	84	n.	4	1.8		0	2 s		n.	0.12	3.0	clear	L. M. Dey.
Pioche, Nevada	24.14	613.1	29.87	758.7	60.0	15.6	35	s.	1	0.4		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.21	741.9	30.00	762.0	70.4	21.3	90	nw.	1	0.4		8 c; k	0	nw; w.		0.17	4.3	cloudy	J. H. Bryce.
Poplar River, Montana	27.96	710.2						s.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.10	764.5	30.11	764.8	76.1	24.5	94	sw.	6	2.7			10 n		sw.	1.26	32.0	light rain	M. Hermann.
Port Huron, Michigan	29.41	747.0	30.07	763.8	62.5	16.9	84	n.	5	2.2		0	1 s			0	0	clear	W. O. Bailey.
Portland, Maine	29.80	756.9	29.85	758.2	70.5	21.4	84	sw.	4	1.8		5 ck	0	w.		0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.01	762.2	30.08	764.0	54.0	12.2	93	nw.	1	0.4		0	0			0	0	clear	M. L. Hearne.
Prescott, Arizona	24.85	631.2	29.84	757.9	58	14.4	58	s.	2	0.9		0	0			0	0	clear	J. McN. Wright
Provincetown, Mass	29.88	758.9	29.90	759.4	74.0	23.3	76	w.	7	3.1		4 cs	2 s	nw.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.07	763.8	30.08	764.0	80	26.7	79	ne.	6	2.7		0	1 k		calm	0.10	2.5	clear	W. J. Evans.
Red Bluff, California	29.52	749.8	29.88	758.9	70.3	21.3	52	se.	2	0.9		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.75	755.6	29.98	761.5	81	27.2	74	se.	10	4.5		0	0			0	0	clear	P. M. Wilson.
Rochester, New York	29.35	745.5	30.00	762.0	62	16.7	87	w.	5	2.2			10 k		w.	0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.50	749.3	30.04	763.0	52.5	11.4	75	calm	0	0		0	0			0	0	clear	J. J. Naury.
Sacramento, California	29.82	757.4	29.89	759.2	60.9	16.1	72	s.	13	5.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.47	748.5	30.05	763.3	71.0	21.7	100	e.	8	3.6			10 s		w.	0.64	16.3	threatening	J. H. Webber.
St. Paul, Minnesota	29.29	744.0	30.13	765.3	61	16.1	78	e.	14	6.3			10 s		e.	0	0	cloudy	P. F. Lyons
St. Vincent, Minnesota	29.22	742.2	30.06	763.5	55	12.8	86	e.	6	2.7		0	8 k; s		e.	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.68	652.3	29.86	758.4	64	17.8	43	n.	2	0.9		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.29	744.0	29.97	761.2	76.5	24.7	90	se.	4	1.8			10 s		se.	0.08	2.0	cloudy	T. J. Kenan.
San Diego, California	29.94	760.5	30.02	762.5	62.1	16.7	81	sw.	2	0.9			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.41	747.0	30.07	763.8	66.2	19.0	78	ne.	17	7.6			10 s		ne.	0.01	0.3	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.94	760.5	29.97	761.2	75.0	23.9	82	w.	10	4.5		10 k	0	w.		0	0	cloudy	B. A. Blundon.
San Francisco, California	29.92	760.0	29.98	761.5	55	12.8	86	sw.	10	4.5			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.34	592.8	29.84	757.9	56	13.3	60	ne.	4	1.8		2 c	0	sw.		0.03	0.8	clear	H. U. Jones.
Savannah, Georgia	30.04	763.0	30.13	765.3	83	28.3	72	sw.	2	0.9		0	0			inap.	inap.	clear	H. W. Ford.
Shaw, Fort, Montana	26.45	671.8	29.96	761.0	46	7.8	63	w.	2	0.9		5 cs	0			0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.80	756.9	30.03	762.7	77	25.0	90	se.	3	1.3			10 s		se.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.72	729.5	29.92	760.0	74	23.3	94	s.	3	1.3			10 s		s.	0.31	7.9	cloudy	T. Cleary.
Silver City, New Mexico	24.35	618.5	29.81	757.2	60	15.6	67	n.	1	0.4		0	4 s		calm	0.02	0.5	fair	J. B. Wallace.
Sitka, Alaska	29.66	753.4	29.72	754.9	53	11.7	86	calm	0	0			10 ks			0.21	5.3	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.52	749.8	29.98	761.5	75.0	23.9	90	e.	4	1.8		9 cs	0	w.		0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.07	763.8	30.10	764.5	81	27.2	85	w.	8	3.6		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.05	712.5	30.03	762.7	50	10.0	74	calm	0	0		2 cs	0			0	0	clear	D. Moore.
Springfield, Illinois	29.41	747.8	30.10	764.5	65	18.3	75	ne.	11	4.9			9 s		w.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.81	757.2	29.94	760.5	73.4	23.0	84	s.	1	0.4		8 k	fg.	w.		0.22	5.6	cloudy	T. S. Outram.
Springfield, Mo	28.61	726.7	30.00	762.0	72	22.2	90	sw.	6	2.7			10 s			0	0	cloudy	J. B. Marbury.
Starkville, Miss	29.64	752.8	30.11	764.8	76.1	24.5	85	sw.	4	1.8		0	4 k		sw.	0.02	0.5	fair	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.19	716.0	29.97	761.2	61	16.1	100	nw.	6	2.7			10 s			1.68	42.7	cloudy	W. Burrows
Stockton, Fort, Texas	26.98	685.3	29.92	760.0	71.0	21.7	82	n.	4	1.8			10 s		n.	0	0	cloudy	J. O'Dowd.
Thatcher's Island, Mass	29.84	757.9	29.89	759.2	70.9	21.6	83	w.	5	2.2		5 k	hz.	w.		0.02	0.5	fair	G. Liebmann
Toledo, Ohio	29.40	746.7	30.07	763.8	63	17.2	73	n.	7	3.1			10 s			0	0	cloudy	A. Buell.
Tucson, Arizona	27.56	700.0	29.88	758.9	75	23.9	64	s.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.70	754.4	30.06	763.5	52.5	11.4	49	e.	6	2.7		0	0			0	0	clear	J. Daly.
Uvalde, Texas	28.99	736.3	29.93	760.2	76	24.4	82	se.	3	1.3			10 s		se.	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona					68.2	20.1	44	sw.			1	0	0			0	0	clear	D. Brooks
Vicksburg, Mississippi	29.83	757.7	30.07	763.8	72	22.2	90	se.	4	1.8		2 ck	3 s			0.81	20.6	fair	H. P. Brisbane.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.65	626.1	29.98	761.5	44.9	7.2	89	w.	1	0.4		1 k	0			0.08	2.0	clear	T. M. Ambler.
Washington, D. C	29.90	759.4	30.01	762.2	71.6	22.0	95	sw.	2	0.9		7 ck	0	w.		1.05	26.7	clearing	B. M. Purssell.
West Las Animas, Colorado	26.09	662.7	29.85	758.2	60.3	15.7	80	calm	0	0		0	3 s			0.03	0.8	clear	F. W. Brandenburg
Williamsport, Pa	29.41	747.0	29.99	761.7	69	20.6	81	w.	2	0.9		3 k	4 ks	w.	w.	0	0	fair	R. F. Hough.
Wilmington, N. Carolina	30.05	763.3	30.10	764.5	79	26.1	88	w.	2	0.9		0	0			0.03	0.8	clear	A. T. Sherwood.
Winnemucca, Nevada	25.65	651.5	29.87	758.7	52	11.1	33	ne.	10	4.5		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.76	730.5	30.04	763.0	64	17.8	78	se.	1	0.4			10 s			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.09	754.1	29.83	757.7	79.2	26.2	54	se.	5	2.2		0	1 s		se.	0	0	clear	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1			54.0	12.2	77	s.	3	1.3		1 c	1 ks; s	sw.	nw.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.01	762.2	30.02	762.5	81	27.2	95	e.				5 k	10 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.00	762.0	30.03	762.7	77	25.0	99	calm	0	0		0	8 ks		calm	1.10	27.9	cloudy	J. I. Plume.
Kingston, Jamaica, W. I																			Robert Johnston.
Magua, San Domingo, W. I					72	22.2		calm			0	2 cs	0	e.		0	0		S. M. Pike.
Navassa	29.86	758.4	29.94	760.5	81	27.2	76	ne.	6	2.7		6 n	2 s	e.	nw.	0.30	7.6	cloudy	F. M. Everett.
Paramaribo, S. A	30.04	763.0	30.05	763.3	77	25.0	91	ne.			2	5 ck	4 k	e.	e.	0.200	5.1	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.36	745.7	29.92	760.0	79	26.1	85	calm			0	10 ck	0	calm		0.03	0.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A							96	ne.			2		10 ks		ne.	0.04	1.0	fair	Earl Flint.
Santiago de Cuba, W. I	30.00	762.0	30.02	762.5	79	26.1	78	n.	2.4	1.1		2 c	7 s			0	0	cloudy	Robert Mason.
York Factory, B. A	29.97	761.2	30.03	762.7	50.0	10.0	93	se.	10	4.5		3 k	3 s	se.	se.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, N. 3° 04′ W. 20° 35′	30.09	764.3	78.5	25.8	67	ese.			4		4							d. clouds.
H. M. S. Amethyst, S. 31° 04′ W. 49° 22′	29.81	757.2	56	13.3	80	w.			8		7	sw.				5	w.	squally.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.77	756.1	79	26.1		nne.			3		3	n.						d. clouds.
H. M. S. Bacchante, N. 38° 44′, W. 14° 00′	30.16	766.1	67	19.4	84	n.			6		7	n.				6	nnw.	misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.16	766.1	64	17.8		calm			0		5							drizzling.
H. M. S. Champion, N. 34° 45′ E. 140° 15′			78	25.6	100	s.			1		0							blue sky.
H. M. S. Comus, N. 49° 00′, W. 136° 55′	29.88	758.9	54	12.2	100	wsw.			3-4		8	nne.				4	sw.	d. clouds.
H. M. S. Diamond, S 9° 01′, E. 159° 44′	29.87	758.7	83	28.3	87	calm			0		7	n.						d. clouds.
H. M. S. Dido, N. 14° 50′, W. 61° 30′	30.05	763.3	80	26.7		ne.			1-2									showery.
H. M. Dock-Yard, Bermuda, W. I.	30.17	766.3	82	27.8	91	wnw.			3		3	wnw.						d. clouds.
H. M. S. Druid, N. 42° 57′, W. 43° 25′	30.25	768.3	76	24.4	92	sse.			2		6	wsw.				1	sse.	d. clouds.
H. M. S. Dwarf, S. 30° 56′, W. 49° 48′	29.78	756.4	51.5	10.8	93	w.			6-7		7					6-7	w.	squally.
H. M. S. Eclipse, N. 22° 17′, E. 37° 40′	29.75	755.6	93	33.9		var.			1		2							d. clouds.
H. M. S. Emerald, N. 23° 45′, W. 31° 35′	30.13	765.3	75	23.9	100	nne.			4		9	nne.				3	ne.	d. clouds.
H. M. S. Espiegle, S. 17° 35′ E. 168° 16′	29.95	760.7	74	23.3	72	ssw.			2		3	w.						d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.04	763.0	59.5	15.3	91	calm			0		10							d. clouds.
H. M. S. Garnet, N. 27° 45′ W. 36° 00′	30.28	769.1	77	25.0	82	nne.			3		0							blue sky.
H. M. S. Griffon, N. 49° 30′, W. 57° 52′	29.88	758.9	54	12.2	73	se.			1		0							blue sky.
H. M. S. Iron Duke, N. 50° 50′ E. 142° 06′	29.80	756.9	63	17.2	88	ssw.			1		10							foggy.
H. M. S. Kingfisher, N. 48° 10′ W. 124° 50′	30.09	764.3	50	10.0		calm			0		4							d. clouds.
H. M. S. Lark, S. 10° 28′, E. 161° 59′	29.95	760.7	77.3	25.2	93	calm			0		3							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.02	762.5	51.5	10.8		calm			0		10							d. clouds.
H. M. S. Magpie, N. 35° 06′, E. 129° 03′	29.82	757.4	79.9	26.6	80	ene.			1-2		0							misty.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.82	757.4	81	27.2	82	nw.			3		0					2	nw.	misty.
H. M. S. Nelson, S. 35° 16′, E. 174° 08′	29.22	742.2	56	13.3	80	wsw.			3									blue sky.
H. M. S. Orontes, N. 32° 30′, E. 25° 55′	29.84	757.9	77.5	25.3	88	wnw.			4		0					3	wnw.	blue sky.
H. M. S. Pegasus, N. 5° 24′, E. 100° 20′	29.81	757.2	79.5	26.4	90	calm			0		10							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Is'd	30.13	765.3	67	19.4	94	e.			2-3		9	ese.						showery.
H. M. S. Rocket, Vancouver Island, B. A.	30.07	763.8	50	10.0	100	calm			0		4							d. clouds.
H. M. S. Sappho, N. 11° 00′ W. 150° 00′	29.87	758.7	77.5	25.3		ne.			2-5		3	ne.				4-5	ne.	raining.
H. M. S. Swiftsure, S. 44° 40′, W. 63° 15′	30.46	773.7	39.5	4.2	91	sse.			4-6		7	se.				7	se.	showery.
H. M. S. Sylvia, Montevideo, Uruguay	30.13	765.3	42.7	5.9	79	s.			6		9	s.						squally.
H. M. S. Tenedos, N. 51° 32′ W. 55° 45′	29.91	759.7	58	14.4	81	calm			0		10							overcast.
H. M. S. Thetis, S. 5° 50′ W. 81° 10′	30.01	762.2	61	16.1	94	se.			3		6					3	s.	d. clouds.
H. M. S. Triumph, Sandy Point, Patagonia.	30.36	771.1	34	1.1	79	nnw.			1		6	nne.						d. clouds.
H. M. S. Tyne, N. 38° 44′, W. 30° 42′	30.42	772.7	72.5	22.5	100	e.			3-4		7	calm				3	e.	d. clouds.
H. M. S. Woodlark, Jask Bay, Persia	29.53	750.0	92.5	33.6	73	s.			1-2		0							blue sky.
H. M. S. Zephyr, N. 35° 05′, E. 139° 40′	29.91	759.7	80	26.7	91	s.			3-5		0					3	sw.	blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Bulama, Senegambia	30.13	765.3	80.6	27.0	88	calm			0		9			17 h'r	17 h'r			raining.
Tamega, Macao, China	29.65	753.2	86.0	30.0	78	ese.			2		1							blue sky.
SWEDISH NAVAL.																		
Saga, N. 64° 08′, E. 3° 10′	29.92	759.9	57.9	14.4	99	s.			7		10							overcast.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	30.06	763.5	78	25.6	86	ne.	2	0.9			8		ne.	0.02	0.5			fair.
N. Yard, Portsmouth, N. H.	29.88	758.9	76	24.4	77	calm	0	0			9			0	0			cloudy.
Naval Hospital, Yokohama, Japan*	29.81	757.2	78.5	25.8	82	sw.			3		0			0	0			clear.
Adams, Mare Island, Cal.						sw.			2		10			0	0	sm'h		cloudy.
Alaska, Callao, Peru	30.00	762.0	59	15.0	100	calm			0		2			0	0	sm'h		fair.
Alliance, N. 42° 01′, W. 70° 14′	29.91	759.7	75	23.9	86	wnw.			2		5			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan*	29.85	758.2	79	26.1	86	ssw.			3		2		calm					clear.
Brooklyn, Rio de Janeiro, Brazil	30.00	762.0	72	22.2	90	w.	2	0.9			5		w.	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.92	760.0	75	23.9	77	sw.	1	0.4			8			0	0			hazy.
Constellation, New York, N. Y*	29.91	759.7	75	23.9	77	wnw.			1		8		w.					fair.
Essex, Valparaiso, Chili	30.08	764.0	52	11.1	73	se.			1		5?		se.			sm'h	ese.	clear ?
Franklin, Norfolk, Va.	30.03	762.7	76	24.4	91	sw.	9.6	4.3			2		sw.	0.20	5.1			fair.
Galena, Gibraltar, Mediterranean	29.96	761.0	73	22.8	95	e.			2		8		ese.			mod.	ssw.	fair.
Independence, Mare Island, Cal.	30.01	762.2	56	13.3	?	sw.			3		10		sw.	0	0			cloudy.
Iroquois, N. 36° 21′, W 122° 17′	30.01	762.2	56	13.3	94	ssw.			1		10					mod	sw.	misty.
Kearsarge, Norfolk, Va.	30.03	762.7	76	24.4	95	sw.			1		2		sw.					fair.
Lackawana, Callao, Peru*	30.01	762.2	60	15.6	94	calm			0		8							cloudy.
Lancaster, N. 40° 32′ E. 14° 17′	29.90	759.4	80	26.7	91	n.			1		0			0	0	sm'h		clear.
Marion, S. 34° 54′, W. 56° 13′	30.11	764.8	45	7.2	92	sse			6		10		s.	light	light	r'gh	s.	cloudy.
Michigan, Green Bay, Wisconsin	30.14	765.5	56	13.3	75	nw.			2		2		nw.					fair.
Minnesota, Newport, R. I.	29.97	761.2	77	25.0	77	nnw.	1	0.4			5							fair.
Monocacy, Che Foo, China	29.79	756.7	80	26.7	82	s.			2		2		ssw.			sm'h		fair.
New Hampshire, Newport, R. I.	29.93	760.2	74	23.3	86	calm			0		8					sm'h		cloudy.
Nipsic, Tripoli, Africa*	29.97	761.2	79	26.1	74	nne.			2		5					long	nne.	fair.
Onward, Callao, Peru†	30.13	765.3	59	15.0	100	calm			0		8		ne.			long	w.	cloudy.
Palos, Kobe, Japan*	29.82	757.4	82	27.8	83	calm			0		8		s.					fair.
Passaic, Washington, D. C.	30.03	762.7	73	22.8	?	w.			1		10		ne.					cloudy.
Pensacola, Panama, Panama*	29.82	757.4	78	25.6	91	nw.	6	2.7			2		nw.	0	0	sm'h		fair.
Portsmouth, Genoa, Italy*	29.82	757.4	76	24.4	64	s.			2		5?							clear ?
Powhatan, N. 25° 11′, W. 83° 09′	30.08	764.0	83	28.3	83	e.			2		2		e.			sm'h		clear.
Quinnebaug, Alexandria, Egypt	29.81	757.2	80	26.7	91	wnw.			3		0					sm'h		hazy.
Ranger, Mare Island, Cal.	30.01	762.2	58	14.4	82	sw.			3		10			0	0			overcast.
Richmond, Yokohama, Japan*	29.85	758.2	79	26.1	91	ssw.			3		0			0	0			clear.
Saratoga, Genoa, Italy	29.85	758.2	83	28.3	71	s.			2		2		s.	0	0	sm'h		fair.
St. Louis, League Island, Pa.	30.19	766.8	77	25.0	77	w.			1		10		w.	0	0			cloudy.
Swatara, Kobe, Japan*	29.75	755.6	83	28.3	79	calm			0		8		calm			sm'h		hazy.
Tennessee, N. 42° 02′, W. 70° 15′	29.96	761.0	76	24.4	86	wnw.	12	5.4			8			0	0			misty.
Vandalia, Portsmouth, N. H*	29.86	758.4	73	22.8	85	calm			0		9		w.					cloudy.
Wabash, Boston, Mass.	29.96	761.0	72	22.2	51	w.	6	2.7			5		w.	0.27	6.9			fair.
Wachusetts, Fort Wrangle, Alaska†	29.97	761.2	52	11.1	93	calm			0		10		calm	0	0	sm'h		rainy.
Wyoming, Port Royal, S. C.*	30.15	765.8	78	25.6	78	wnw.	6	2.7			2		calm	0	0			clear
Yantic, Boston, Mass.	29.90	759.4	72	22.2	85	w.			1		5							fair.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 55° 52′, W. 12° 50′.*	30.01	762.2	57	13.9	93	w.			4		10		wsw.	lmp.	lmp.	3	wsw.	overcast.
S. S. Grecian, Glasgow, Scotland*	30.19	766.8	70	21.1		wsw.			3		6		sw.					cloudy.
S. S. Scandinavian, N. 55° 47′, W. 4° 58′*	30.05	763.3	59	15.0		s.			4		8		s.	0	0			d. clouds.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, N. 43° 19′, W. 46° 54′*†	30.12	765.0				ssw.			2		3		ssw.	0	0	sm'h		fine.
S. S. Lord Gough, N. 49° 42′, W. 39° 39′	30.11	764.8	56	13.3		se.			6		10		se.	4 h'r	4 h'r	mod.	se.	hazy.
ANCHOR LINE.																		
S. S. Alexandria, Castellamare, Italy	29.99	761.7	72	22.2		n.			3		4		nnw.	0	0			fair.
S. S. Ethiopia, New York, N. Y	29.95	760.7	76	24.4	86	sw.			2		8		sw.	2 h'r	2 h'r			cloudy.
S. S. Galatia, Bombay, India†	29.89	759.2	88	31.1		ssw.			4		6		wsw.	4 h'r	4 h'r	mod.	wsw.	showery.
S. S. India, N. 41° 54′, W. 67° 38′*	29.86	758.4	67	19.4	94	sw.			2									dense fog.
S. S. Utopia, N. 49° 22′ W. 26° 27′†	30.46	773.7	58	14.4	76	n.			3		10		n.	0	0	light	nw.	cloudy.
ATLAS LINE.																		
S. S. Ailsa, N. 10° 26′, W. 75° 37′†	29.92	760.0	83	28.3	83	calm			0		5		ne.	0	0	sm'h		fair.
S. S. Alene, N. 38° 21′, W. 73° 42′†	30.04	763.0				ssw.			2		7		sw.	0	0		sw.	cloudy.
S. S. Alpin, N. 21° 34′, W. 66° 58′	30.12	765.0				e.			5		10		ese.	4 h'r	4 h'r	mod.	se.	
S. S. Alvo, Colon, U. S. C.	29.91	759.7				nw.			6		7		nw.	12 h'r	12 h'r	mod.	nw.	rainy.
BOSTON AND HALIFAX LINE.																		
S. S. Carroll, Halifax, N. S.†	29.96	761.0				sse.			3		fg			2 h'r	2 h'r		se.	foggy.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 32° 40′ W. 30° 01′	30.01	762.2	65	18.3	89	nnw.			6		6							squally.
S. Baroda, S. 18° 48′, E. 1° 01′	30.25	768.3	65.4	18.6	78	sse.			5		5							d. clouds.
S. S. City of Agra, S. 30° 29′, W. 33° 30′	30.10	764.5	64.2	17.9	86	n.			5		7							d. clouds.
Bk. Commewyne, N. 34° 29′, W. 56° 44′	30.19	766.8	77.6	25.3	82	sw.			4		5							d. clouds.
S. S. Markland, S. 35° 42′, W. 76° 20′	30.04	763.0	55	12.8	93	nnw.			3		5					3	sse.	d. clouds.
May Hulse, N. 23° 11′, W. 33° 38′	30.14	765.5	78.5	25.8	82	nne.			4		10							overcast.
S. Oumarn, S. 18° 38′, W. 2° 46′	30.27	768.8	68.0	20.0	74	ese.			5		4							showery.
S. S. Rosetta, N. 28° 38′, E. 122° 11′	29.68	753.9	83.5	28.6	79	nne.			4		6							d. clouds.
CUNARD LINE.																		
S. S. Bothnia, N. 43° 18′, W. 51° 00′	30.14	765.5	72	22.2	90	w.			3		10		w.	¾ h'r	¼ h'r		w.	foggy.
S. S. Scythia, New York, N. Y	29.96	761.0	78	25.6	73	w.			1		7		wsw.	0	0			cloudy.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 49° 49′, W. 5° 09′†	30.34	770.7	59.0	15.0		nw.			2	ck		nw.		0	0	sm'h	w.	clear.
S. S. Ville de Marseilles, Malaga, Spain*†	29.90	759.4	79	26.1		sse.			3		0			0	0	sm'h		clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Bohemia, N. 40° 44′, W. 69° 58′†	30.10	764.5				w.			3		7		wsw.	0	0	sm'h	wsw.	foggy
S. S. Gellert, N. 49° 32′, W. 26° 34′	30.29	769.4	62	16.7		w.			2		5		sw.	0	0	sm'h	sw.	foggy.
S. S. Herder, Hamburg, Germany	30.09	764.3	67	19.4		sw.			2		10		s.	6 h'r	6 h'r			covered.
S. S. Silesia, N. 47° 10′, W. 32° 32′†	30.44	773.2	63.3	17.4	94	se.			4		8		s.	0	0	4	sw.	cloudy.
S. S. Westphalia, N. 47° 12′, W. 50° 29′	29.93	760.2	63	17.2	61	wsw.			1		10		nw.	0	0	sm'h	ssw.	foggy.
INMAN LINE.																		
S. S. City of Berlin, N. 51° —′ W. 23° —′	30.25	768.3				nnw.			6		10		w.	0	0	mod.	nw.	overcast.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Montevideo, Uruguay*†	30.20	767.1	54	12.2		sse.			8		0			2 h'r	2 h'r			clear.
LEYLAND LINE.																		
S. S. Bulgarian, N. 43° 34′, W. 54° 32′*	30.08	764.0				wsw.			1		fg.		wsw.	1 h'r	1 h'r			foggy.
MALLORY LINE.																		
S. S. Colorado, New York, N. Y.†	29.96	761.0	74	23.3		n.			1		8		n.	0	0			fair.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Brooklyn, N. Y.*†	29.99	761.7	77	25.0	86	nnw.			1		7		w.	0	0			cloudy.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 42° 58′ W. 54° 24′*†	29.85	758.2	75.2	24.0		wsw.			2		2		wsw.	0	0	mod.	sw.	hazy.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 29° 59′ W. 65° 48′	29.83	757.7				wsw.			4				sw.	0	0	sm'h	w.	fine.
S. S. Glenapp, N. 27° —′, W. 66° —′†	30.30	769.6				se.			2		4		ese.	0	0	short		fine.
NATIONAL LINE.																		
S. S. Canada, N. 47° 46′, W. 23° 19′†	30.33	770.4	62	16.7		w.			2		9		nw.	0	0	sm'h	nw.	misty.
S. S. Denmark, New York, N. Y	29.91	759.7	79	26.1		wsw.			1		8		wsw.	½ h'r	½ h'r			cloudy.
S. S. England, N. 47° 12′, W. 33° 52′	30.23	767.8				s.			3		10		s.	0	0	sli't	nnw.	foggy.
S. S. Erin, New York, N. Y.	29.92	760.0	81	27.2		sw.			3		0			0	0			fine.
S. S. The Queen, N. 40° 58′, W. 57° 25′	30.07	763.8	73	22.8		sw.			3		5?			0	0	mod.	sw.	clear?
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY																		
S. S. Santiago, Cienfuegos, Cuba. W. I †	30.07	763.8	80	26.7		e.			1		1		ene.	0	0			fine.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 33° 34′, W. 76° 42′†.	30.11	764.8	84	28.9	91	sw.			3		5		se.	0	0			fair.
S. S. City of Washington, N. 21° 20′, W. 89° 38′*†	30.20	767.1	85	29.4		e.			2		2		e.	0	0	sm'h		fine.
NORTH GERMAN LLOYD.																		
S. S. Hermann, N. 48° 00′, W. 27° 58′	30.38	771.6	62.6	17.0		wnw.			3		6		w.	0	0	light	wsw.	cloudy.
S. S. Leipzig, N. 42° 49′, W. 44° 57′	30.22	767.6	89.0	31.7	75	ssw.			2		2		wsw.	1½ h'r	1½ h'r	sm'h		clear.
S. S. Neckar, N. 41° 44′, W. 55° 55′	30.13	765.3	78.6	25.6		sw.			2		5?		sw.	0	0	sm'h	sw.	clear.?
S. S. Ohio, N. 48° 53′, W. 10° 21′	30.35	770.9				w.			1		7?		sw.	0	0	sm'h	sw.	covered?
S. S. Rhein, N. 40° 23′, W. 72° 00′	29.92	760.0				wsw.			2		2		wsw.	0	0	mod.	wsw.	fair.
S. S. Salier, N. 49° 39′, W. 10° 37′	30.34	770.1	53.6	12.0		wsw.			3		8		wsw.	0	0	mod.	wsw.	cloudy.
S. S. Strassburg, N. 38° 15′, W. 70° 50′	30.06	763.5	80	26.7	91	w.			3		8		w.	0	0	mod.	w.	covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, San Francisco, Cal*†	30.10	764.5	57	13.9	93	nw.			6		5		nw.	0	0	mod.	nw.	d. clouds.
S. S. Belgic, N. 42° 29′, W. 158° 20′†	30.55	776.0	65	18.3	94	sw.			3		8		wsw.			mod.	sw.	foggy.
S. S. Gaelic, N. 40° 57′, E. 168° 35′†	29.90	759.4	60	15.6	100	w.			4		6		nw.			con.		showery.
S. S. Oceanic, N. 45° 12′, E. 164° 06′*	29.65	753.1	52	11.1	93	nw.			5		10		nw.			2	nw.	free.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y †	30.00	762.0				w.			1		6		w.	0	0			smoky.
S. S. City of Columbus, Savannah, Ga †	30.12	765.0							2		0			⅛ h'r	⅛ h'r			clear.
S. S. Seminole, Off Hatteras, N. C †	30.22	767.6	86	30.0	83	sw.			3		1		sw.	0	0	sm'h	sw.	clear
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 42° 40′ W. 124° 30′†	30.09	764.3	54	12.2	86	n.			3		0							hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Diego, Cal †	29.99	761.7	62	16.7	83	w.			2		10		sw					cloudy.
S. S. City of Chester, San Francisco, Cal*†	29.91	759.5	54	12.2	100	w.			2		8		w.					cloudy.
S. S. Idaho, Portland, Oregon †	30.14	765.5	57	13.9	87	se.			2		0							clear.
S. S. State of California, Portland, Oregon †	30.03	762.7	54	12.2	86	se.			2		0							clear.
S. S. Victoria, Nanaimo, Vancouver's Island †	29.07	761.2	57	13.9	87	calm			0		5			0	0			fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	30.07	763.8	45	7.2	84	sw.			5		5			0	0			misty.
S. S. City of New York, Sydney, N. S. W †	29.93	760.2	59	10.0	65	w.			3		0			0	0			clear.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.09	764.3	78	25.6	91	nw.			2		5		nw.	0	0	sm'h		fair
S. S. City of Sydney, N. 11° 12′. W. 161° 51′†	29.94	760.5	79	26.1	91	ne			5		8		ne.	0.125	3.2	mod.	ne.	light rain.
S. S. City of Tokio, N. 26° 47′, E. 121° 40′†	29.60	753.4	83	28.3	87	wnw.			6		8		nnw	0	0	r'gh	var.	
S. S. Colima, N. 33° 53′ W. 120° 30′†	30.00	762.0	58	14.4	88	calm			0		10		nw	0	0	sm'h	w.	cloudy.
S. S. Costa Rica, Panama, Panama*†	29.95	760.7	77	25.0	100	nw.			4		5		nne.	0	0	sm'h		fair.
S. S. Grenada, Acapulco, Mexico†	29.99	761.7	80	26.7	?	calm			0		3		e.	0	0			clear.
QUEBEC STEAMSHIP CO.																		
S. S. Bermuda, St. Pierre, Martinique, W. I. †	29.95	760.7	81	27.2		e.			1		5?		e.	3 h'r	3 h'r	sm'h		cloudy.
RED STAR LINE.																		
S. S. Belgenland, Philadelphia, Pa †	30.10	766.8	93	33.9	78	s.			3		5		s.	0	0			

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
RED STAR LINE—Continued.																		
S. S. Rhynland, N. 47° 10′, W. 33° 15′	30.41	772.4	66	18.9	84	w.			5		9		sw.	5 h'r	5 h'r	long	ssw.	foggy.
S. S. Switzerland, N. 40° 38′, W. 48° 57′†	30.23	767.8				sse.			1		8		sse.	o	o	long	ssw.	fair.
S. S. Vaderland, N. 40° 30′, W. 70° 44′	29.79	756.7	75	23.9	90	w.			2		10		w.	o	o	sm'h		hazy.
ROTTERDAM LINE.																		
S.S. Schiedam, N. 47° 34′ W 31° 31′*	30.29	769.4	65.1	18.4	88	w.			3		10		w.	3 h'r	3 h'r	mod.	w.	foggy.
S. S. W. A. Scholten, N. 40° 55′, W. 58° 09′	29.96	761.0	78.9	26.1	82	ssw.			4		3		wsw.	o	o	sm'h	w.	
STATE LINE.																		
S. S. State of Florida, N. 43° 16′, W. 46° 47′	30.13	765.3	70	21.1		sw.			2		4		sw.	o	o	mod.	sw.	fair.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 59° 20′, W. 1° 32′†	30.40	772.1	64.4	18.0		sw.			4		5		sw.	o	o	long	sw.	clear.
W. I. & PACIFIC S. S. CO.																		
S. S. Venezuela, N. 41° —′, W. 55° —′*	30.05	763.3	78	25.6	95	sw.			3		2		ssw.			sm'h		clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 41° 26′, W. 45° 02′	30.23	767.8							2		2		sw.	o	o	2	wsw.	fine.
WHITE STAR LINE.																		
S. S. Adriatic, N. 51° 49′, W. 7° 35′†	30.34	770.6	58.5	14.7	91	s.			2		5		s.	2 h'r	2 h'r	gentle	s.	fair.
S. S. Baltic, Off Sandy Hook, N. J.†	30.08	764.0	76	24.4	95	nnw.			2		9		ne.	o	o	sm'h		misty.
S. S. Celtic, N. 51° 24′, W. 14° 52′†	30.28	769.1	61	16.1	94	w.			2		10		w.	4 h'r	4 h'r	sm'h		foggy.
S. S. Republic, New York, N. Y†	30.13	765.3	74	23.3	81	w.			1		9		w.	o	o			d clouds.
WILSON LINE.																		
S.S. Romano, Beachy Head, Eng	30.18	766.6	64	17.8		calm			0		1			o	o	sm'h		clear.
WINSOR LINE.																		
S. S. Catherine Whiting, Providence, R. I†	30.00	762.0	76	24.4		sw.							s.	o	o			
MISCELLANEOUS.																		
Bg. Abbie Clifford, N. 41° 01′ W. 69° 26′*†	30.00	762.0	70	21.1		sw.			3		9		w.	o	o		s.	foggy.
Schr. Ajax, N. 23° 50′ W. 83° 55′†	30.12	765.0				ese.			1		4		e.	o	o	sm'h	e.	fair.
Bk. Alpha, N. 44° 10′, W 47° 40′†	30.15	765.8	74	23.3		ssw.			4		8		w.	o	o	sm'h		foggy.
Schr. Annie Lewis, N. 28° 50′, W. 90° 30′†	30.21	767.3	83	28.3		sse.			1		0			o	o	long	se.	clear.
Bk. Anna Thorman, S 38° 35′, E. 63° 28′	30.10	764.6	54.9	12.7	79	wsw.			6		4 k		w.	sh'rs	sh'rs	long	sw.	squally.
S. S. Antonio Lopez, Havana, Cuba, W. I.	30.05	763.3				e.			1		3			o	o			fair.
Bk. Argonaut, N. 46° 23′, W. 42° 10′*†	30.18	766.6	62.2	16.8		ssw.			3		10		ssw.	3 h'r	3 h'r	sm'h	w.	foggy.
Schr. Asa Eldridge, Punta Rassa, Fla†	30.22	767.6				ene.			3		2		ese.	½ h'r	½ h'r			fair.
Bk. Bremen, N. 59° 51′. W. 6° 45′*†	30.05	763.3				ssw.			4		6		ssw.	o	o	cross	ssw.	cloudy.
S. S. Burswell, Bordeaux, France*†	30.35	770.9	82	27.8		nne.			2		0			o	o			very fine.
Bk. Cato, Malmo, Sweden*†	30.34	770.1				wnw.			3		3?			o	o			cloudy?
Bk. Celestina, S. 6° 43′ W. 25° 20′*†	30.06	763.5				e.			3		2		e.	o	o	mod	e.	clear.
Schr. C. R. Flint, N. 29° 37′, W. 79° 40′†	30.36	771.1	81	27.2		ene.			1		0			o	o	sm'h		clear.
S. Cornelius, N. 46° 40′, W. 21° 30′*†	30.59	777.0	66	18.9		w.			3		10			6 h'r	6 h'r	sm'h	wnw.	foggy.
S. S. D. J. Foley, N. 20° 25′, W. 74° 00′†	30.00	762.0				e.			4		2		e.	o	o	r'gh	ne.	clear.
Schr. Edith R. Seward, N. 24° 50′, W. 72° 15′*†	30.21	767.3	82	27.8		se.			2		7		se.	2 h'r	2 h'r	r'gh	ese.	cloudy.
S. E. J. Spicer, New York. N. Y*	29.96	761.0	79	26.1		wsw.			2		7		w.	o	o			
Bk. E. L. Pettingill, N. 21° 29′, W. 154° 00′†	30.30	769.6				s.			5		2		e.	o	o	mod.	e.	
S. Enoch Train, N. 46° 35′, W. 25° 24′*†	30.60	777.2				wnw.			2		fg			shr's	shr's	sm'h		dense fog.
Bk. Essex, S. 27° 39′, E. 42° 10′*†	30.20	767.1	76	21.1		se.			5		2		ese.	1 h'r	1 h'r	hv'y	s.	fine.
Bk. Franklin, N. 41° 20′, W. 43° 55′*†	30.62	777.7				s.			1		8			1 h'r	1 h'r	sm'h		
S. Grecian, Hong Kong, China*†	29.70	754.4	88	31.1		calm			0		0			o	o			clear.
Bk Hattie G. McFarland, N. 40° 20′, W. 71° 20′*†	30.03	762.7	77	25.0		wsw.			3		4		nw.	o	o	sm'h	sw.	fair.
Bk. Heinrich & Tonio, N. 39° 41′, W. 60° 04′*†	30.31	769.9	77	25.0		sse.			3		0			o	o	sm'h		clear.
Bk. Horace Scudder, Port of Spain, Trinidad, W. I†	30.05	763.3	82	27.8		se.			1		2		se.	o	o			blue sky.
S. Ivy, S. 20° 15′ W. 129° 29′†	30.21	767.3	74	23.3		nne.			4		2		nne.	½ h'r	½ h'r	mod.	ne.	clear.
S. Ismir, S. 23° 50′ E 103° 46′†	30.27	768.8				ene.			5		6		ene.	o	o	r'gh	e.	fine.
Schr. James Slater, N. 23° 11′, W. 64° 11′*†	30.48	774.2	85	29.4		ese.			3		5		se.	o	o	long	se	
Schr. Jennie N. Huddell, Holmes Hole, Mass†	29.59	751.6	75	23.9	95	w.			1		5		sw.	o	o			dense fog.
Bk. Johanne, N. 46° 50′, W. 44° 45′*†	30.15	765.8	59	15.0		sw.			3		1		sw.	h'vy	h'vy	mod	sw.	foggy.
Bg. John Wesley, St. Jago, Cuba, W. I†	29.87	758.7				ne.			1		2		se.	o	o			clear.
Bk. Joseph A. Ropes, S. 28° 11′, W. 34° 44′*†	30.12	765.0	71	21.7	85	n.			5		4		n.	o	o	mod.	n.	fair.
Bkt. Josephine, Havana, Cuba, W. I†	30.05	763.3	82	27.8	74	e.			2		0			o	o			clear.
Bkt. Kryolith, N. 42° 56′, W. 63° 51′*†	29.90	759.4				ssw.			4		fg.		nw.			short	chop	foggy.
Light House Tender, Laurel, Key West, Florida†	30.10	764.5	85	29.4		ene.			2		5		ene.	sh'rs	sh'rs			fair.
Bk. Liberia, N. 25° 41′, W. 63° 05′.*	30.17	766.3	82	27.8	95	ene.			5		3			o	o			
S. S. Madrid, N. 49° 58′, W. 4° 43′*†	30.40	772.1	65	18.3		nnw.					2		nne.	o	o	sm'h		clear.
S. S. Nebo, Genoa, Italy*†	29.95	760.7				s.			3		0			o	o			clear.
S. Paramita, N. 20° 11′, W. 128° 31′†	29.91	759.7	72	22.2		nne.			5		5?		nne.	2 h'r	2 h'r	short	nnw.	cloudy.?
Bk. Sunbeam, N. 38° 58′, W. 63° 41′†	30.20	767.1	81	27.2	91	s.			6		5		sw.	o	o	sm'h		fair.
S. S. Sunbeam, N. 40° 01′ E. 26° 12′	29.73	755.1	85	29.4	71	nnw.			3		3							d. clouds.
S. Sovereign of the Sea, S. 28° 25′, W. 44° 48′*†	29.75	755.6	69	20.6	100	w.			5		8		nw.	7 h'r	7 h'r	r'gh	nne.	squally.
Bg. Teneriffe, Sagua la Grande, Cuba, W. I	30.01	762.2				e.			2									
Bk. Truro, N. 44° 45′, W. 55° 00′*†	30.04	763.0				s.			2		10			c	o	sm'h		dense fog.
U. S. F. C. S. S. FishHawk, Wood's Holl, Mass†	30.12	765.0	74	23.3	85	calm			0		8		calm	o	o			cloudy.
Bk. Vincenzo Accame, N. 37° 25′, W. 17° 50′†	30.55	776.0	73.4	23.0		nne.			5									
Schr. Viola Reppard, Sharp'sid Light, Md†	29.93	760.2	78	25.6		w.			2		9			o	o			cloudy.
Bk Wm. Wilcox, Buenos Ayres, Argentine Republic*†	30.30	769.6	62	16.7		s.			4		8		s.	o	o			fair.

International Chart I. July 29, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 30, 1882,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.92	759.9	77.0	25.0	79	sw.			1		3			0	0	pretty fair	Bouvier.
Algiers			29.97	761.3	75.9	24.4	69	se.			3		0			inap.	inap.	clear	Nicolas.
La Calle			30.00	762.0	79.9	26.6	79									0	0		Fonfrède.
Tunis			29.99	761.7															Jacques.
Salda			30.00	762.0	94.3	34.6	43	s.			2		3			0.213	5.4	pretty fair	Perés.
Tebessa			30.01	762.2	86.0	30.0	20	ssw.			2		3			0	0	pretty fair	Derché.
Gerlville					92.5	33.6	10	ssw.			5		1			0.028	0.7	very fair	Louchamp.
Laghouat			30.03	762.7	98.2	36.8	27	w.			1		1			0	0	very fair	Abraham.
Biskra			30.01	762.2	94.6	34.8	18	s.			1		8			0	0	covered	Malau.
Australian.																			
Melbourne, Victoria	29.78	756.4	29.88	758.9	43.7	6.5	82	n.	8	3.6			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.37	746.0	29.90	759.4	74.8	23.8	61	w.			2		0			0.030	1.0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.16	740.7	29.90	759.4	72.7	22.6	56	w.	7.4	3.3			8			0.010	0.4		Dr. Wierzbiski.
Eperies	29.05	737.9	29.89	759.3	73.8	23.2	70	se.			2	0	7 s		n.	0	0		Julius Mikolik.
Gratz	28.74	729.9	29.95	760.8	66.6	19.2	87	s.			1		7			0.043	1.1		Andreas Rospini.
Hermannstadt	29.56	725.3	29.92	759.9	74.8	23.8	54	nw.			2		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.62	726.9	29.93	760.3	60.6	15.9	74	nw.			2		10			0.079	2.0	gloomy	Dr. T. Stanecki.
Lemberg	28.94	735.1	29.84	758.0	74.7	23.7	72	w.			1		8			0	0		I. R. Hydrographic Office.
Pola	29.80	757.0	29.91	759.7	80.4	26.9	60	se.			2		4			0	0		Joseph Midlinszay, S. J.
Szathmar	29.52	749.7	29.90	761.0	71.4	21.9	59	sw.			1		7			0	0		Karl Stancel.
Szegedin	29.70	754.3	29.97	761.2	68.4	20.2	80	calm			0		0			0	0		Royal Academy.
Trieste	29.82	757.4	29.92	760.0	79.3	26.3	53	nw.			1		3			0.213	5.4		I. R. Central Met. Obs'y.
Vienna	29.26	743.2	29.90	761.0	65.3	18.5	69	w.			1		9			0.039	1.0		
British.																			
Aberdeen	29.92	760.0	30.01	762.2	61.0	16.1	53	nw.	9	4.0			9			0.010	0.3	overcast	W. Boswell
Armagh, Observatory	29.93	760.2	30.10	766.1	61.4	16.3	73	wnw.	7	3.1									S. Call.
Bidston, Liverpool Obs'y					60.0	15.6	97	w.	20	8.9			10					overcast	John Hartnup.
Bolton, Sharples	29.51	749.5	30.04	763.0	58.8	14.9	95	w.	36	16.1			10					raining	Thomas Mackereth, [ton.
Bradford, Yorkshire																0	0		McLandsborough & Pres-
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	83.0	28.3	75	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			30.05	763.3	73.6	23.1	70	nw.			0.6		1					blue sky	John McLaren.
Chatham, School M. E.	29.95	760.7	30.08	764.0	70.9	21.6	73	sw.			1		9					misty	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.99	761.7	30.21	767.3	65.0	18.3	76	wnw.			2		9					overcast	The Staff.
Fort Napier, Natal	27.62	701.5	29.84	757.9	63.5	17.5	60	se.			1		2					blue sky	Pvt. Lane, A.H.C.
Free Town, Sierra Leone	29.69	754.1	29.92	760.0	80.0	26.7	86	w.			6		6					drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	30.04?	763.0?	30.10?	764.5?	76.6	24.8	80	ne.			4		6					d. clouds	Cpl. O. Baldwin.
Glasgow, Observatory	29.77	756.1	29.97	761.2	57.1	13.9	74	se.			4		5 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.90	759.4	30.06	763.5	71.0	21.7	67	w.			1		4					misty	The Staff.
Guernsey	29.90	759.4	30.19	766.8	64.0	17.8	78	nw.			1		2					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.05	763.3	30.08	764.0	70.5	21.4	61	wnw.	10	4.5			6					hazy	The Staff.
Leicester, Museum	29.82	757.4	30.07	763.8	70.2	21.2	60	w.			2		10					overcast	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.01	762.2	77.0	25.3	63	ne.			2		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.12	765.0	30.16	766.1	80.2	26.8	82	se.			1		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.59	751.6	30.10	764.5	66.0	18.9	70	nw.			4		10					overcast	Warren Middleton.
Oxford, Radcliffe Obs'y	29.87	758.7	30.10	764.5	70.7	21.5	60	wsw.			3		1					misty	The Staff.
Plymouth	30.10	764.5	30.18	766.6	71.3	21.8	71	w.			2		6					d clouds	John Merrifield.
Sandwick Manse, Orkneys			29.99	761.7	57.1	13.9	77						6					showery	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.80	756.9	29.86	758.4	90.8	32.8	48	ne.			2		1					blue sky	W. H. Lyne.
Sheffield	29.80	756.9	30.07	763.8	68.3	20.2	76	wsw.			2		10			inap.	inap.	overcast	W. F. Cooper.
Silloth Rectory	30.04	763.0	30.08	764.0	59.4	15.2	85	w.			2		10			0.193	4.9	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.09	764.3	60.0	15.6	90	w.	14	6.3			10					overcast	Rev. S. J. Perry.
Stratfield Turgiss					76.3	24.6	17	w.			3		2					blue sky	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.18	766.6	30.19	766.8	65	18.3	78	nw.			2		10					gloomy	W. Newcombe.
Valencia, Observatory	30.23	767.8	30.26	768.6	59.6	15.3	70	nw.	17	7.6			4					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.91	759.7	29.95	760.7	62	16.7	79	n.	13	5.8			10 n		ne.	0.085	2.2	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.98	761.5	30.04	763.0	62	16.7	84	nw.	8	3.6		3 k	1 ks	nw.	nw.	0.40	10.2	fair	G. A. Blair.
Father Point, Quebec*	30.09	764.3	30.11	764.8	54	12.2	100	calm	0	0		0	2 s		calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.23	742.4	30.03	762.7	62	16.7	93	se.	6	2.7		2 ck	1 ks	w.	sw.	0.010	0.3	fair	James Stewart.
Halifax, N. S*	29.80	756.9	29.92	760.0	64	17.8	84	n.	8	3.6			10 k		n.	0.040	1.0	cloudy	A. Allison.
Kingston, Ontario*	29.81	757.2	30.14	765.5	68	20.0	73	n.	3	1.3		0	0			0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.91	757.9	30.11	764.8	68	20.0	63	n.	7	3.1		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.52	749.8	30.20	767.1	64	17.8	78	ne.	6	2.7		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.50	749.3	30.18	766.6	64	17.8	89	n.	6	2.7		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.52	749.8	30.16	766.1	62	16.7	75	se.	5	2.2		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.77	756.1	30.08	764.0	58	14.4	93	e.			1	10 cs	0	e.		0.01	0.3	hazy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.74	755.4	30.19	766.8	59	15.0	87	nw.	3	1.3		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.50	749.3	30.19	766.8	65	18.3	87	e.	4	1.8		0	0			0	0	clear	
St. Andrews, N. B.	29.96	761.0	30.01	762.2	60	15.6	82	ne.	7	3.1		5 k	2 ks	n.	n.	0.37	9.4	fair	
Sydney, C. B*	29.80	756.9	29.86	758.4	58	14.4	93	n.	16	7.2			10 n		ne.	0.41	10.4	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.81	757.2	30.19	766.8	66	18.9	58	n.	9	4.0		0	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.87	758.7	29.94	760.5	61	16.1	90	n.	10	4.5			8 k		n.	0	0	cloudy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.73	729.7	30.14	765.5	63.0	17.2	72	n.			2	0	0			0	0	clear	Wm. Wylie.
St. Johns, Newfoundland	29.98?	761.5?	30.23?	767.8?	50	10.0	100	n.					10 n					raining	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.20	767.1	30.23	767.8	62.0	16.7	82	wsw.	19.1	8.5		0	2 k			0	0	clear	John Duthie.
Cape Town, C. G. H. Obs'y	30.22	767.6	30.26	768.6	62.1	16.7	82	s.	27	12.1		6	6			0.270	6.9		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.62	752.0	29.63	752.6	81.1	27.7	89	ne.	8.5	3.8		0	5 k		ne.	0	0	cloudy	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.72	754.9	29.77	756.1	70.3	21.3	81	ese.	11	5			10						Oversergent Fischer.
Faröe	29.81	757.2	29.83	757.7	62.6	17.0	91	nw.			4		10						Overloerer Lauridsen
Godthaab, Greenland	29.73	755.1	29.77	756.1	43.7	6.5	87	nne.			4		7			0	0		S. Kleinschmidt.
Stykkisholm, Iceland	29.45	748.0	29.49	749.1	50.9	10.5	76	w.			4		8						A. O. Thorlacius
Thorshavn	29.78	756.4	29.82	757.3	54.7	12.6	78	sw.	9	4			7						Overloerer Bergh.
Vestervig	29.77	756.2	29.86	758.5	63.9	17.7	85	nne.			2		10					raining	Loerrer Oesterbol.
FRENCH.																			
Agen, Normal School	29.51	749.6	30.18	766.5	77.0	25	46	w			1		k		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.61	752.1	30.16	766.1	69.1	20.6	59	sw.			2		k	n.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.97	761.3	30.23	767.8	55.8	13.2	90	ene.			2		k			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.89	759.2	29.97	761.2	78.1	25.6	44	n.			4		0			0	0	clear	M. Girand, Director.
Bar-sur-Seine	29.57	751.1	30.11	764.8	68.5	20.3	56	nne			1		7		nw.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.85	758.2	30.11	764.7	71.6	22.0	55	nw.			2		8		n.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.15	740.3	30.03	762.7	60.8	16.0	79	ne.			1		10 ku		n.	0.08	2.	covered	M. Gobin, Director.
Bordeaux, Observatory	29.88	758.9	30.13	765.3	74.3	23.5	40	nnw.			1		8			0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.54	750.4	30.08	764.0	73.4	23	49	nw.			1	2 k	0	nw.		0	0	slightly cl'y	M. Matet, Director.
Brest, Naval Observatory	30.01	762.2	30.25	768.3	65.5	18.6	97	nne.			1		8		nne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.15	766.7	30.22	767.5	70.3	21.3	63	w.			2		2		w.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N. Sch'l	29.67	753.6	29.98	761.6	68.0	20.0	65	w			2		5			0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.53	750.1	30.03	762.8	64.0	17.8	72	n.			1					0	0		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.75	730.2	30.06	763.5	70.9	21.6	53	n.			2	0	8 k			0.071	1.8	stormy	M. Allnard, Director.
Cluny, Normal School	29.26	743.2	30.08	764.0	68.7	20.4	54	ene.			1		10		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.21	742.0	30.06	763.5	66.9	19.4	66	wnw.			1		2 kne	wnw.	wnw.	0.047	1.2	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.47	697.6	29.90	759.4	74.8	23.8	33	s.			4	3	4		ne.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.81	731.8	29.88	759.0	79.5	26.4	31	nw.			1		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.28	743.6	30.02	762.5	68.7	20.4	57	nnw.			3		k		n.	0	0		M. Ablard, Director.
Guéret, Normal School	28.50	724.0	30.04	763.1	66.2	19	47	w.			1		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	29.98	761.4	30.24	768.2	71.6	22	74	n.			3		2		n.	0	0	slightly cl'dy	M. Ollitrault, Director.
Lescar, Normal School	29.58	751.4	30.13	765.3	73.4	23.0	52	n.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.13	765.2	30.23	767.8	70.3	21.3	70	wnw.			1		5		nw.	0.118	3.0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.04	737.7	30.08	764.1	67.6	19.8	59	nnw.			1	8 c	2 n		nne.	0	0	covered	M. André, Director.
Mans, Normal School	29.88	758.9	30.18	766.6	67.3	19.6	53	w.			1		2		n.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.65	753.2	29.91	759.8	79.2	26.2	33	wnw.			1		2		wsw	0	0		M. Stephan, Director.
Montlouis	24.95	633.7	29.79	756.7	59.0	15.0	48	n.	16.8	7.5			4	nw.		0	0		M. Cave, for Dr. Flues.
Montpellier, Normal School	29.89	759.3	30.02	762.4	82.8	28.2	35	nw.			2		2			0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.28	743.6	30.05	763.2	62.6	17.0	73	wnw.			1		10		sw.	0.047	1.2		M. Husse, Director
Nantes, Observatory	30.18	766.5	30.22	767.5	70.2	21.2	62	n.			2–3	0	4 k; ku		nne.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.93	760.3	30.04	762.9	80.2	26.8	31	nw.	16.8	7.5			1	ne.	nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.39	543.4			36.5	2.5		se.			1		fg		se.	0	0	dense fog	Geu't de Nansouty, Dir.
Privas, Normal School	29.16	740.7	30.19	766.8	77.4	25.2	27	e.			1		0			0	0	clear	M. Tallien.
Puy de Dôme Obs'y, Summit	25.28	642.2			49.5	9.7	86	nnw.			3		5			0.173	4.4	½ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.15	765.7	30.18	766.5	77.0	25.0	100	nw.			2		2		nne.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.94	760.5	30.15	765.8	71.2	21.8	62	n.			1		2	n.		0	0	slightly cl'dy	M. Moutiiot, Director.
Rodez, Normal School	27.98	710.7	29.97	763.8	66.9	19.4	75	nw.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.14	765.5	30.19	766.7	70.5	21.4	70	w.			2		5	sw.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.95	760.6	30.11	764.8	72.5	22.5	49	n.			1		7	nne.	n.	0	0		M. Renou, Director.
Toulouse, Observatory	29.45	748.0	30.18	766.5	74.8	23.8	70	nnw.			2		0			0	0	clear	M. Baillaud, Director.
Tours	29.97	761.2	30.15	765.7	70.9	21.6	49	w.			1	1	1	n.	n.	0	0	clear	M. de Tastes.
Versailles, Observatory	29.63	752.6	30.12	765.1	70.2	21.2	54	n.			2					0	0		Dr. A. Berigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.84	758.0	30.13	765.4	68.9	20.5	55	nw.			2		9		nnw.	0	0		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.52	724.5	29.97	761.2	54.7	12.6	91	nw.			4		10	nw.		0.689	17.5		Prof. Jnedt.
Bamberg	29.06	738.0	29.91	759.6	55.4	13.0	90	nw.			2		10 n		w.	0.669	17.0	raining	Prof. Dr. Hoh.
Berlin	29.68	753.9	29.85	758.3	66.2	19.0	79	s.			2		10			0.059	1.5		Prof. Dr. Arndt.
Breslau	29.34	745.1	29.86	758.5	69.1	20.6	59	ssw.			2		5			0.071	1.8		Royal University Obs'y.
Carlsruhe	29.58	751.2	30.01	762.2	60.4	15.8	90	wsw.			3		10	nw.		0.598	15.2		Albert Senz.
Cassel	29.13	740.0	29.85	758.1	56.8	13.8	90	nw.			8		10	n.		1.043	26.5		Dr. H. Mohl.
Frankfort-on-the-Main	29.60	751.8	29.96	761.0	58.1	14.5	93	wsw.			1		10			0.559	14.2		Physical Society.
Friedrichshafen	28.61	726.7	30.03	762.7	60.8	16.0	78	w.			3		10	w.		0.209	5.3	showery	Wilhelm, Chief Tel.
Hamburg	29.66	753.4	29.76	755.8	61.9	16.6	94	n.			6		10			0.150	3.8	raining	E. Preller.
Kiel	29.75	755.7	29.77	756.1	63.6	17.2	94	nnw.			5		10			0.509	12.7		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.37	746.6	29.82	757.3	58.3	14.6	96	sw			2		10			1.165	29.6	light rain	H. Leppig, Asst.
Magdeburg	29.56	750.7	29.74	755.4	59.4	15.2	90	wsw.			3		10 ks		w.	1.244	31.6		Dr. Assmann.
Memel	29.87	758.6	29.91	759.8	80.8	27.1	58	s.			2	10 cs	0						Isseimann
Munich	28.19	715.9	30.05	763.2	86.7	13.7	69	w.			1		10	w.		1.051	26.7		Dr. C. Lang.
Neufahrwasser	29.82	757.5	29.84	757.9	81.3	27.4	50	s.			3		5			0.362	9.2		A. Lothes.
Neustadt, Palatinate	29.45	748.0	29.98	761.4	58.3	14.6	91	w.			4		10	w.		0.307	7.8	raining	Dickmether.
Stuttgart	29.04	737.7	29.93	760.2	59.0	15.0	84	w.			1		10			0.346	8.8		Prof. Dr. Schoder.
Wustrow	29.73	755.1	29.75	755.7	71.2	21.8	83	ne.			2	0	8 s			1.083	27.5		Profs. Brandes & Reimer
GREEK.																			
Athens	29.53	750.0			90.5	32.5		sw.			2.0		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.56	750.8	29.61	752.1	84.9	29.4	76	wsw.	32.0	14.3			0			0	0	blue sky	
Deesa	29.08	738.6	29.54	750.3	89.3	31.8	56	wsw.	5.9	2.6			6	ese.	wnw.	0.03	0.8	d. clouds	
Bombay	29.62	752.3	29.66	753.3	82.7	28.2	78	w.	11.6	4.9			7	w.	wnw.	0.03	0.8	d. clouds	
Poona, Yarrowda	27.81	706.3	29.67	753.6	73.0	22.8	84	wsw.	14.0	6.3			10		w.	0	0	overcast	
Trichinopoly	29.42	747.2	29.70	754.3	88.3	31.3	43	w.	6.0	2.7			10			0	0	overcast	
Bellary	28.15	715.0	29.58	751.4	88.5	31.4	46	w.	17.2	7.7			7	sw.		0	0	d. clouds	
Belgaum	27.15	689.7	29.69	754.2	73.0	22.8	79	w.	14.0	6.3			7	e.	sw.	0.03	0.8	showery	
Lahore	28.80	731.5	29.52	749.9	89.3	31.8	66	calm	0.7	0.3			10			0	0	overcast	
Roorkee	28.66	727.9	29.54	750.2	86.2	30.1	81	calm	2.2	1.0			8			0.45	11.4		
Agra	28.91	735.1	29.49	749.1	87.2	30.7	76	e.	3.2	1.4			4		e.	0.18	4.6	d. clouds	
Nagpur	28.49	723.6	29.52	749.8	80.7	27.1	82	nnw.	4.4	2.0			10		w.	0.15	3.8	overcast	
Jubbulpore	28.19	716.0	29.53	750.0	79.8	26.6	88	nw.	3.7	1.6			10			1.50	38.1	overcast	
Lucknow	29.16	740.6	29.52	749.8	91.1	32.8	49	calm	1.1	0.5			7	ssw.		0.30	7.6	d. clouds	
Allahabad	29.16	740.6	29.46	748.2	91.4	33.0	69	ese.	2.3	1.0			5		e.	0	0	d. clouds	
Patna	29.38	746.2	29.59	750.8	88.2	31.2	72	e.	5.3	2.4			8	e.	e.	0	0	d. clouds	
Hazaribagh	27.55	699.9	29.53	750.0	81.8	27.7	72	ese.	9.5	4.2			10		e.	0	0		
Cuttack	29.44	747.6	29.52	749.7	85.5	29.7	77	ese.	1.0	0.8			5			0.62	15.7	d. clouds	
Calcutta, Alipore	29.53	749.9	29.55	750.5	83.7	28.7	87	ssw.	2.0	0.9			10		se.	0.22	5.6	overcast	
Dhubri	29.47	748.5	29.58	751.4	83.5	28.6	83	ne.	3.1	1.4			1			0	0	d. clouds	
Chittagong	29.59	749.4	29.59	751.7	84.7	29.3	84	sw.	2.7	1.2			7			0	0	d. clouds	
Sibsagar	29.28	743.8	29.61	752.1	87.0	30.6	72	ne.	2.5	1.1			6	sw.	sw.	2.00	50.8	d. clouds	
Jeypore	28.11	713.9	29.53	750.1	86.9	27.2	87	nw.	3.7	1.6			10		nw.	0.01	0.3	overcast	
Zanzibar, Africa	30.05	763.3			81.2	27.3	54	s.	5.6	2.5			6		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.51	749.5	29.90	759.4	79.0	26.1	49	e.	3.1	1.4			5			0.067	1.7		Prof. Giovanni Clodig.
Milan	29.38	746.3	29.87	758.8	80.6	27.0	35	ssw.	4.3	1.9			9	ene.		0	0		Prof. Schiaparelli.
Padua	29.77	756.2	29.88	758.9	75.4	24.1	51	ne.	10.5	4.7			10	wsw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.97	735.9	29.84	757.9	77.0	25.0	47	ne.	3.8	1.7			8	n.		0	0		Prof. P. F. Denza.
Genoa	29.74	755.3	29.92	760.0	75.2	24.0	58	se.	11.2	5.0			4	se.		0	0		Prof. G. M. Garibaldi.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Mondovi	28.02	711.6	29.85	758.2	73.2	22.9	41	wnw.			4		1			0	0		Prof. D. C. Bruno.
Pesaro	29.83	757.7	29.88	758.9	81.0	27.2	46	s.	9.4	4.2			0			0	0		Prof. Luigi Guidi
Florence	29.66	753.4	29.90	759.4	77.9	25.5	57	se.			2		10	sw.		0	0		Prof. Costantino Pitter
Leghorn	29.78	756.4	29.86	758.5	78.6	25.9	57	w.	3.1	1.4			3			0	0		Prof. P. Monte.
Rome	29.80	757.0	29.97	761.3	82.0	27.8	41	sw.					6	w.		0	0		Prof. P. S. Ferrari.
Lecce	29.71	754.7	29.95	760.8	84.4	29.1	34	sse.	10.5	4.7			0			0	0		Prof. C. de Giorgi.
Cosenza	29.11	739.4	29.96	760.9	84.2	29.0	72	wnw.	3.8	1.7			0			0	0		Prof. D. Conti.
Cagliari	29.75	755.7	29.94	760.4	84.2	29.0	23	nw.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.78	756.5	30.02	762.6	78.6	25.9	45	ne.	8.1	3.6			0			0	0		Prof. G. Cacciatore.
Syracuse	29.93	760.1	30.00	762.0	83.8	28.8	45	ne.	3.8	1.7			1	wnw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.48	748.8	29.99	761.7	79.3	26.3	64	ssw.	2.5	1.1			1	sw.		0	0		Prof. T. Brioschi.
Stelvio	22.19	563.5			45.7	7.6	70	e.			2		10			0.109	4.3	covered	Prof. P. F. Denza.
Valdobbia	22.22	564.3			44.4	6.9	85	n.			2		10			0	0	covered	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.80	756.9	29.81	757.2	69.5	20.8	97	ese.	1.8	0.8			1			0	0	clear	
Hiroshima, I. M. Obs'y					82.0	27.8	71	sse.	0.8	0.4		0	8 ck		s.	0	0	cloudy	I. Sogawa.
Kanazawa																			S. Endo.
Kioto	29.72	754.9	29.88	758.9	81.3	27.4	68	se.	3.0	1.3		0	0			inap.	inap.	clear	M. Tojima.
Kochi																			K. Kusunose.
Nagasaki, I. M. Obs'y	29.51	749.5	29.70	754.4	82.3	27.9	65	ne.	4.2	1.9		7 ck	3 s			0.020	0.5	cloudy	S. Takebayashi.
Nemuro	29.79	756.6	29.85	758.2	64.8	18.2	70	calm	0	0		10	0			0	0	cloudy	
Niigata	29.84	757.9	29.88	758.9	79.2	26.2	88	ese.	6.6	2.9		0	7 s			0	0	light fog	M. Morita.
Nohiru	29.83	757.7	29.85	758.1	79.6	26.4	90	s.	4.2	1.9		1 ck	0			0	0	clear	H. Midzushina.
Osaka	29.86	758.4	29.87	758.7	81.0	27.2	85	w.	1.9	0.8		0	0			0.047	1.2	clear	
Supporo					72.3	22.4	88	se.	4.2	1.9			5			0	0	fair	
Tokei Obs'y, Yeddo	29.81	757.2	29.88	758.9	78.5	25.8	76	ssw.	12.6	5.6		0	0			0	0	clear	The Staff.
Wakayama	29.84	757.9	29.88	758.9	80.7	27.1	73	calm	0	0		0	0			0.028	0.7	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	30.04	763.0	30.23	767.8	72.0	22.2	69	ese.	24.5	11.0		1 ck	8 k;n		ese.	0.19	4.8	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	602.9	29.96	760.9	59.0	15.0	92	calm	0	0		0	2 k		ne.	0.063	1.6		Prof. Vicente Fernandez.
Leon	24.36	618.7	30.04	763.0	58.1	14.5	93	nne.			1	8 c	0	se.		0.677	17.2	cloudy	Prof. M. Leal.
Mazatlan	29.68?	753.4?	29.94	760.3	78.5	25.8	72	e.	1.6	0.8		3 ck	0	e.		0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	588.0	30.17	766.3	56.7	13.7	83	calm	0	0		0	5 k		ne.	0.186	4.7	½ cloudy	The Staff.
Morelia	24.30	617.2	30.36	771.0	59.2	15.1	74	o.			1	1	0	s.		0	0	clear	M. Tena, M. D.
Orizaba	20.08	662.5	30.04	762.9	64.4	18.0	84	calm	0	0		0	0			0	0	fine	Prof. M. M. Chazaro.
Pabellon, Aguascalientes	24.00	609.6	29.98	761.6	61.5	16.4	87	ssw.			1	0	9 k		ssw.	0	0	cloudy	M. V. de Leon, M. E
Puebla, Catholic Institute	23.48	596.0	30.27	768.9	51.6	10.8	88	ne.	1.8	0.8		0	0			c.107	2.7	clear	Prof. P. Spina.
San Luis Potosi	24.26	616.5	30.21	767.4	62.6	17.0	58	e.				3	4	w.	e.	0	0	cloudy	G. Barroeta, M. D.
Zacatecas	22.707	574.9?	30.24?	768.5?	55.2	12.9	70	ne.	7.5	3.3		4 c	0	s.		0	0	½ cloudy	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.08	763.9	30.08	763.9	65.1	18.4		w.			3					0	0		
Groningen	29.89	759.3	29.95	760.7	65.7	18.7		n.			2					0	0		
Helder	30.00	762.1	30.00	762.1	61.5	16.4		nnw.			4					0	0		
Hellevoetsluis	30.04	762.9	30.04	762.9	66.0	18.9	68	wnw.			2					0	0		
Utrecht	29.97	761.1	30.01	762.3	70.0	21.1	63	nw.			2		8			0	0	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.91	759.7	29.97	761.3	64.8	18.2	65	s.	11	5			5			0	0		
Brono	29.90	759.4	29.94	760.4	66.2	19.0	42	calm	0	0			0			0	0		
Christiania	29.77	756.2	29.91	759.8	66.7	19.3	64	ese.	4	2			10					raining	
Gjesvær	29.92	759.9	29.94	760.5	62.6	17.0		calm			0		0						
Lodingen	29.83	757.7	29.88	758.9	69.1	20.6	55	calm			0		1			0	0		
PORTUGUESE.																			
Angra, Azores					71.2	21.8	78	se.	9.8	4.4			5			0	0		Dr. J. A. Sampaio
Campo Major	28.93	734.9	29.87	758.6	90.0	32.2	47	ene.	3.1	1.4			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.95	760.8	30.04	763.0	74.8	23.8	59	sw.	3.8	1.7			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.60	751.7	29.95	760.6	83.7	28.7	25	ne.	13.6	6.1			0			0	0		The Staff.
Ponta Delgada, Azores	30.27	768.8	30.34	770.6	73.8	23.2	70	se.	7.4	3.3			3			0	0		
Saint Paul de Loando	29.86	758.5	30.07	763.7	67.8	19.9	81	w.	1.3	0.6			1	wsw.		0	0		
Serra da Estrella	25.37	644.5	29.96	761.0	63.7	17.6	46	se.	11.2	5.0			0			0	0		
RUSSIAN.																			
Akmolinski	28.87	733.4	29.90	759.5	75.9	24.4	27	wsw.	7	3		0	0			0	0		Major K. Lasarew.
Archangel	30.23	767.8	30.25	768.3	68.2	20.1	59	w.	13	6		1 cs	0			0	0		Capt. Sseliwerstow.
Astrakhan	30.12	765.0	30.04	762.9	90.7	32.6	47	sse.	2	1			0 s			0	0		Capt. Wisganow.
Barnaul	29.51	749.6	29.99	761.7	70.2	21.2	42	calm	0	0			1			0	0		Meteorological Obs'y.
Dorpat	29.87	758.8	30.10	764.6	82.0	27.8	58	ese.	11	5		1 cs	0			0	0		Observatory.
Ekaterinburg	29.07	738.3	30.01	762.2	64.0	18.1	41	nnw.	11	5		ck	3 k			0	0		Meteorological Obs'y.
Irkutsk	28.43	722.0	30.04	763.0	58.8	14.9	90	calm	0	0		cs	8 s;n			0.075	1.9		
Kasan	29.99	760.9	30.21	767.4	76.1	24.5	29	nne.	9	4		0	0			0	0		Observatory.
Kertch	29.81	757.1	29.83	757.6	87.1	30.6	77	e.	4	2		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.22	742.3	29.81	757.1	91.6	33.1	16	ese.	13	6		ck	8 ks			0	0		Observatory.
Lugan	29.78	756.4	29.97	761.2	95.0	35.0	11	e.	34	15			3			0	0		Meteorological Obs'y.
Moscow	29.09	754.2	30.14	765.5	81.9	27.7	36	e.	13	6			0						Meteorological Obs'y.
Nikolaiev	29.76	756.0	29.84	757.8	96.8	36.0	44	s.	7	3		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.55	750.6	29.69	754.2	80.1	26.7	63	nw.	4	2		0	8 n			0.035	0.9		Physical Observatory.
St. Petersburg	30.22	767.7	30.24	768.1	77.5	25.3	37	se.	13	6		1 c;cs	0			0	0		Central Physical Obs'y.
Semipalatinsk	29.30	744.2	29.93	760.1	75.9	24.4	23	n.	13	6			1			0	0		Major Lasarew
Tashkend, Laboratory	28.30	718.9	29.78	756.5	81.1	27.3	44	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.57	725.7	29.89	759.3	94.1	34.5	22	se.	2	1		0	0			0	0		Physical Observatory.
Vladivostock	29.54	750.2	29.60	751.9	69.4	20.8	95	se.	13	6			10 n						
Warsaw	29.46	748.2	29.86	758.4	75.7	24.3	64	se.	9	4			10 k;ks						Astronomical Obs'y.
Wilna	29.54	750.3	29.93	760.1	89.6	32.0	36	se.	9	4			1			0	0	light clouds	Berg, Assistant.
Yeniseisk	29.71	754.5	29.98	761.6	64.2	17.9	96	w.	7	3			10			0	0		M. C. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	29.93	760.2	30.03	762.8	77.7	25.4	65	se.	4.0	1.8			1 k						Antonio Rave, Director.
Bilbao, Met. Obs'y	30.17	766.2	30.22	767.7	77.7	25.4	50	n.	2.9	1.3		2	3	sw.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.22	691.4	30.12	765.1	66.6	19.2	46	e.	10.5	4.7			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.84	707.1	29.95	760.8	82.4	28.0	52	ne.	8.1	3.6		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director
Santiago, Met. Obs'y	29.19	741.4	30.06	763.4	73.2	22.9	52	nne.	18.6	8.3			1			0	0	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.																			Benito Vines, S. J.
Manilla, Philippine Islands	29.69	754.0	29.74	755.4	81.3	27.4	83	sw.	33.0	14.8			9 n		sw.	0.984	25.0	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.82	757.4	29.91	759.8	83.8	28.8	41	e.	31.6	14.1		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.03	762.8	30.16	766.1	79.9	26.6	95	calm	0	0		5 k	3 kn	s.	s.	1.417	36.0	raining	Manuel Maese.
Tuguegarao, Philippine Id's	29.45	748.0	29.58	751.3	78.0	25.6	91	sse.	11.9	5.3		3 cs	7 kn		s.	0.00	1.5	raining	José L. Yrastorza.
SWEDISH.																			
Haparanda	30.12	765.1	30.16	766.1	65.1	18.4	79	s.			2		8			0	0		
Umea	30.08	764.0	30.13	765.3	68.4	20.2	53	sw.			2		9			0	0		
Hernosand	30.12	765.1	30.17	766.4	64.0	17.8	72	ese.			2		8			0	0		
Stockholm	29.77	759.2	29.95	760.7	71.8	22.1	65	ese.			0		0			0	0		
Visby	29.82	757.3	29.87	758.8	78.8	26.0	66	ese.			4		5			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Sub-series.																			
Upsala	29.84	758.0	29.93	760.2	76.1	24.5	63	ese.	6.7	3.0	.....	.....	6	s.	.....	0.012	0.3	.....	S. G. Fineman.
SWISS.																			
Geneva	28.67	728.2	30.07	763.7	64.8	18.2	56	n.	.....	.....	4	.....	.....	.....	.....	0.008	0.2	covered	The Observatory
SCOTTISH.																			
Monach Lt	.....	.....	30.05	763.3	58	14.4	94	w.	.....	.....	4	5	5	w.	.....	0.2	5.	showery	J. Youngclause.
North Unst	.....	.....	29.91	759.7	.....	.....	.....	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	.....	
TURKISH.																			
Constantinople	.....	.....	29.91	759.8	83.5	28.6	62	ne.	12	5.5	.....	.....	8	.....	ne.	0	0	.....	The Observatory.
Valona	.....	.....	30.08	764.1	80.2	26.8	.....	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.83	757.6	89.6	32.0	59	wsw.	.....	.....	2	0	1 ks	.....	sw.	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.04	763.0	30.12	765.0	72	22.2	62	n.	6	2.5	.....	0	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.58	751.3	30.22	767.6	61	16.1	84	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.07	636.8	29.81	757.2	54	12.2	72	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. C. Barnes.
Assiniboine, Ft., Montana	27.09	688.1	29.82	757.4	54	12.2	57	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.95	735.6	30.11	764.8	75.0	23.9	85	s.	5	2.2	.....	1 k	0	.....	.....	0	0	clear	H. Hall.
Atlantic City, New Jersey	30.03	762.7	30.04	763.0	72	22.2	82	ne.	5	2.2	.....	4 ck	2 s	calm	calm	0.02	0.5	fair	Jas. M. Watson.
Augusta, Georgia	29.96	761.0	30.15	765.8	77.0	25.0	85	calm	0	0	.....	7 ck	0	sw.	.....	lmp.	lmp.	fair	John Healy.
Baltimore, Maryland	30.06	763.5	30.10	764.5	76	24.4	64	e.	3	1.3	.....	6 cs	0	nw.	.....	1.51	38.4	fair	Robert Seyboth.
Barnegat, New Jersey	30.02	762.5	30.04	763.0	71.5	21.9	83	n.	12	5.4	.....	3 cs	0	.....	.....	1.15	29.2	clear	G. A. Hill.
Bennett, Fort, Dakota	28.37	720.6	29.81	757.2	65	18.3	93	se.	12	5.4	.....	.....	10 s	.....	se.	0	0	threatening	A. Pritchard.
Benton, Fort, Montana	27.12	688.8	29.83	757.7	54	12.2	64	calm	0	0	.....	0	0	.....	.....	0	0	clear	G. W. Davis.
Behring Island, Behring Sea	29.65	753.1	29.67	753.6	48.2	9.0	.....	n.	16	7.2	.....	.....	fg.	.....	.....	0.04	1.0	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.22	716.8	29.94	760.5	63	17.2	93	s.	3	1.3	.....	.....	10 s	.....	.....	0.03	0.8	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.02	762.5	30.05	763.3	68.0	20.0	78	n.	19	8.5	.....	0	0	.....	.....	0	0	clear	J. T. Elker.
Boise City, Idaho	26.96	684.8	29.68	753.9	68	20.0	49	sw.	2	0.9	.....	4 k	0	sw.	.....	0	0	fair	B. E. Light.
Boston, Massachusetts	29.91	759.7	30.06	763.5	69.0	20.6	61	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	29.88	758.9	29.92	760.0	80.0	26.7	88	se.	5	2.2	.....	0	2 s	.....	se.	0	0	clear	M. McCarty.
Buffalo, New York	29.43	747.5	30.16	766.1	66	18.9	70	ne.	1	0.4	.....	0	8k.	.....	.....	0	0	clear	Wm. Finn.
Buford, Fort, Dakota	28.02	711.7	29.99	761.0	58	14.4	77	e.	8	3.6	.....	0	0	.....	.....	0	0	clear	A. H. Bell.
Burlington, Vermont	29.81	757.2	30.09	764.3	67.3	19.6	72	ne.	3	1.3	.....	6 ck	0	n.	.....	0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.66	753.4	30.05	763.3	73.8	23.2	92	s.	6	2.7	.....	.....	10 s	.....	s.	0.02	0.5	threatening	W. H. Ray.
Campo, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. H. Clendenon
Camp Thomas, Arizona	27.22	691.4	29.81	757.2	75	23.9	54	s.	.....	.....	1	0	1 k	.....	.....	0	0	clear	J. T. Fitzgerald.
Cape Henry, Virginia	30.03	762.7	30.05	763.3	75	23.9	85	sw.	8	3.6	.....	4 ck	3 s	sw.	.....	1.57	39.9	fair	A. K. Alderson.
Cape May, New Jersey	30.01	762.2	30.04	763.0	74.0	23.3	82	ne.	5	2.2	.....	7 cs	0	w.	.....	1.42	36.1	fair	W. E. Smith.
Cape Mendocino	29.41	747.0	.....	.....	.....	.....	.....	n.	17	7.6	.....	.....	10 ks	.....	n.	0	0	cloudy	J. R. Williams.
Cedar Keys, Florida	30.07	763.8	30.09	764.3	83	28.3	74	e.	5	2.2	.....	0	0	.....	.....	0.01	0.3	clear	F. W. Mixer.
Champaign, Illinois	29.25	742.9	30.04	763.0	65.5	18.6	74	e.	7	3.1	.....	.....	10 s	.....	se.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.06	763.5	30.11	764.8	84	28.9	80	sw.	1	0.4	.....	9 c	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.25	742.9	30.08	764.0	78.0	25.6	69	sw.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.31	744.5	30.11	764.8	71.0	21.7	94	ne.	3	1.3	.....	4 cs	fg.	.....	.....	0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.14	613.1	29.83	757.7	52.2	11.2	72	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	E. McGovern.
Chincoteague, Virginia	30.01	762.2	30.03	762.7	76	24.4	97	n.	4	1.8	.....	9 c	0	.....	.....	0	0	cloudy	J. Mitchell.
Cincinnati, Ohio	29.47	748.5	30.11	764.8	71.0	21.7	71	e.	4	1.8	.....	0	8 ks	.....	w.	0.50	12.7	cloudy	V. P. Temple.
Cleveland, Ohio	29.44	747.8	30.16	766.1	62.3	16.8	82	se.	4	1.8	.....	5 ck	0	e.	.....	0	0	fair	J. F. Harrold.
Coleman City, Texas	28.19	716.0	29.95	760.7	70	21.1	97	sw.	6	2.7	.....	1 c	0	.....	.....	0	0	clear	J. B. Newlin.
Columbus, Ohio	29.30	744.2	30.13	765.3	62	16.7	84	ne.	2	0.9	.....	.....	10 s	.....	sw.	0.25	6.3	thund'rst'm	L. Dorman.
Concho, Texas	28.14	714.7	30.02	762.5	69	20.6	90	e.	14	6.3	.....	6 k	0	sw.	.....	0	0	fair	D. Cuthbertson.
Custer, Fort, Montana	26.75	679.4	29.77	756.1	57	13.9	86	se.	4	1.8	.....	0	0	.....	.....	1.49	37.8	heavy rain	W. W. McConihe.
Davenport, Iowa	29.41	747.0	30.05	763.3	63	17.2	93	e.	8	3.6	.....	.....	10 n	.....	calm	0	0	clear	V. Verge.
Davis, Fort, Texas	25.22	640.6	29.86	758.4	63	17.2	75	n.	4	1.8	.....	0	0	.....	.....	0.24	6.1	light rain	R. R. Martin.
Dayton, Washington T'y	28.16	715.3	29.86	758.4	53.2	11.8	74	se.	1	0.4	.....	0	0	.....	.....	0.40	10.2	clear	J. Williams.
Deadwood, Dakota	25.43	645.9	29.85	758.2	52.5	11.4	86	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Decatur, Texas	.....	.....	.....	.....	79	26.1	97	sw.	8	3.6	.....	.....	10 n	.....	.....	4.67	118.6	heavy rain	G. W. Scott.
Delaware Breakwater, Del.	30.02	762.5	30.04	763.0	69	20.6	100	n.	8	3.6	.....	3 ck	3 s; fg	w.	.....	2.04	51.8	fair	D. J. Carr.
Denison, Texas	29.15	740.4	29.93	760.2	73.0	22.8	97	calm	0	0	.....	.....	10 s	.....	.....	0.20	5.1	cloudy	A. Schneider.
Denver, Colorado	24.81	630.2	29.82	757.4	56.5	13.6	63	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. McGlone.
Des Moines, Iowa	29.12	739.6	30.00	762.0	62	16.7	87	se.	4	1.8	.....	.....	10 n	.....	se.	1.57	39.9	light rain	F. M. Neal.
Detroit, Michigan	29.47	748.5	30.16	766.1	62.3	16.8	84	n.	9	4.0	.....	2 c	0	.....	.....	0	0	clear	F. W. Conrad.
Dodge City, Kansas	27.44	697.0	29.94	760.5	62.0	16.7	100	n.	10	4.5	.....	.....	fg.	.....	.....	lmp.	lmp.	dense fog	C. F. R. Wappenhans.
Dubuque, Iowa	29.39	746.5	30.08	764.0	58.3	14.6	93	e.	2	0.9	.....	.....	10 n	.....	.....	0.37	9.4	heavy rain	W. M. Mattingly.
Duluth, Minnesota	29.46	748.3	30.18	766.6	57	13.9	64	ne.	9	4.0	.....	7 cs	0	.....	.....	0	0	fair	J. Harvey Smith.
Eagle Pass, Texas	29.14	740.1	29.93	760.2	82.2	27.9	72	se.	8	3.6	.....	.....	10 s	.....	se.	0	0	cloudy	N. B. Conger.
Eagle Rock, Idaho	25.29	642.4	29.84	757.9	48	8.9	54	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. Belford.
Eastport, Maine	29.95	760.7	30.01	762.2	60.0	15.6	78	n.	11	4.9	.....	0	5 s	.....	n.	0.27	6.9	fair	J. M. Clifford.
Elliott, Fort, Texas	27.25	692.1	29.89	759.2	64	17.8	78	se.	12	5.4	.....	.....	10 s	.....	se.	0	0	cloudy	D. C. Murphy.
El Paso, Texas	26.31	668.3	29.91	759.7	70	21.1	66	nw.	2	0.9	.....	0	0	.....	.....	0.25	6.3	clear	W. J. Gundall.
Erie, Pennsylvania	29.45	748.0	30.16	766.1	69	20.6	66	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. F. Marshall.
Escanaba, Michigan	29.59	751.6	30.23	767.8	59	15.0	70	n.	4	1.8	.....	1 c	0	.....	.....	0	0	clear	Peter Wood.
Fredericksburg, Texas	28.24	717.3	29.94	760.5	73	22.8	90	s.	2	0.9	.....	8 k	0	sw.	.....	0.42	10.7	cloudy	C. Dill.
Galveston, Texas	29.94	760.5	29.99	761.7	82	27.8	82	sw.	11	4.9	.....	7 cs	2 k	.....	sw.	0	0	cloudy	H. S. Miles.
Grand Haven, Michigan	29.52	749.8	30.17	766.3	62.5	16.9	64	ne.	4	1.8	.....	10 cs	0	.....	.....	0	0	cloudy	E. O'C. MacInerney.
Grant, Fort, Arizona	25.31	642.9	29.88	758.9	67.4	19.7	59	e.	4	1.8	.....	1 cs	0	.....	.....	0	0	clear	W. A. Reid.
Hatteras, North Carolina	30.07	763.8	30.09	764.3	79.0	26.1	88	sw.	12	5.4	.....	3 ck	hz.	se.	.....	0	0	clear	Robert C. Lord.
Helena, Montana	25.79	655.1	29.85	758.2	57	13.9	60	calm	0	0	.....	0	0	.....	.....	0	0	clear	R. M. Crawford.
Henrietta, Texas	28.99	736.3	29.97	761.2	76.0	24.4	82	se.	9	4.0	.....	.....	10 s	.....	.....	0.87	22.1	cloudy	S. Whenton.
Huron, Dakota	28.68	728.5	30.00	762.0	60.2	15.7	96	se.	4	1.8	.....	.....	10 ks	.....	se.	2.06	52.3	cloudy	J. W. Byram.
Indianapolis, Indiana	29.30	744.2	30.07	763.8	67.5	19.7	69	e.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	S. W. Glenn.
Indianola, Texas	29.95	760.7	29.98	761.5	80.2	26.8	82	s.	14	6.3	.....	3 cs	3 k	nw.	s.	0	0	fair	O. Schutze
Jacksboro, Texas	28.83	732.3	29.95	760.7	76	21.1	90	n.	2	0.9	.....	.....	10 s	.....	.....	1.56	39.6	cloudy	I. A. Reed.
Jacksonville, Florida	30.08	764.0	30.12	765.0	80	26.7	82	calm	0	0	.....	3 cs	0	.....	.....	0.05	1.3	clear	J. P. Sherry.
Keogh, Fort, Montana	27.44	697.0	29.85	758.2	65	18.3	58	se.	18	8.0	.....	0	0	.....	.....	0	0	clear	J. W. Smith.
Keokuk, Iowa	29.34	745.2	29.97	761.2	62.0	16.7	96	e.	8	3.6	.....	.....	10 n	.....	e.	0.43	10.9	light rain	W. B. Stockman.
Key West, Florida	30.01	762.2	30.03	762.7	79.0	26.1	88	e.	6	2.7	.....	.....	10 s	.....	e.	0.21	5.3	cloudy	F. Z. Gosewisch.
Kittyhawk, North Carolina	30.06	763.5	30.08	764.0	80.0	26.7	79	w.	11	4.9	.....	2 cs	0	s.	.....	lmp.	lmp.	clear	R. H. Paxton.
Knoxville, Tennessee	29.11	739.4	30.11	764.8	69.4	20.8	98	calm	0	0	.....	.....	10s; fg	.....	.....	0.03	0.8	cloudy	E. A. Beals.
La Crosse, Wisconsin	29.35	745.5	30.10	764.5	61	16.1	87	n.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	J. A. Cody.
La Mesilla, New Mexico	26.16	664.5	29.90	759.4	66.0	18.9	58	calm	0	0	.....	5 c	4 s	sw.	.....	lmp.	lmp.	cloudy	S. C. Emery.
Leavenworth, Kansas	29.07	738.4	29.93	760.2	73	22.8	84	calm	0	0	.....	.....	10 s	.....	s.	0.31	7.9	cloudy	N. D. Lane.
Lewiston, Idaho	29.94	737.6	29.85	758.2	63.5	17.5	52	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Little Rock, Arkansas	29.68	753.9	29.99	761.7	75	23.9	100	s.	2	0.9	.....	.....	10 n	.....	.....	0.70	17.8	heavy rain	W. Bell.
Los Angeles, California	29.64	752.8	30.03	762.7	59.7	15.4	75	se.	3	1.3	.....	.....	10 s	.....	.....	0	0	cloudy	W. U. Simons.
Louisville, Kentucky	29.59	749.3	30.05	763.3	72	22.2	90	ne.	1	0.4	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	E. F. Kubel.
Lynchburg, Virginia	29.39	746.5	30.06	763.5	71.5	23.6	85	sw.	1	0.4	.....	4ck; cs	4 s	.....	.....	0.17	4.3	cloudy	H. C. Smyth.
Macon, Fort, North Carolina	30.08	764.0	30.09	764.3	80	26.7	88	sw.	16	7.2	.....	3 k	0	s.	.....	0	0	clear	W. R. Bushby.
Madison, Wisconsin	29.14	740.1	30.12	765.0	61	16.1	84	e.	8	3.6	.....	8 cs	0	w.	.....	0	0	cloudy	F. P. Chaffee.
Maginnis, Fort, Montana	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	.....	C. A. Shaw.
McKavett, Fort, Texas	27.80	706.1	30.00	762.0	68	20.0	90	s.	7	3.1	.....	.....	10 n	.....	.....	2.92	74.2	heavy rain	H. W. Dodge.
Marquette, Michigan	29.54	750.3	30.25	768.3	60	15.6	65	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Memphis, Tennessee	29.72	754.9	30.05	763.3	75	23.9	90	se.	4	1.8	.....	.....	10 s	.....	se.	lmp.	lmp.	cloudy	J. Gilligan.
Milwaukee, Wisconsin	29.40	746.7	30.14	765.5	64	17.8	84	e.	12	5.4	.....	9 c	0	w.	.....	0	0	cloudy	D. T. Flannery.
																			W. Line.

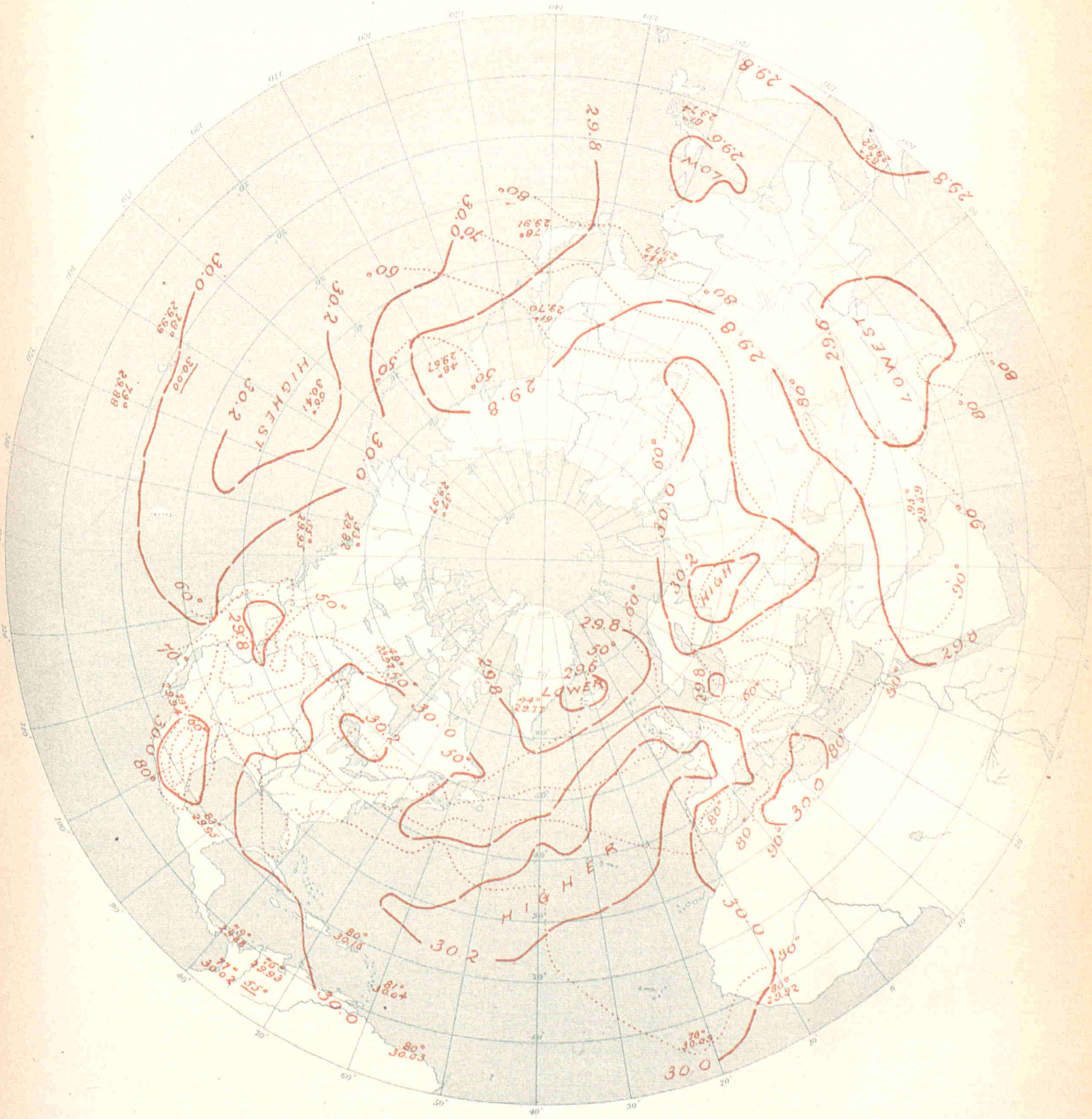
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.68	677.7	29.87	758.7	46	7.8	71	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.05	763.3	30.09	764.3	78.5	25.8	88	calm	0	0	.....	3 ck	2 ks	sw.	.....	0.07	1.8	fair	C. A. Read.
Montgomery, Alabama	29.88	758.9	30.10	764.5	73.5	23.1	89	se.	4	1.8	.....	4 ck	0	w.	.....	0.03	0.8	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.08	738.6	30.04	763.0	63	17.2	93	s.	10	4.5	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.15	740.4	30.15	765.8	69.5	20.8	77	ne.	1	0.4	.....	2 ck	3 s	w.	.....	0.02	0.5	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.96	608.6	30.03	762.7	41.0	5.0	86	n.	20	8.9	.....	0	1 s	.....	n.	0	0	clear	J. G. Lipsley.
Nashville, Tennessee	29.54	750.3	30.06	763.5	73.0	22.8	90	se.	2	0.9	.....	.....	10 ks	.....	sw.	0.06	1.5	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.95	760.7	30.06	763.5	67.5	19.7	65	ne.	10	4.5	.....	1 cs	0	.....	.....	0.71	18.0	clear	J. H. Sherman.
New London, Connecticut	30.01	762.2	30.06	763.5	69	20.6	66	n.	5	2.2	.....	0	0	.....	.....	0.32	8.1	clear	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.05	763.3	79.5	26.4	92	se.	4	1.8	.....	4 c	1 ks	.....	se.	0.22	5.6	fair	L. Dunne.
Newport, Rhode Island	30.01	762.2	30.06	763.5	70.4	21.3	70	ne.	8	3.6	.....	0	0	.....	.....	0.21	5.3	clear	W. McGillivray.
New York, New York	29.92	760.0	30.09	764.3	72	22.2	66	n.	9	4.0	.....	1 cs	0	nw.	.....	0.08	2.0	clear	J. B. Merrill.
Norfolk, Virginia	30.02	762.5	30.05	763.3	78	25.6	82	sw.	5	2.2	.....	3 cs	0	.....	.....	1.12	28.4	clear	H. L. Kemp.
North Platte, Nebraska	27.14	689.3	29.94	760.5	64.6	18.1	88	e.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog	E. F. Brady.
Olympia, Washington T'y	29.81	757.2	29.85	758.2	61.5	16.4	90	s.	6	2.7	.....	.....	10 s	.....	s.	0.09	2.3	threatening	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.95	760.7	29.97	761.2	36.5	2.5	95	se.	16	7.2	.....	1 cs	9 s	n.	se.	0	0	cloudy	P. H. Ray.
Omaha, Nebraska	28.84	732.5	29.97	761.2	65.4	18.6	93	n.	5	2.2	.....	.....	10 s	.....	n.	0.72	18.3	cloudy	A. Pollak.
Oswego, New York	29.81	757.2	30.13	765.3	69.0	20.6	66	ne	10	4.5	.....	0	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.46	748.3	30.00	762.0	78.0	25.6	88	sw.	12	5.4	.....	.....	10 ks	.....	sw.	0	0	threatening	L. M. Pindell.
Pensacola, Florida	30.06	763.5	30.09	764.3	77.7	25.4	95	se.	3	1.3	.....	1 cs	1 ks	.....	sw.	0.22	5.6	clear	M. McGauran.
Philadelphia, Pa.	30.00	762.0	30.10	764.5	74	23.3	60	ne.	11	4.9	.....	0	7 ks	.....	n.	inap.	inap.	fair	T. F. Townsend.
Pike's Peak, Colorado	18.05	458.5	29.83	757.7	34	1.1	85	nw.	6	2.7	.....	0	hz.	.....	.....	0.01	0.3	clear	L. M. Dey.
Ploche, Nevada	24.10	612.1	29.83	757.7	59.0	15.0	30	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.34	745.2	30.13	765.3	63.0	17.2	90	nw.	2	0.9	.....	3 k	0	w	.....	0	0	clear	J. H. Bryce.
Poplar River, Montana	27.83	706.9	.....	.....	.....	.....	.....	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.06	763.5	30.07	763.8	79.4	26.3	87	se.	4	1.8	.....	0	0	.....	.....	0.02	0.5	clear	M. Hermann.
Port Huron, Michigan	29.50	749.3	30.16	766.1	67.0	19.4	63	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	30.00	762.0	30.05	763.3	66.5	19.2	66	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.85	758.2	29.92	760.0	64.0	17.8	78	s.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	M. L. Hearne.
Prescott, Arizona	24.85	631.2	29.84	757.9	56	13.3	55	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.00	762.0	30.04	763.0	70.0	21.1	70	n.	11	4.9	.....	3 k	3 s	nw.	.....	0.08	2.0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.05	763.3	30.06	763.5	78.5	25.8	82	e.	9	4.0	.....	0	1 k	.....	calm	0.01	0.3	clear	W. J. Evans.
Red Bluff, California	29.53	750.0	29.80	759.2	63.3	17.4	67	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.71	754.6	29.94	760.5	81	27.2	79	se	3	1.3	.....	0	0	.....	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.50	749.3	30.15	765.8	62	16.7	87	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	E. W. McGann.
Roseburg, Oregon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. J. Nanry.
Sacramento, California	29.80	756.9	29.88	758.9	57.6	14.2	80	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.41	747.0	29.99	761.7	70.2	21.2	100	se.	5	2.2	.....	.....	10s; fg	.....	.....	0.64	16.3	threatening	J. H. Webber.
St. Paul, Minnesota	29.26	743.2	30.10	764.5	62	16.7	84	e.	4	1.8	.....	.....	10 s	.....	e.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.17	740.9	30.01	762.2	60	15.6	93	se.	9	4.0	.....	4 cs	2 s	.....	.....	0.60	15.2	fair	G. Kingsbury.
Salt Lake City, Utah	25.60	650.2	29.78	756.4	67	19.4	37	se.	5	2.2	.....	5 k	0	sw.	.....	c	0	fair	J. Craig.
San Antonio, Texas	29.27	743.4	29.95	760.7	78.5	25.8	88	se.	4	1.8	.....	.....	10 s	.....	se.	0	0	cloudy	T. J. Kenan.
San Diego, California	29.92	760.0	29.99	761.7	62.6	17.0	79	e.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.48	748.8	30.14	765.5	67.9	19.9	78	ne.	3	1.3	.....	0	2 k	.....	e.	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.04	763.0	30.07	763.8	70.0	21.1	76	ne.	17	7.6	.....	1 k	0	ne.	.....	0.05	1.3	clear	B. A. Blundon.
San Francisco, California	29.80	759.2	29.96	761.0	55	12.8	86	sw.	9	4.0	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.38	593.8	29.88	758.9	55	12.8	60	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	30.03	762.7	30.12	765.0	80.5	26.9	88	s.	1	0.4	.....	6c; ck	1 k	.....	.....	0.01	0.3	fair	H. W. Ford.
Shaw, Fort, Montana	26.33	668.8	29.84	757.9	46	7.8	71	w	3	1.3	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.77	756.1	30.00	762.0	75	23.9	90	s.	6	2.7	.....	5 c	3 s	s.	.....	0.07	1.8	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.72	729.5	29.92	760.0	67.7	19.8	91	n.	4	1.8	.....	2 c	1 s	w.	.....	0	0	clear	T. Cleary.
Silver City, New Mexico	24.34	618.2	29.80	756.9	58	14.4	58	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.76	755.9	29.82	757.4	53	11.7	86	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.47	748.5	29.93	760.2	72.0	22.2	97	e.	4	1.8	.....	.....	10 s	.....	.....	0.53	13.5	cloudy	J. B. Campbell.
Smithville, North Carolina	30.09	764.3	30.12	765.0	81	27.2	85	w.	8	3.6	.....	0	4 k	.....	w.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.85	707.4	29.83	757.7	53	11.7	74	nw.	1	0.4	.....	5 c	0	.....	.....	0	0	fair	D. Moore.
Springfield, Illinois	29.35	745.5	30.01	762.2	66.8	19.3	84	se.	5	2.2	.....	.....	10 n	.....	w.	0.23	5.8	light rain	T. B. Jennings.
Springfield, Massachusetts	29.96	751.0	30.00	764.3	70.6	21.4	57	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo.	28.56	725.4	29.95	760.7	71	21.7	62	s.	4	1.8	.....	.....	10 s	.....	.....	1.69	42.9	cloudy	J. B. Marbury.
Starkville, Miss.	29.59	751.6	30.06	763.5	76	24.4	85	s.	5	2.2	.....	.....	fg.	.....	.....	0.20	5.1	dense fog	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.18	715.8	29.96	761.0	59	15.0	93	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.02	686.3	29.96	761.0	63.0	17.2	90	w.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	29.98	761.5	30.01	763.0	68.9	20.5	81	n.	16	7.2	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.45	748.0	30.12	765.0	64	17.8	73	ne.	5	2.2	.....	3 c	0	w.	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.56	700.0	29.88	758.9	77	25.0	62	e.	7	3.1	.....	1 c	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.51	749.5	29.87	758.7	69	20.6	61	sw.	14	6.3	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	28.99	736.3	29.93	760.2	78	25.6	76	se.	3	1.3	.....	.....	10 ks	.....	s.	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	66.1	18.9	51	n.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.80	756.9	30.04	763.0	74	23.3	97	se.	1	0.4	.....	.....	10 s	.....	se.	inap.	inap.	cloudy	H. P. Brisbane.
Visalia, California	29.51	749.5	29.88	758.9	61	16.1	72	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washakie, Fort, Wyoming	24.53	623.1	29.86	758.4	47.0	8.3	58	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	29.99	761.7	30.10	764.5	73.0	22.8	83	ne.	4	1.8	.....	7 ck	0	w.	.....	0	0	fair	B. M. Pursell.
West Las Animas, Colorado	26.11	663.2	29.87	758.7	59.5	15.3	78	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. W. Brandenburg
Williamsport, Pa.	29.56	750.8	30.14	765.5	65	18.3	75	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.06	763.5	30.11	764.8	78	25.6	88	w.	6	2.7	.....	0	0	.....	.....	0.01	0.3	clear	A. T. Sherwood.
Winnemucca, Nevada	25.54	648.7	29.76	755.9	67	19.4	32	s.	6	2.7	.....	0	8 s	.....	sw.	0	0	cloudy	J. Grover.
Yankton, Dakota	28.75	730.2	30.02	762.5	62	16.7	78	e.	13	5.8	.....	.....	10 ks	.....	e.	0.04	1.0	cloudy	J. H. Atfield.
Yuma, Arizona	29.66	753.4	29.80	756.9	80.3	26.8	42	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	55.0	12.8	72	calm	0	0	.....	5 k	2 s	e.	ne.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.03	762.7	30.04	763.0	81	27.2	95	e.	.....	.....	.....	.....	10 ks	.....	.....	0.30	7.6	light rain	J. A. Racker.
Buenaventura, U. S. C.	29.99	761.7	30.02	762.5	77	25.0	90	s.	2	0.9	.....	.....	10 ks	.....	s.	0.05	1.3	cloudy	J. I. Plume.
Kingston, Jamaica, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	76	24.4	.....	calm	.....	.....	0	0	6 k	.....	e.	0	0	.....	S. M. Pike.
Navassa	29.86	758.4	29.94	760.5	81.5	27.5	70	e.	5	2.2	.....	2 k	3 cs	e.	ne.	0.50	12.7	.....	F. M. Everett.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	80	26.7	87	se.	.....	.....	2	5 ck	5 k	e.	e.	0.250	6.3	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.37	746.0	29.93	760.2	76	24.4	89	calm	.....	.....	0	.....	10 ks	.....	calm	0.68	17.3	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	96	ne.	.....	.....	1	0	8 ks	.....	ne.	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Robert Mason.
York Factory, B. A.	29.92	760.0	29.97	761.2	49.0	9.4	93	ne.	9	4.0	.....	2 c	3 s	n.	ne.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, N. 4° 49′ W. 21° 36′	30.09	764.3	78	25.6	70	sse.			2-3		3							d. clouds.
H. M. S. Amethyst, S. 27° 16′, W. 48° 30′	30.14	765.5	54	12.2	79	ssw.			5		4	s.				3	sw.	d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.94	760.5	80	20.7		n.			4		4	n.						d. clouds.
H. M. S. Bacchante, N. 38° 46′, W. 11° 25′	29.99	761.7	68	20.0	84	n.			6		0					6	n.	misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.33	770.4	61	16.1		se.			3-4		4							showery.
H. M. S. Champion, N. 36° 55′, E. 142° 25′			78	25.6	100	sw.			4		6					4	sw.	d. clouds.
H. M. S. Comus, N. 48° 48′, W. 133° 10′	29.85	758.2	55	12.8	93	w.			3-4		6					4	sw.	d. clouds.
H. M. S. Diamond, S. 9° 04′, E. 159° 09′	29.90	759.4	80	26.7	91	calm			0		5							d. clouds.
H. M. S. Dido, N. 14′, 50° W. 61° 30′	30.07	763.8	80	26.7		ne.			1									showery.
H. M. Dock-Yard, Bermuda, W. I.	30.16	766.1	82	27.8	91	wnw.			2		3	nw.						d. clouds.
H. M. S. Druid, N. 44° 21′, W. 40° 23′	30.09	764.3	74.5	23.6	68	sse.			2-3		4					1-2	ssw.	misty.
H. M. S. Dwarf, S. 28° 25′, W. 48° 25′	30.11	764.8	53.5	11.9	86	wsw.			4-6		7					6	w.	squally.
H. M. S. Eclipse, N. 25° 20′, E. 35° 53′	29.77	756.1	89	31.7		wnw.			1-2		3							d. clouds.
H. M. S. Emerald, N. 25° 20′ W. 33° 30′	30.10	764.5	76	24.4	95	nne.			3-4		9	nne.				2-3	ne.	d. clouds.
H. M. S. Espiegle, S. 17° 35′ E. 168° 16′	29.99	761.7	71	21.7	71	ese.			1-4		5	w.						d. clouds.
H. M. S. Fantome, N. 17° 50′, W. 76° 52′	29.95	760.7	83	28.3		se.			4		4	se.				1	se.	d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.02	762.5	59	15.0	87	calm			0		10							overcast.
H. M. S. Griffon, N. 49° 30′, W. 57° 52′	29.92	760.0	58	14.4	69	calm			0		0							blue sky.
H. M. S. Iron Duke, N. 49° 48′, E. 141° 09′	29.70	754.4	61	16.1	94	nw.			1		10							overcast.
H. M. S. Kingfisher, N 48° 10′, W. 124° 50′	29.83	757.7	56	13.3		calm			0		9							raining.
H. M. S. Lark, S. 10° 28′, E. 161° 59′	29.95	760.7	78.3	25.7	93	calm			0		10					1	se.	raining.
H. M. S. Liffey, Coquimbo, Chili	30.01	762.2	51.5	10.8		calm			0		10							d. clouds.
H. M. S. Magpie, N. 34° 43′, E. 128° 38′	29.73	755.1	80.1	26.7	81	nne.			3-5		4	se.				3	e.	squally.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.91	759.7	82	27.8	74	wnw.			3		0					2	nw.	misty.
H. M. S. Nelson, S. 35° 16′, E. 174° 08	29.47	748.5	58	14.4	69	calm			0		1	sw.						blue sky.
H. M. S. Northampton, Halifax, Nova Scotia	29.82	757.4	63.5	17.5	86	nnw.			2		10	nnw.						d. clouds.
H. M. S. Orontes, N. 33° 45′, E. 21° 30′	29.98	761.5	77.5	25.3	92	nw.			4		1	wnw.				4	nw.	blue sky.
H. M. S. Pegasus, N. 5° 24′, E. 100° 20′	29.82	757.4	81.5	27.5	87	sw.			1		10							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Island	30.18	766.6	67	19.4	90	se.			3		5	ese.						d. clouds.
H. M. S. Rocket, Vancouver Island, B. A	29.83	757.7	55	12.8	?	calm			0		9							raining.
H. M. S. Sappho, N 12° 30′ W. 151° 00′	29.88	758.9	78.5	25.8		ne.			4-5		2	ne.				4	ne.	squally.
H. M. S. Swiftsure, S. 47° 26′, W. 64° 40′	30.31	769.9	39.5	4.2	91	nnw			4		8	nnw.				4	nnw.	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.30	769.6	41.0	5.0	95	ssw.			3-4		7							squally.
H. M. S. Tenedos, N. 51° 32′ W. 55° 45′	30.04	763.0	46	7.8	92	n.			3		10							overcast.
H. M. S. Thetis, S. 6° 40′, W. 80° 45′	30.01	762.2	61	16.1	94	se.			2		9					3	se.	d. clouds
H. M. S. Triumph, Sandy Point, Patagonia	29.97	761.2	36	2.2	90	ene.			2-3		8	calm						d. clouds.
H. M. S. Tyne, N. 38° 51′, W. 26° 30′	30.33	770.4	71	21.7	85	e.			3-4		9	calm				3	e.	d. clouds.
H. M. S. Woodlark, Jask Bay, Persia	29.59	751.6	94.5	34.7	64	s.			3		2							dense mist.
H. M. S. Zephyr, N. 35° 57′, E. 141° 19′	29.91	759.7	78	25.6	100	s.			2-3		1					4	sw.	blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Bulama, Senegambia	30.10	764.6	79.7	26.5	88				1		10			13 h'r	13 h'r			showery.
Tamega, Macao, China	29.58	751 4	87.8	31.0	85	w.			2		0							blue sky.
SWEDISH NAVAL.																		
Saga, N. 63° 55′, E. 4° 25′	29.82	757.3	57.4	14.1	98	s.			4		10							overcast.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.02	762.5	79	26.1	95	ne.	4	1.8			5		se.	0	0			fair.
Navy Yard, Portsmouth, N. H	30.07	763.8	69	20.6	61	ne.	12	5.4			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.80	756.9	79	26.1	78	sw.			2		1		sw.	0	0			clear.
Adams, Mare Island, Cal						sw.			3		10			0	0	sm'h		cloudy.
Alaska, S. 11° 38′ W. 76° 26′	30.01	762.2	60	15.6	82	s.			2		5			0	0	long	se.	fair.
Alliance, N. 42° 30′, W. 69° 50′	30.01	762.2	76	24.4	46	nne.			4		5			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan*	29.80	756.9	80	26.7	82	ssw.			3		2		calm					clear.
Brooklyn, Rio de Janeiro, Brazil	30.12	765.0	68	20.0	95	calm	0	0			10		calm	0.09	2.3	sm'h		cloudy.
Colorado, New York, N. Y	30.06	763.5	71	21.7	75	nne.	8	3.6			2		wsw.	0	0			clear.
Constellation, New York, N. Y*	29.96	761.0	73	22.8	58	nne.			2		5		nne.					fair.
Essex, S. 32° 11′, W. 72° 43	29.95	760.7	54	12.2	87	nnw.			4		10		nw.			sm'h	nw.	overcast.
Franklin, Norfolk, Va	30.06	763.5	76	24.4	95	sw.	9.6	4.3			8		s.	0.14	3.6			fair.
Galena, Gibraltar, Mediterranean	29.97	761.2	73	22.8	100	e.			3		5		ese.			mod.	ese.	fair.
Independence, Navy Yard, Mare Island, Cal	29.98	761.5	55	12.8	100	sw.			4		10			0	0			cloudy.
Iroquois, N. 34° 20′ W. 121° 51′	30.01	762.2	58	14.4	88	nw.			3		10					long	nw.	cloudy.
Kearsarge, Norfolk, Va	30.05	763.3	76	24.4	100	sw.			1		8		w.					cloudy.
Lackawanna, Callao, Peru*	29.99	761.7	60	15.6	94	sw.			1		10		sw.					misty
Lancaster, N. 42° 25′ E. 10° 56′*	29.92	760.0	76	24.4	91	sw.			4		5		sw.	0	0	sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	30.24	768.1	42	5.6	100	sse.			5-6		10		s.	light	light	r'gh	s.	squally.
Michigan, Green Bay, Wisconsin	30.18	766.6	61	16.1	82	se.			1		5		se.					fair.
Minnesota, Newport, R. I	30.32	770.1	76	24.4	46	ne.	1	0.4			10		ne.					drizzling.
Monocacy, Che Foo, China	29.72	754.9	84	28.9	71	s.			2		10		calm			sm'h		cloudy.
New Hampshire, Newport, R. I	29.97	761.2	70	21.1	75	nne.			4		2					sm'h		fair.
Nipsic, N. 35° 43′, E. 12° 16′*	30.02	762.5	79	26.1	74	s.			3		0					sm'h		clear.
Onward, Callao, Peru	30.13	765.3	58	14.4	100	sse			2		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.79	756.7	83	28.3	75	calm			0		0							clear.
Passaic, Washington, D. C	30.07	763.8	73	22.8	95	ne.			2		5		ne.					fair.
Pensacola, Panama, Panama*	29.79	756.7	78	25.6	86	nw.	3	1.3			10		nw.	0	0	sm'h		cloudy.
Portsmouth, Genoa, Italy*	29.87	758.7	76	24.4	60	se.			4		8		nw.			long	se.	cloudy.
Powhatan, N. 24° 23′, W. 81° 17′	30.07	763.8	86	30.0	72	ese.			3		5		ese.			cross	var.	cloudy.
Quinnebaug, Alexandria, Egypt	29.91	759.7	80	26.7	82	nw.			3		0					sm'h		clear.
Ranger, Mare Island, Cal	29.95	760.7	57	13.9	75	sw.			3		10			0	0			overcast.
Richmond, Yokohama, Japan*	29.81	757.2	80	26.7	87	ssw.			3		2		ssw.	0	0			fair.
Saratoga, Genoa, Italy	29.87	758.7	75	23.9	100	sse.			1		8		s.	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.29	769.4	73	22.8	67	nne.			2		5			0	0			fair.
Swatara, Kobe, Japan*	29.71	754.6	83	28.3	75	calm			0		0					sm'h		clear.
Tennessee, N. 42° 34′, W. 69° 41′	30.05	763.3	70	21.1	80	nne.	18	8.0			2			0	0	mod.		fair.
Vandalia, Portsmouth, N. H*	30.04	763.0	68	20.0	70	nne.			2		2		calm					clear.
Wabash, Boston, Mass	30.06	763.5	68	20.0	65	n.	9	4.0			0			0	0			clear.
Wachusetts, Fort Wrangle, Alaska			54	12.2	100	e.			1		10		se.			sm'h		overcast.
Wyoming, Port Royal, S. C*	30.07	763.8	79	26.1	86	w.	2	0.9			8		sw.	0	0			cloudy.
Yantic, N. 42° 17′, W. 70° 04′	30.04	763.0	66	18.9	89	nne.			3		5					sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind. Upper.	Amount and kind. Lower.	Direction. Upper.	Direction. Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mts. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 56° 15′, W. 20° 13′*	30.09	764.3	56	13.3	87	wsw.			5		5		w.	inap.	inap.	4	w.	showery.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, N. 42° 09′, W. 53° 09′ *†	29.90	759.4				ssw.			3		2		s.	mist	mist	sm'h		fine.
S. S. Lord Gough, N. 50° 50′, W. 32° 03′	30.01	762.2	58	14.4		ssw.			6		10		sw.	9 h'r	9 h'r	mod	s.	foggy.
ANCHOR LINE.																		
S. S. Alexandria, Castellamare, Italy	30.11	764.8	79	26.1		nw.			2		0			0	0			clear
S. S. Ethiopia, New York, N. Y.	30.09	763.5	73.5	23.1	85	n.			3		2		n.	0	0			clear.
S. S. Galatia, Bombay, India†	29.90	759.4	91	32.8		wsw.			4		8		sw.	2 h'r	2 h'r	mod.	wsw.	
S. S. Utopia, N. 50° 23′, W. 21° 02′†	30.46	773.7	62	16.7	66	se.			4		9		wsw.	0	0	sli't	w.	cloudy.
ATLAS LINE.																		
S. S. Ailsa, Cartagena, U. S. C.†	29.90	759.4	80	26.7	86	e.			2		5		ne.	0	0			fair.
S. S. Alene, N. 34° 25′, W. 73° 34′†	30.15	765.8				sw.			1		1		sw.	0	0	mod.	sw.	clear.
S. S. Alpin, N. 19° 58′, W. 66° 12′	30.08	764.0				ese.			2		4		e.	3 h'r	3 h'r	mod.	se.	
S. S. Alvo, N. 10° 39′ W. 79° 09′	29.90	759.4				nne.			6		5?		nne.	0	0	r'gh	ne.	cloudy?
BOSTON AND HALIFAX.																		
S. S. Carroll, Seal Island, Alaska†	30.01	762.2	54	12.2		nnw.			2		10			0	0		sse.	dense fog.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 35° 13′, W. 24° 34′	29.91	759.7	63	17.2	94	nnw.			6		10							threatening.
S. Baroda, S. 16° 44′, W. 19° 20′	30.23	767.8	66.4	19.1	79	se.			5		9							d. clouds.
S. S. City of Agra, S. 33° 18′, W. 29° 15′	29.84	757.9	60	15.6	100	nw.			5		10							raining.
Bk. Commewyne, N. 35° 42′, W. 54° 40′	30.04	763.0	78.5	25.8	86	sw.			2		3							d. clouds.
May Hulse, N. 25° 38′, W. 35° 58′	30.14	765.5	78.7	25.9	78	ne.			4		10							overcast.
S. S. Minho, N. 34° 55′, W. 11° 55′	29.94	760.5	68.6	20.3	95	n.			5		8							misty.
S. S. Oamaru, S. 16° 26′, W. 5° 14′	30.24	768.1	68.3	20.2	75	ese.			5		4							showery.
S. S. Pole Star, N. 39° 18′ W. 38° 11′	30.22	767.0	77.3	25.2	95	sse.			2		4							bluesky
S. S. Rosetta, N. 24° 30′, E. 119° 31′	30.40	773.7	83.5	28.6	83	nnw.			4		9							d. clouds.
CROMWELL LINE.																		
S. S. Hudson, N. 38° 10′, W. 74° 03′†	30.09	764.3	72	22.2		sw.			1		8		sw.	1 h'r	1 h'r	mod.	s.	cloudy.
CUNARD LINE.																		
S. S. Bothnia, N. 43° 02′, W. 58° 01′	29.84	757.9	73	22.8	90	w.			4		10		w.	3 h'r	3 h'r	sm'h		foggy.
S. S. Scythia, New York N. Y.	30.07	763.8	74	23.3	70	n.			1		4		wnw.	¼ h'r	¼ h'r			fine.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. Ville de Marseilles, Gibraltar, Mediterranean*†	29.95	760.7	79	26.1		se.			4		2		se.	0	0	mod.	se.	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Gellert, N. 50° 25′, W. 18° 57′	30.25	768.3	62	16.7		sw.			4		10		sw.	0	0	sm'h	sw.	covered.
S. S. Herder, Hamburg, Germany	29.93	760.3	64	17.8		sw.			3		10		wsw.	24 h'r	24 h'r			covered.
S. S. Silesia, N. 48° 31′, W. 25° 24′†	30.40	772.1	63.6	17.6	94	sw.			5		10		sw.	0	0	4	w.	cloudy.
S. S. Westphalia, N. 44° 20′, W. 58° 02′	29.75	755.6	64	17.8	67	sw.			1		4		nw.	0	0	sm'h	s.	foggy.
INMAN LINE.																		
S. S. City of Berlin, N. 51° 30′, W. 14° —′	30.31	769.9				nnw.			5		8		nw.	0	0	sm'h		fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Montevideo, Uruguay*†	30.35	770.9	50	10.0		ese.			5		0		ese.	0	0			clear.
LEYLAND LINE.																		
S. S. Bulgarian, N. 43° 01′, W. 60° 36′*	29.80	759.2				wsw.			3		10		w.	1 h'r	1 h'r			overcast.
MALLORY LINE.																		
S. S. Colorado, N. 38° 16′, W. 74° 29′†	30.05	763.3	80	26.7		nw.			3		3		nw.	shr's	shr's	small	sw.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 42° 08′, W. 57° 49′*†	29.60	751.8	77.0	25.0		w.			2		8		wsw.	1 h'r	1 h'r	mod.	ssw.	cloudy.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 33° 09′, W. 68° 29′	29.67	753.6				wsw.			4				nw.	0	0	mod.	w.	fine.
S. S. Genapp, N. 25° —′ W. 64° —′†	30.28	769.1				e.			4		4		ese.	0	0	high		fine.
MORGAN LINE																		
S. S. New York, N. 39° 20′, W. 74° 09′ *†	30.12	765.0	78	25.6		nne.			1				nne.	0	0	small	s.	clear.
NATIONAL LINE.																		
S. S. Canada, N. 48° 45′, W. 10° 47′†	30.36	771.1	65	18.3		n.			1		7		ne.			sl't	n.	fine.
S. S. Denmark, New York, N. Y.	30.03	762.7	75	23.9		wnw.			1		2		nw.	0	0			clear.
S. S. England, N. 48° 54′, W. 27° 34′	30.27	768.8				sw.			3		10		sw.	0	0	sl't	w.	foggy.
S. S. Erin, N. 40° 31′, W. 70° 52′	29.97	761.2	68	20.0		nne.			6		5		ene.	0	0		w.	fine.
S. S. The Queen, N. 40° 42′, W. 64° 01′	29.90	759.4	69	20.6		sw.			3		10			2 h'r	2 h'r	sm'h		overcast.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 28° 35′, W. 78° 09′†	30.16	766.1	83	28.3	83	sse.			3		8		ese.	6 h'r	6 h'r			rainy.
S. S. City of Washington, N. 29° 50′, W. 90° 55′ *†	30.05	763.3	83	28.3		ene.			2		2		e.	0	0	sm'h		fine.
NORTH GERMAN LLOYD.																		
S. S. Hermann, N. 49° 00′, W. 21° 09′	30.38	771.6	60.8	16.0		ssw.			5		6		sw.	0	0	light	w.	cloudy.
S. S. Leipzig, N. 41° 40′, W. 49° 50′	30.01	762.2	84.0	28.9	87	sw.			3		2			0	0	sm'h		fair.
S. S. Neckar, N. 41° 14′ W. 62° 19′	29.99	759.4	69.0	20.6		nw.			4		10		nw.	0	0	sm'h.	nw.	misty.
S. S. Ohio, N. 48° 02′, W. 16° 59′	30.41	772.4				n.			3		5?		nw.	0	0	sm'h	n.	cloudy.?
S. S. Saller, N. 50° 02′, W. 17° 52′	30.40	772.1	53.6	12.0		calm			0		2		sw.	2 h'r	2 h'r	mod	sw.	fair.
S. S. Strassburg, N. 39° 22′, W. 66° 02′	29.97	761.2	77	25.0	95	w.			4		10			½ h'r	½ h'r	mod.	w.	covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 42° 39′ W. 164° 47′†	30.51	774.9	66	18.9	90	ssw.			1		8		sw.			sm'h		foggy.
S. S. Coptic, N. 22° 26′, E. 115° 41′	29.51	749.5	85.0	29.4	?	sw.			2		4		ne.	0	0			d. clouds.
S. S. Gaelic, N. 39° 54′, E. 164° 02′†	30.14	765.5	59	15.0	?	sw.			2		2		w.				w.	clear.
S. S. Oceanic, N. 46° 57′ E. 170° 49′*	29.72	754.9	51	10.6	86	sw.			4		10		sw.			3	w.	cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 37° 34′, W. 74° 40′†	30.11	764.8				wsw.			3		10?		sw.	0	0	sm'h		clear?
S. S. City of Columbus, Savannah, Ga.†	30.12	765.0				w.			1		1		nw.	0	0			clear.
S. S. Seminole, N 38° 26′, W. 73° 49′†	30.12	765.0	78	25.6	90	nw.			3		5		nnw.	2 h'r	2 h'r	mod.	sw.	fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 37° 58′, W. 123° 07′†	29.94	760.5	51	10.6	93	nw.			2		10					light	nw.	misty.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 33° 36′, W. 118° 09′†	29.97	761.2	63	17.2	83	wnw.			2		10		w.			sm'h		cloudy
S. S. City of Chester, San Francisco, Cal.†	29.92	760.0	53	11.7	?	nw.			3		10		nw.					cloudy.
S. S. Idaho, Willamette River, Oregon†	29.96	761.0	67	19.4	90	se.			1		10		e.					cloudy.
S. S. State of California, Portland, Oregon†	29.95	760.7	53	11.7	79	se.			2		8							overcast.
S. S. Victoria, East Point, †	29.84	758.0	54	12.2	100	s.			2		8			10 h'r	10 h'r			overcast.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	29.93	760.2	50	10.0	70	w.			3		5		w.	0	0			clear?
S. S. City of New York, Sydney, N. S. W.†	29.93	760.2	48	8.9	70	se.			2		5		se.	0	0			fair.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.08	764.0	70	20.1	91	nw			2		6		nw.	0	0	sm'h		fair.
S. S. City of Sydney, N. 15° 30′, W. 160° 10′†	29.99	761.7	78	25.6	73	ne.			4		5		ne.	0.062	1.6	mod.	ne.	drizzling.
S. S. City of Tokio, N. 29° 47′, E. 118° 35′†	29.52	749.8	83	28.3	87	w.			3		2		wsw.	0	0	r'gh	sw.	fine.
S. S. Colima, N. 37° 20′, W. 122° 34′†	30.02	762.5	53	11.7	100	nw.			2		10		nw.	0	0	sm'h	w	foggy.
S. S. Costa Rica, Panama Panama*†	29.94	760.5	78	25.6	95	nw.			2		2		calm	0	0	sm'h		fine.
S. S. Grenada, N. 16° 00′, W. 98° 22′†	29.93	760.2	78	25.6	?	n.			2		2		se.	2 h'r	2 h'r	sm'h	var.	clear.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, N. 38° 45′, W. 72° 50′	29.89	759.2	78	25.6		ne.			3		10			0	0	sm'h		
S. S. Bermuda, Roseau, W. I†	30.08	764.0	82	27.8		e.					6		e.	rain	rain	sm'h		cloudy.
RED STAR LINE.																		
S. S. Belgenland, Philadelphia, Penn.†	30.24	768.1	91	32.8	85	n.			4		6		w.	0	0			
S. S. Nederland, N. 50° 21′, W. 1° 17′	30.24	768.1	65	18.3	84	w.			3		2		w.			sm'h		hazy.
S. S. Rhynland, N. 48° 40′, W. 25° 20′	30.40	772.1	68	20.0	84	s.			3		7		s.	0	0	long	wsw	hazy.
S. S. Switzerland, N. 41° 12′. W. 54° 30′†	29.98	761.5				wsw.			2		8		wsw.	0	0	sm h		cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. Schiedam, N. 46° 07′, W. 36° 40′*	30.01	762.2	68.7	20.4	91	ssw.			4					2 h'r	2 h'r	mod.	w.	foggy.
S. S. W. A. Scholten, N. 41° 39′ W. 52° 14′	29.83	757.7	74.3	23.5	90	ssw.			5		6		wsw.	3 h'r	3 h'r	mod.	w.	squally.
STATE LINE.																		
S. S. State of Florida, N. 42° 12′, W. 52° 47′	29.87	758.7	73	22.8		ssw.			4		8		wsw.			sli't	sw	misty.
S. S. State of Georgia, N. 55° 16′ W. 10° —′†	30.18	766.6	58	14.4		w.			5		3		wnw.	3 h'r	3 h'r	mod.	wnw.	fine.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 58° 38′ W. 6° 41′†	30.22	767.6	59.0	15.0		wnw.			3		3		wnw.	0	0	r'gh	wnw.	clear.
W. I. & PACIFIC STEAMSHIP CO.																		
S. S. Venezuela, N. 42° —′, W. 50° —′*	29.98	761.5	78	25.6	69	ssw.			4		1		sw.			sm'h		clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 40° 09′, W. 49° 59′	30.03	762.7							2		2		sw.	0	0	1	sse.	
WHITE STAR LINE.																		
S. S. Adriatic, Liverpool, Eng†	30.18	766.6	62	16.7	91	sw.			4		2		w.	1 h'r	1 h'r			fair.
S. S. Baltic, N. 40° 39′ W. 66° 27′†	30.05	763.3	70	21.1	95	calm			0		10		nne.	0	0	sm'h		foggy.
S. S. Celtic, N. 51° 02′ W. 23° 12′†	30.29	769.4	60	15.6	94	ssw.			4		10		ssw.	0	0	mod.	wnw.	misty.
S. S. Germanic, N. 40° 16′, W. 70° 10′†	30.06	763.5	67	19.4		n.			3		8		nne.			sm'h		misty.
S. S. Republic, New York, N. Y†	30.23	767.8	74	23.3	81	e.			1		0			0	0			blue sky.
WILSON LINE.																		
S. S. Romano, Land's End, Eng	30.19	766.8	62	16.7		w.			3		10		nw.			mod.	w.	cloudy.
WINSOR LINE.																		
S. S. Catherine Whiting, Fire Island, N. Y†	30.10	764.5	76	24.4		n.					0			0	0			
MISCELLANEOUS.																		
Bg. Abbe Clifford, N. 42° 16′ W. 70° 25′.*†	30.01	762.2	70	21.1		nne.			5		2		nne.	0	0			
Schr. Ajax, N. 23° 54′ W. 82° 22′†	30.01	762.2				ese.			1		2		e.	0	0	sm'h	e.	fair.
Bk. Alpha, N. 45° 20′ W. 45° 50′†	29.99	761.7	72	22.2		sse.			4		6		w.	0	0	mod.	w.	cloudy.
Schr. Annie Lewis, N. 28° 58′, W. 89° 25′†	30.23	767.8	83	28.3		sse.			2		0			0	0	sm'h		clear.
Bk. Anna Thormann, S. 38° 03′, E. 66° 27′	30.48	774.2	48.9	9.4	78	sse.			6		4 k;n		s.	shr's	sh'rs	long	s.	squally.
Bk. Argonaut, N. 46° 34′, W. 44′ 22 *†	29.96	761.0	57 2	14.0		wsw.			4		10			½ h'r	½ h'r	mod.	n.	foggy.
Schr. Asa Eldridge, Off Cape Romano, Fla†	30.22	767.6				ene.			3		6		ese.	0	0	sm'h	e.	fair.
Bk. Aureola, S. 13° 01′ W 38° 21′*†	30.39	771.9	82	27.8		ese.			1		0			0	0	mod.	s.	clear.
Bk. Bremen, N. 59° 00′ W. 7° 11′*†	30.00	762.0				wsw			5		4		w.	rain	rain		var.	fair.
S. S. Burswell, Bordeaux, France*†	30.36	771.1	82	27.8		calm			0		0			0	0			very fine.
Bk. Cato, Malmo, Sweden*†	30.14	765.5				ene.			1		4?			0	0			cloudy.?
Bk. Celestina, S. 4° 15′, W. 25° 10′*†	30.03	762.7				e.			2		2		ese.	0	0	sm'h	e.	fine.
Schr. C. R. Flint, N. 30° 45′, W. 78° 48′†	30.34	770.6	82	27.8		e.			1		0			0	0	sm'h		clear.
S. Cornelius, N. 47° 10′, W 17° 00′*†	30.59	777.0	62	16.7		nne.			4		8		ne.	0	0	sm'h	nnw.	cloudy.
S. S. D. J. Foley, N. 23° 31′, W. 74° 36′†	30.03	762.7				e.			6		6		e.	0	0	long	e.	hazy.
Schr. Edith R. Seward, N. 27° 03′, W. 73° 00′*†	30.26	768.6	86	30.0		se.			1		4		ese.	1 h'r	1 h'r	mod.	ese.	fair.
S. E. J. Spicer, New York, N. Y*†	30.08	764.0	74	23.3		nnw.			5		3		nw.	0	0			
Bk. E. L. Pettingill, N. 21° 11′ W. 157° 15′†	30.20	767.1				ene.			6		2		ene.	0	0	mod.	e.	
S. Enoch Train, N. 47° 00′, W. 23° 00′*†	30.60	777.2				sw.			2		9		sw.	0	0	light	nw.	overcast.
Bk. Essex, S. 24° 39′ E. 42° 05′*†	30.13	765.3	75	23.9		nne.			1		8		n.	1 h'r	1 h'r	sm'h	sse.	cloudy.
Bk. Franklin, N. 42° 10′, W. 41° 00′*†	30.50	774.7				s.			3		5			0	0	sm'h		fair.
S. Grecian, Hong Kong, China*†	29.60	751.8	90	32.2		sw.			2		0			0	0			clear.
Bk. Hattie G. McFarland, N. 41° 15′, W. 69° 05′*†	30.03	762.7	58	14.4		ne.			3		0			0	0	sharp	ne.	foggy.
Bk. Heinrich & Tonio, N. 39° 52′, W. 57° 48′*†	30.26	768.5	79	26.1		wsw.			4		5		wsw.	0	0	mod.	wsw.	fair.
Bk. Horace Scudder, Port of Spain, Trinidad, W. I†	30.01	762.2	81	27.2		calm			0					2 h'r	2 h'r			cloudy.
S. Ivy, S. 23° 20′, W. 129° 00′†	30.15	765.8	73	22.8		n.			6		10		n.			r'gh	ne.	drizzling.
S. Ismir, S. 20° 42′ E. 104° 40′†	30.21	767.3				e.			5		8		e.	1 h'r	1 h'r	mod	e.	
Schr. James Slater, N. 25° 53′ W. 66° 04′*†	30.48	774.2	84	28.9		ene.			3		2		e.	0	0	long	ese.	
Schr. Jennie N. Huddell, N. 40° 40′, W. 72° 00′†	30.19	766.8	72	22.2	90	nne.			3		0			0	0	short	nne.	clear.
Bk. Johanne, N. 47° 14′, W. 47° 48′*†	29.85	758.2	58	14.4		ssw.			4		1		sw	0	0	mod.	sw.	foggy.
Bg. John Wesley, St. Jago, Cuba, W. I†	29.86	758.4				n.			1		1			0	0			clear.
Bk. Joseph A. Ropes, S. 31° 00′, W. 31° 26′*†	29.95	760.7	63	17.2	100	wnw.			3		10			3 h'r	3 h'r	mod.	n.	cloudy.
Bkt. Josephine, Havana, Cuba, W I†	30.03	762.7	79	26.1	82	se.			2		1			0	0			fair.
Bkt. Kryolith, N. 42° 03′, W. 64° 15′*†	29.92	760.0				wnw.			3		fg.					light	sw.	foggy.
S. S. Laurel, Key West, Florida†	30.08	764.0	82	27.8		ese.			1		9		ese.	sh'rs	sh'rs			raining.
Bk. Liberia, N. 26° 26′, W. 64° 22′*	30.11	764.8	81	27.2	82	ne.					2			0	0		se.	
S. S. Madrid, N. 50° 37′, —. 0° 00′*†	30.24	768.1	67	19.4		wsw.					hz.			0	0	sm'h		misty.
S. S. Nebo, Genoa, Italy*†	29.97	761.2				s.			3		0			0	0			clear.
S. Orealla, N. 34° 11′, W. 41° —′*	30.14	765.5	82	27.8		n.			1		1		e.	0	0		ene.	clear.
S. Paramita, N. 23° 07′ W 131° 02′†	30.00	762.0	70	21.1		nne.			5		6		nne.	mist	mist	long	nnw.	misty.
Bk. Sunbeam, N. 39° 15′ W. 60° 53′†	30.05	763.3	80	26.7	95	w.			4		8		w.	½ h'r	½ h'r	mod.	w.	cloudy.
S. S. Sunbeam, N. 37° 24′, E. 24° 05′	29.91	759.7	81	27.2	82	wnw.			2		0							blue sky
S. Sovereign Of The Sea, S. 30° 10′ W. 43° 36′*†	29.87	758.7	69	20.6	84	wsw.			6		7	nw.	sw.	2 h'r	2 h'r	hv'y	wsw.	squally.
Bg. Teneriffe, Sagua la Grande, Cuba	30.01	762.2				se.			1									
Bk. Truro, N. 44° 55′, W. 56° 45′*†	29.80	756.9				wsw.			2		10			2 h'r	2 h'r	sm'h		dense fog.
U. S. F. C. S. S. Fish Hawk, Woods Holl, Mass†	30.21	767.3	69	20.6	90	sw.			2		6		sw.	0	0			fair.
Bk. Vincenzo Accame, N. 37° 18′, W. 22° 55′†	30.55	776.0	73.4	23.0		ne.			5									
Schr. Viola Reppard, York Spit Light, Va†	29.95	760.7	82	27.8		ne.			2		9			0	0			cloudy.
Bk. Wm. Wilcox, Buenos Ayres, S. A*†	30.40	772.1	55	12.8		ssw.			2		0			0	0			clear.

International Chart I. July 30, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON JULY 31, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.01	762.3	77.4	25.2	82	s.			3		2			0	0	fair	Bouvier.
Algiers			30.06	763.6	76.3	24.6	69	e.			1		0			inap.	inap.	clear	Nicolas.
La Calle			30.07	763.8	78.1	25.6	82									0.059	1.5		Fonfrède.
Tunis			30.06	763.4															Jacques.
Saida			30.06	763.4	93.0	34.2	47	sw.			2		1			0	0	very fair	Perès.
Tebessa			30.05	763.3	87.4	30.8	13	n.			2		2			0	0	fair	Derché.
Geriville					95.0	35.0	10	w.			1		3			inap.	inap.	pretty fair	Lonchamp.
Laghouat			30.06	763.6	90.8	30.0	33	e.			3		4			0	0	cloudy	Abraham.
Biskra			30.06	763.5	99.7	37.6	19	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.76	755.9	29.85	758.2	49.0	9.4	73	nnw.	13	5.8			10			0.03	0.8	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.58	751.3	30.11	764.9	69.4	20.8	68	e.			1		8			0	0		Prof. Ivan Stozir.
Cracow, I. R. Observatory	29.28	743.8	30.04	762.9	66.2	19.0	87	w.	17.4	7.8			9			0.169	4.3		Dr. Wierzbiski.
Eperies	29.09	738.9	29.93	760.2	76.6	24.8	71	s.			4	0	6 ks		n.	0	0		Julius Mikolik.
Gratz	28.89	733.8	30.11	764.8	68.0	20.0	84	sw.			2		0			0.157	4.0		Andreas Rospini.
Hermannstadt	28.55	725.1	29.91	759.6	79.2	26.2	55	nw.			2		4			0.071	1.8		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.84	732.6	30.18	766.5	57.6	14.2	77	w.			3		10			0.004	0.1	raining	The Staff.
Lemberg	29.03	737.3	29.97	761.2	75.7	24.3	56	sw.			1		7			0	0		Dr. T. Stanecki.
Pola	29.95	760.6	30.06	763.6	74.8	23.8	55	w.			1		5			0.339	8.6	thunder	I. R. Hydrographic Office.
Szathmar	29.51	749.6	29.96	760.9	77.5	25.3	48	e.			2		3			0.118	3.0		Joseph Midlinszky, S. J.
Szegedin	29.78	756.4	30.05	763.3	67.6	19.8	70	s.			2		5			0	0		Karl Stancel.
Trieste	29.98	761.5	30.08	764.1	77.4	25.2	45	ne.			1		2			0	0		Royal Academy.
Vienna	29.45	747.9	30.15	765.9	62.1	16.7	67	w.			3		10			0.008	0.2		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.01	762.2	30.11	764.8	62.0	16.7	59	nne.	7	3.1			0			0.145	3.7	d. clouds	W. Boswell
Armagh, Observatory	29.99	761.7	30.22	767.6	55.0	12.8	90	ssw.	10	4.5			10					raining	S. Call.
Bidston, Liverpool Obs'y					59.8	15.4	73	w.	18	8.0			10					overcast	John Hartnup.
Bolton, Sharples	29.72	754.9	30.25	768.3	60.2	15.7	68	wsw.	42	18.8			0					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.82	757.4	30.22	767.6	62.3	16.8	57	nw.			1		4			0.02	0.5	d. clouds	[ton, McLandsborough & Pres-
Bridgetown, Barbadoes	29.98	761.5	30.02	762.5	83.0	28.3	80	nn.			3		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			30.28	769.1	69.0	20.6	58	nw.			1.0		7					d. clouds	John McLaren.
Chatham, School M. E.	30.17	766.3	30.30	769.6	68.3	20.2	52	nw.			1		4					misty	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	30.17	766.3	30.39	771.9	65.0	18.3	73	wsw.			2		2					d. clouds	The Staff.
Fort Napier, Natal	27.77	705.4	29.99	761.7	54.0	12.2	73	ne.			1		8					raining	Pvt. Lane, A. H. C.
Free Town, Sierra Leone	29.65	753.1	29.88	758.9	85.0	29.4	75	nw.			1		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.11	764.8	30.17	766.3	78.2	25.7	75	e.			4		8					gloomy	Cpl. O. Baldwin.
Glasgow, Observatory	29.97	761.2	30.18	766.6	50.3	13.5	77	ssw.			5		10			blank	blank	gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.12	765.0	30.29	769.4	67.8	19.9	52	wnw.			1		0					misty	The Staff.
Guernsey	30.10	764.5	30.39	771.9	65.0	18.3	52	n.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.27	768.8	30.30	769.6	65.4	18.4	48	w.	10	4.5			5					d. clouds	The Staff.
Leicester, Museum	30.02	762.5	30.27	768.8	63.0	17.7	50	nw.			1		5					d. clouds	J. C. Smith.
Malta, Mediterranean	29.98	761.5	30.05	763.3	83.0	28.3	50	w.			2		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.11	764.8	30.15	765.8	83.5	28.0	74	e.			1		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.78	756.4	30.30	769.6	65.5	18.6	58	w.			4		7					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	30.08	764.0	30.32	770.1	63.3	17.4	61	wnw.			3		6					d clouds	The Staff.
Plymouth	30.30	769.6	30.38	771.6	68.0	20.0	58	w.			3		0					blue sky	John Merrifield.
Sandwick Manse, Orkneys			30.06	763.5	57.0	14.2	79												Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.83	757.7	29.89	759.2	94.0	34.8	43	ne.			2		1					blue sky	W. H. Lyne.
Sheffield	29.99	761.7	30.26	768.6	66.2	19.0	57	w.			2		10			0.12	3.0	overcast	W. F. Cooper.
Silloth Rectory	30.20	767.1	30.23	767.8	56.0	13.3	81	wsw.			4		10			0.300	7.6	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.28	769.1	58.7	14.8	61	w.	10	7.2			10					overcast	Rev. S. J. Perry.
Stratfield Turgiss					71.3	21.8	52	nw.			2		0					blue sky	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.38	771.6	30.39	771.9	73	22.8	50	nw.			6		4					d clouds	W. Newcombe.
Valencia, Observatory	30.32	770.1	30.35	770.9	58.6	14.8	87	sw.	25	11.2			10			blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.21	767.3	30.25	768.3	61	16.1	72	nw.	12	5.4		0	2 ks		nw.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.26	768.6	30.32	770.1	54	12.2	93	ne.	2	0.9		0	0			inap.	inap.	clear	G. A. Blair.
Father Point, Quebec*	29.27	768.8	30.29	769.4	55	12.8	90	sw.	10	4.5		2 c	0	calm		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.23	742.4	30.03	762.7	60	15.6	93	s.	13	5.8		5 cs	0	se.		0	0	fair	James Stewart.
Halifax, N. S*	30.13	765.3	30.20	768.6	60	15.6	72	n.	7	3.1		8 k	0	n.		0	0	cloudy	A. Allison.
Kingston, Ontario*	29.92	760.0	30.24	768.1	66	18.9	78	ne.	7	3.1		5 c	2 s	n.	calm	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	30.08	764.0	30.28	769.1	65	18.3	75	e.	5	2.2		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.54	750.3	30.21	767.3	66	18.9	73	se.	3	1.3		2 cs	0	w.		0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.49	749.0	30.16	766.1	63	17.2	89	ne.	6	2.7		3 cs	0	nw.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.51	749.5	30.13	765.3	66	18.9	73	e.	8	3.6		2 ck	5 ks	w.	e.	0	0	cloudy	M. Payne.
Quebec, Quebec*	30.01	762.2	30.32	770.1	59	15.0	81	calm			0	0	0			0	0	hazy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.80	756.9	30.25	768.3	58	14.4	87	calm	0	0		2 c	0	w.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.47	748.5	30.18	766.6	57	13.9	86	se.	7	3.1			10 ks			0	0	cloudy	
St. Andrews, N. B	30.25	768.3	30.30	769.6	59	15.0	81	ne.	1	0.4		2 c	0	n.		0	0	clear	
Sydney, C. B*	30.14	765.5	30.20	767.1	57	13.9	72	ne.	10	4.5		0	5 k		n.	0.10	2.5	fair	T. C. Hill, C. E
Toronto, Ontario*	29.85	758.2	30.23	767.8	67	19.4	70	e.	9	4.0		3 c	0	w.		0	0	fair	Magnetic Observatory.
Yarmouth, N. S*	30.21	767.3	30.28	769.1	61	16.1	60	e.	8	3.6		5 ck	0	ne.		0	0	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.80	731.5	30.24	768.1	60.0	15.6	76	ne.			3	10ck;8	0	wnw.		0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	30.017	762.27	30.267	768.67	48	8.9	100	nw.					10			0.50	12.7		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.56	776.2	30.59	777.0	64.0	17.8	88	wsw.	8.1	3.6		0	8 k			0	0	light haze	John Duthie.
Cape Town, C. G. H. Obs'y	30.33	770.4	30.37	771.4	63.0	17.2	65	sse.	25	11.2		0	2			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.47	748.6	29.50	749.2	81.0	27.2	87	ene.	21.3	9.5			10 k		e.	0	0	covered	M. Marc Dechevreus, S.J.
DANISH.																			
Copenhagen	29.64	752.8	29.69	754.0	59.9	15.5	87	nw.	22	10			10					raining	Oversergent Fischer.
Fanöe	29.88	759.0	29.90	759.5	61.2	16.2	62	nw.			6		7						Overloerer Lauridsen.
Godthaab, Greenland	29.48	748.9	29.53	750.0	54.0	12.2	65	ne.			2		8			0	0		S. Kleinschmidt.
Ivigtut																			
Stykkisholm, Iceland	29.47	748.4	29.51	749.5	51.4	10.8	87	w.			6		2						A. O. Thorlacius.
Thorshavn	29.87	758.6	29.90	759.5	54.1	12.3	90	wsw.	11	5			8						Overloerer Bergh.
Vestervig	29.71	754.5	29.80	756.8	61.7	16.5	68	nw.			7		6						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.69	754.2	30.32	770.2	81.3	27.4	31	calm			0	0	2 k		nw.	0	0	slightly cl'dy	M. Labroue, Director.
Alençon, Normal School	29.78	756.4	30.33	770.4	69.1	20.6	79	n.			2		k	n.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	30.02	762.6	30.28	769.0	66.0	18.9	53	nw.			3		k			0	0		M. Fénéon, Command't.
Avignon, Normal School	30.06	763.5	30.14	765.5	81.0	27.2	43	n.			3		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.74	755.4	30.28	769.2	70.7	21.5	62	sw.			2		8		nw.	0	0	very cloudy.	M. Saillard, Director.
Beauvais, Normal School	30.06	763.4	30.32	770.0	69.4	20.8	49	nw.			2		5		n.	0	0	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.24	742.6	30.12	765.0	62.8	17.1	80	nne.			1		10		ne.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	30.05	763.2	30.30	769.6	78.4	25.8	37	w.			1		5			0	0	cloudy	M. Rayet, Director.
Bourges, Normal School	29.65	753.2	30.19	766.8	73.4	23	52	n.			2		k		n.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.16	766.0	30.40	772.2	70.2	21.2	58	n.			1		1		n.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.32	770.1	30.40	772.1	65.8	18.8	60	w.			1		1		w.	0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.95	760.6	30.26	768.6	70.5	21.4	100	ene.			2		5			0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.76	755.8	30.26	768.6	70.9	21.6	36	n.			3					0	0		M. Grimard, Director.
Clermont-Ferrand Obs'y	28.95	735.4	30.26	768.6	74.7	23.7	45	n.			1	0	5 k			0	0	½ covered	M. Allnard, Director.
Cluny, Normal School	29.45	748.0	30.28	769.0	74.1	23.4	48	nnw.			1		3		nnw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	29.42	747.3	30.28	769.0	65.4	19.1	64	w.			1		2 kn	w.	w.	0	0	slightly cl'dy	Dr. Coulet, Director.
Gap, Normal School	27.64	702.1	30.08	764.1	75.6	24.2	46	s.			2	0	0			0	0		M. Jenugirard, Director.
Gréasque, du Rhone	29.04	737.5	30.11	764.7	81.7	27.6	25	sw.			1		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.46	748.3	30.21	767.3	72.0	22.2	63	nw.			2		k		ese.	0	0		M. Ablard, Director.
Guéret, Normal School	28.71	729.1	30.24	768.1	64.8	18.2	71	nw.			1		0			0	0	clear	M. Rivoire, Director.
Lamballe, Normal School	30.05	763.3	30.32	770.1	72.7	22.6	88	nnw.			3		1		nnw.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.74	755.4	30.29	769.4	74.3	23.5	49	w.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.30	769.5	30.40	772.1	71.6	22.0	72						8		n.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.84	732.6	30.25	768.4	72.9	22.7	41	nne.			1		hz		n.	0	0	hazy	M. André, Director.
Mans, Normal School	30.11	764.7	30.41	772.4	70.0	21.1	62	w.			1		5		w.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.85	758.4	30.12	765.0	80.6	27.0	31	w.			2		1		wsw.	0	0		M. Stephan, Director.
Montlouis	25.15	638.8	29.99	761.8	64.0	17.8	47	n.	13.0	5.8			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.07	763.8	30.19	766.9	83.5	28.6	37	w.			4		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.48	748.7	30.26	768.5	65.8	18.8	69	sw.			1		kn		nw.	0.035	0.9		M. Hasse, Director
Nantes, Observatory	30.23	767.8	30.39	771.9	72.9	22.9	57	nne.			0-2	0	8 k; kn		nne.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.11	764.8	30.21	767.4	80.2	26.8	23	ne.	20.6	9.2			1		n.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.56	547.5			52.9	11.6		e.			1		0			0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.20	741.6	30.23	767.8	75.6	24.2	26	n.			1		2			0	0	slightly cl'dy	M. Tallien.
Puy de Dôme Obs'y, Summit	25.48	647.2			52.0	11.1	82	nnw.			2		8			0	0	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.27	768.9	30.30	769.7	77.0	25.0	89	wnw.			1		2		nne.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.12	765.0	30.33	770.3	73.8	23.2	66	nne.			1		5	n.		0	0	cloudy	M. Moullot, Director.
Rodez, Normal School	28.18	715.7	30.27	768.9	72.9	22.7	41	nw.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.28	769.2	30.33	770.4	70.5	21.4	48	nw.			2		5	sw.		0.28	7.	cloudy	M. Brotier.
Saint Maur, Observatory	30.14	765.5	30.30	769.7	71.2	21.8	53	nw.			2		5		w.	0	0		M. Renou, Director.
Toulouse, Observatory	29.63	752.7	30.37	771.3	82.6	27.8	33	n.			1		2			0	0	slightly cl'dy	M. Baillaud, Director.
Tours	30.17	766.3	30.35	770.8	71.6	22.0	59	w.			1		5	n.	nw.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.87	758.7	30.36	771.2	69.1	20.6	58	n.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.02	762.4	30.31	769.8	69.6	20.9	57	nnw.			2		6		nnw	0	0		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.74	730.1	30.19	766.7	59.4	15.2	82	w.			4		10	w.		0.220	5.6		Prof. Jnedt.
Bamberg	29.28	743.6	30.13	765.2	66.4	19.1	64	nw.			3	0	3 k		wnw.	0.059	1.5		Prof. Dr. Hob.
Berlin	29.84	757.8	30.01	762.2	65.5	18.6	66	sw.			5		9			0.380	9.8		Prof. Dr. Arndt.
Breslau	29.52	749.7	30.05	763.2	61.5	16.4	71	w.			3		10			0.024	0.6	raining	Royal University Obs'y.
Carlsruhe	29.78	756.5	30.22	767.6	60.4	15.8	94	sw.			3		10	nw.		0.413	10.5		Albert Senz.
Cassel	29.36	745.8	30.08	763.9	64.8	18.2	48	nw.			6		10	nw.		0.051	1.3		Dr. H. Möhl.
Frankfort-on-the-Main	29.80	757.0	30.16	766.1	69.8	21.0	50	wnw.			2		5			1.120	28.6		Physical Society.
Friedrichshafen	28.84	732.4	30.25	768.4	64.4	18.0	68	wsw.			2		8	wsw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.88	758.9	29.97	761.3	61.3	16.3	63	wnw.			6		5			1.106	28.1		E. Preller.
Kiel	29.90	759.5	29.92	759.9	61.5	16.4	63	wnw.			8		9			0.520	13.2		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.62	752.3	30.04	762.9	60.1	15.6	85	wsw.			6		9	w.		0.724	18.4	raining	H. Lepplg, Asst.
Magdeburg	29.79	756.7	29.98	761.5	63.5	17.5	79	w.			5	0	8 ks		nnw.	0.264	6.7	raining	Dr. Assmann.
Memel	29.83	757.7	29.88	758.9	71.6	22.0	64	ssw.			3	0	8 k						Issermann.
Munich	28.41	721.5	30.29	769.3	61.0	16.1	61	w.			4		9	w.		0.016	0.4		Dr. C. Lang.
Neufahrwasser	29.80	756.8	29.81	757.2	63.5	17.5	72	s.			4		10			0.098	2.5		A. Lottes.
Neustadt, Palatinate	29.65	753.0	30.18	766.5	69.4	19.1	73	w.			2		3	w.		0.402	10.2	raining	Dicknether.
Stuttgart	29.24	742.8	30.12	765.1	66.6	19.2	70	w.			5		10			0.028	0.7		Prof. Dr. Schoder.
Wustrow	29.83	757.7	29.85	758.3	60.3	15.7	79	nw.			6		10			0.559	14.2		Profs. Brandes & Reimer
GREEK.																			
Athens	29.54	750.2			93.6	34.2		sw.			3.5		0			0	0	clear	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.51	749.6	29.56	750.9	84.8	29.3	74	wsw.	29.0	13.0			6	ssw.		0	0	d. clouds	
Deesa	29.06	738.1	29.53	750.0	79.3	26.3	82	w.	7.7	3.4			10	wnw.		0.05	1.3	overcast	
Bombay	29.61	752.0	29.64	753.0	79.7	26.5	88	w.	13.0	5.8			10		wnw.	0.37	9.4	overcast	
Poona, Yarrowda	27.79	705.8	29.65	753.0	74.8	23.8	75	wsw.	16.0	7.2			10		wnw.	0.04	1.0	drizzling	
Trichinopoly	29.44	747.7	29.72	754.8	85.6	29.8	49	nw.	6.0	2.7			10			0	0	overcast	
Bellary	28.15	714.9	29.58	751.2	90.0	32.2	42	w.	14.0	6.3			6	s.		0	0	d. clouds	
Belgaum	27.15	689.6	29.69	754.2	71.8	22.1	82	w.	8.0	3.6			8	e.	sw.	0.02	0.5	hazy	
Lahore	28.82	731.9	29.55	750.6	81.0	27.2	89	ne.	0.9	0.4			10					drizzling	
Roorkee	28.65	727.6	29.52	749.9	86.0	30.0	79	calm	1.6	0.7			9			0	0		
Agra	28.96	735.6	29.52	749.8	82.2	27.9	91	ne.	4.3	1.9			6		e.	0.78	19.8	d. clouds	
Nagpur	28.49	723.6	29.53	749.9	77.1	25.1	96	calm	3.4	1.5			10		s.	0.89	22.6	overcast	
Jubbulpore	28.16	715.3	29.50	749.2	86.8	27.1	81	se.	2.2	1.0			10			0.76	19.3	raining	
Lucknow	29.12	739.8	29.49	749.1	88.6	31.4	69	calm	2.3	1.0			10	ssw.		0	0	overcast	
Allahabad	29.15	740.3	29.45	747.9	91.4	33.0	63	e.	2.8	1.2			0			0	0	blue sky	
Patna	29.33	745.0	29.51	749.6	90.6	32.6	62	e.	4.9	2.2			5	e.	e.	0	0	d. clouds	
Hazaribagh	27.54	699.4	29.52	749.7	79.6	26.4	79	e.	7.4	3.3			9		e.	0.08	2.0	thund'r st'm	
Cuttack	29.36	745.8	29.44	747.8	82.2	27.9	81	ne.	4.3	1.9			9			0.45	11.4	showery	
Calcutta, Alipore	29.48	748.7	29.50	749.2	85.3	30.2	72	se.	8.0	3.6			3		e.	0.06	1.5	d. clouds	
Dhubri	29.41	747.1	29.53	750.0	87.7	30.9	78	calm	5.4	2.4			8		sw.	0	0	d. clouds	
Chittagong	29.51	749.5	29.60	751.8	78.2	25.7	90	se.	3.9	1.7			10			0.11	2.8	drizzling	
Sibsagar	29.20	741.8	29.53	750.0	89.7	32.1	72	e.	1.7	0.8			6	sw.	sw.	0	0	d. clouds	
Jeypore	28.08	713.4	29.50	749.3	84.7	29.3	78	ese.	3.7	1.6			8		e.	0.03	0.8	d. clouds	
Zanzibar, Africa	30.06	763.5			81.6	27.6	58	s.	4.8	2.1			4		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.70	754.3	30.09	764.2	75.6	24.2	51	ne.	3.1	1.4			1			0.331	8.4		Prof. Giovanni Clodig.
Milan	29.60	751.7	30.09	764.2	80.6	27.0	35	ssw.	5.6	2.5			2	nnw.		0.24	0.6		Prof. Schiaparelli.
Padua	29.98	761.6	30.09	764.3	74.7	23.7	23	ene.	3.1	1.4			4			0.701	17.8		Prof. Dott. Lorenzoni.
Moncalieri	29.22	742.1	30.08	764.1	77.2	25.1	35	s.	3.1	1.4			0			0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Genoa	29.87	758.8	30.06	763.5	81.3	27.4	24	nw.	5.6	2.5			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.24	717.4	30.08	764.0	74.3	23.5	31	w.			4		0			0	0		Prof. D. C. Bruno
Pesaro	30.03	762.8	30.08	764.0	75.0	23.9	55	n.	14.3	6.4			1			0	0		Prof. Luigi Guidi.
Florence	29.81	757.1	30.04	763.1	81.3	27.4	37	n.			2		5			0.008	0.2		Prof. Costantino Pitter
Leghorn	29.92	760.0	30.00	762.1	78.4	25.8	60	w.	2.5	1.1			4			0	0		Prof. P. Monte.
Rome	29.88	758.9	30.05	763.2	81.3	27.4	43	wsw.					3	sw.		0	0		Prof. P. S. Ferrari.
Lecce	29.77	756.2	30.01	762.3	81.7	27.6	44	ene.	11.2	5.0			1			0	0		Prof. O. de Giorgi.
Cosenza	29.15	740.3	29.99	761.8	84.7	29.3	72	wnw.	2.5	1.1			1	nw.		0	0		Prof. D. Conti.
Cagliari	29.85	758.3	30.04	763.0	81.3	27.4	24	nw.			4		1			0	0		Prof. A. Pacinotti.
Palermo	29.82	757.5	30.06	763.6	82.4	28.0	41	wsw.	6.3	2.8			1	wsw.		0	0		Prof. G. Ciacciatore.
Syracuse	29.96	760.9	30.00	762.0	83.8	28.8	45	ne.	3.8	1.7			1	wnw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.52	749.9	30.03	762.8	79.2	26.2	62	s.	5.6	2.5			2	ne.		0	0		Prof. T. Brioschi.
Stelvio	22.39	568.8			45.0	7.2	57	ne.			2		10			0	0	covered	Prof. P. F. Denza.
Valdobbia	22.43	569.0			53.4	11.9	59	n.			2		5			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Aomori																			K. Ogawa.
Hakodate	29.72	754.9	29.73	755.1	75.0	23.9	84	sw.	9.0	4.0			8			0	0	overcast	
Hiroshima, I. M. Obs'y					81.0	27.2	74	ssw.	0.3	0.1		0	0			0	0	clear	I. Sogawa.
Kioto	29.70	754.4	29.87	758.7	80.0	26.7	74	s.	1.8	0.8		1cs;ck	0			0	0	clear	S. Endo.
Kochi																			M. Tojima.
Nagasaki, I. M. Obs'y	29.46	748.4	29.66	753.3	79.2	26.2	81	e.	4.8	2.2		9 ck	0			0.150	3.8	cloudy	S. Takehayashi.
Nemuro	29.74	755.4	29.80	756.9	69.5	20.8	86	sw.	12.0	5.4		9	0			0	0	cloudy	
Niigata	29.78	756.4	29.81	757.2	86.9	27.2	80	se.	0.5	0.2		1 ck	0	sw.		c	0	light fog	M. Morita.
Nobiru	29.80	756.9	29.82	757.3	78.4	25.8	91	sse.	9.4	4.2		7 ck	0	w.		0	0	fair	H. Midzushina.
Osaka	29.83	757.7	29.84	757.9	80.0	26.7	82	nne.	1.4	0.6		2 ck;c	0			0	0	clear	
Sapporo					72.0	22.2	96	s.	19.2	8.6			10			0.015	0.4	raining	
Tokei Obs'y, Yeddo	29.80	756.9	29.87	758.7	78.4	25.8	76	s.	15.1	6.7		5 c;cs	0	nnw.		0	0	fair	The Staff.
Wanayama	29.80	756.9	29.85	758.2	81.0	27.2	70	s.	4.9	2.2		2	1		s.	0.221	5.6	fair	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	30.09	764.3	30.28	769.1	71.0	21.7	69	e.	22.5	10.1			9k;ks;n		ese.	0.03	0.8	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.71	602.3	29.94	760.3	59.1	15.4	82	calm	0	0		6 c	2 k		e.	0.030	0.8	foggy	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.03	762.7	59.0	15.0	90	ne.			1	3 c	3 k	sw.		0.180	4.6	cloudy	Prof. M. Leal.
Mazatlan	29.66	753.2	29.91	759.8	79.5	26.4	84	nnw.	0.9	0.4		2 cs	1 ks			inap.	inap.	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.14	587.8	30.17	766.3	54.9	12.7	86	calm	0	0		0	9 kn		e.	0.290	7.4	cloudy	The Staff.
Morelia	24.22	615.1	30.27?	768.0?	60.8	16.0	52	se.			2	5	5	se.	se.	0	0	covered	M. Tena, M. D.
Orizaba	26.09	662.7	30.04	763.0	65.3	18.5	90	s.	1.8	0.8		2	2	se.	e.	0.201	5.1	clear	Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.99	609.3	29.91	759.7	63.3	17.4	86	sw.			1	2 cs	0	e.		0	0	clear	M. Vde Leon, M. E
Puebla, Catholic Institute	23.43	595.2	30.11	764.8	57.2	14.0	88	calm	0	0		0	0			0.213	5.4	clear	Prof. P. Spina.
San Luis Potosi	24.26	616.3	30.27?	767.8?	65.4	18.7	53	e.				3	1	w.	e.	0	0	foggy	G. Barroeta, M. D.
Zacatecas	22.62	574.5	30.23	767.8	59.2	15.1	60	e.	8.4	3.3		2 cs	0			0	0	clear	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.29	769.4	30.29	769.4	64.4	18.0		wnw.			4					0.039	1.0		
Groningen					63.1	17.3										0.051	1.3		
Helder	30.19	766.9	30.19	766.9	61.0	16.1		nw.			4					0	0		
Hellevoetsluis	30.26	768.7	30.26	768.7	64.4	18.0	63	w.			3					0.008	0.2		
Utrecht	30.19	766.8	30.24	768.0	68.5	20.3	60	w.			3		5			0.004	0.1	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.80	757.0	29.87	758.6	59.7	15.4	57	nnw.	25	11			7			0.110	2.8		
Brono	29.76	756.0	29.80	757.0	57.4	14.1	88	n.	4	2			10			0.394	10.0	raining	
Christiania	29.46	748.2	29.60	751.8	63.7	17.6	82	n.	13	6			9			1.539	39.1		
Gjesvær	29.72	754.8	29.74	755.4	56.7	13.7		calm			0		10						
Lodingen	29.76	755.9	29.81	757.1	56.3	13.5	95	w.			4		10			0.370	9.4	rain and fog	
PORTUGUESE.																			
Angra, Azores					71.6	22.0	89	se.	12.5	5.6			0			0	0		Dr. J. A. Sampaio.
Campo Major	29.09	738.9	30.02	762.6	91.6	34.8	25	ese.	9.8	4.4			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.01	762.3	30.10	764.5	74.1	23.4	64	sse.	1.8	0.8			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.72	754.9	30.00	763.5	89.6	32.0	25	ne.	11.9	5.3			0			0	0		The Staff.
Ponta Delgada, Azores	30.28	769.2	30.35	771.0	73.0	22.8	73	e.	1.8	0.8			3			0	0		
Saint Paul de Loando	29.00	759.4	30.10	764.6	67.5	19.7	84	nnw.	0.7	0.3			8			0	0		
Serra da Estrella	25.54	648.8	30.11	764.8	68.9	20.5	43	ese.	11.2	5.0			0			0	0		
RUSSIAN.																			
Akmolinski	28.76	730.6	29.79	756.7	75.0	23.9	40	sw.	11	5		0	4 ks			0.154	3.0		Major K. Lasarew.
Archangel	30.23	767.8	30.25	768.3	81.1	27.3	43	calm	0	0		0	0			0	0		Capt. Sseliwerstow.
Astrakhan	30.04	762.9	29.95	760.8	93.0	33.9	33	se.	2	1		0	7 s			0	0		Capt. Wisganow.
Barnaul	29.39	746.5	29.86	758.5	73.9	23.3	43	ne.	4	2			0			0	0	light clouds.	Meteorological Obs'y.
Dorpat	29.64	752.8	29.86	758.5	87.8	31.0	52	ese.	9	4		2 c	0			0.008	0.2		Observatory.
Ekaterinburg	29.11	739.4	30.04	763.1	68.2	20.1	37	nw.	11	5		ck	7 k;ks			0	0		Metecrological Obs'y.
Irkutsk	28.42	721.9	30.03	762.8	59.5	15.3	77	calm	0	0		0	8 ks;n			0.020	0.5		
Kasan	29.97	761.3	30.23	767.8	78.3	25.7	37	nnw.	4	2		c	9 k			0	0		Observatory.
Kertch	29.85	758.2	29.87	758.7	89.1	31.7	68	calm	0	0		0	3 ks			0	0		Lagorio & Sastyrez.
Kieff	29.24	742.6	29.82	757.5	80.2	30.1	44	sw.	4	2		cs	1 k			0	0		Observatory.
Lugan	29.76	755.8	29.95	760.6	98.2	36.8	13	ese.	18	8			1			0	0		Meteorological Obs'y.
Moscow	29.03	752.7	30.08	763.9	84.0	28.9	33	se.	13	6			0						Meteorological Obs'y.
Nikolaiev	29.85	758.1	29.92	759.9	97.7	36.5	38	nnw.	4	2		0	1 k			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.52	749.9	29.59	751.5	79.0	26.1	85	sw.	4	2		0	2 ks			0	0		Physical Observatory.
St. Petersburg	29.98	761.6	30.00	762.0	85.1	29.5	41	se.	18	8		1 cs	0			0	0	light clouds	Central Physical Obs'y.
Semipalatinsk	29.34	745.3	29.98	761.5	68.0	20.0	53	e.	9	4			0			0	0		Major Lasarew
Tashkend, Laboratory	28.29	718.6	29.77	756.2	80.8	27.1	51	calm	0	0			0			0	0	light clouds	Teich, A. M.
Tiflis	28.54	725.0	29.86	758.5	95.4	35.2	19	calm	0	0		3 c	0			0	0		Physical Observatory.
Vladivostock	29.59	749.3	29.57	751.0	72.3	22.4	83	sw.	4	2		0	8 k						
Warsaw	29.52	749.8	29.95	760.2	69.4	20.8	58	sse.	16	7			9 k;ks						Astronomical Obs'y.
Wilna	29.50	749.3	29.90	759.5	72.7	22.6	78	sw.	2	1			10			0.189	4.8		Berg, Assistant.
Yeniseisk	29.76	755.8	30.04	762.9	64.8	18.2	97	ese.	4	2			8			0.232	5.9		M. O. Marks.
SPANISH.																			
Barcelona, Met. Obs'y	30.07	763.8	30.19	766.8	77.0	25.0	74	se.	4.3	1.9			1 k						Antonio Rave, Director.
Bilbao, Met. Obs'y	30.27	768.9	30.33	770.4	75.7	24.3	63	nw.	1.8	0.8		2	3	se.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.32	693.8	30.16	766.0	73.4	23.0	52	ne.	9.4	4.2			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.01	711.4	30.13	765.3	83.1	28.4	44	e.	4.7	2.1		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y																			Olayo Diaz, Director
Santiago, Met. Obs'y	29.27	743.4	30.13	765.4	79.3	26.3	50	ne.	13.0	5.8		0	0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I																			Benito Vines, S. J.
Manilla, Philippine Islands	29.67	753.5	29.72	755.0	77.7	25.4	90	sw.	26.4	11.8			9 n		sw.	0.417	10.6	heavy rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.94	760.5	30.04	762.9	84.6	29.2	38	e.	39.3	17.6		0	2		e.	0	0		Capt. C. Pajazon, R. N.
San Juan de Porto Rico, W. I	29.98	761.6	30.08	763.9	79.5	26.4	94	calm	0	0		6 s	2 k	s.	s.	0.335	8.5	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.45	748.0	29.58	751.3	83.0	28.3	86	wsw.	1.1	0.5		6 cs	4 ks	e.	sw	0.05	1.3	dull	José L. Yrastorza.
SWEDISH																			
Haparanda	29.83	757.6	29.87	758.6	74.5	23.6	89	s.			4		0			0	0		
Umea	29.73	755.1	29.78	756.4	80.6	27.0	60	sse.			4		6			0.209	5.3		
Hernosand	29.72	754.8	29.77	756.1	66.2	19.0	85	calm			0		10			0.008	0.2		
Stockholm	29.53	750.0	29.71	754.5	77.4	25.2	57	sse.			2		3			0	0		
Wisby	29.67	753.5	29.72	755.0	72.3	22.4	62	sw.			6		7			0.008	0.2		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Sub-series.																			
Upsala	29.56	750.7	29.64	752.9	79.2	26.2	59	ssw.	11.4	5.1			7		sw.	0.004	0.1		S. G. Fineman.
Swiss.																			
Geneva	28.87	733.3	30.26	768.5	68.4	20.2	58	n.			2					0	0		The Observatory
Scottish.																			
Monach Lt			30.08	764.0	58	14.4	94	sw.			6		10					raining	J. Youngclause.
North Unst			29.96	761.0				w.			4		10						
Turkish.																			
Constantinople			29.96	761.0	85.3	29.6	55	ene.	14	6.5			2		ne.	0	0		The Observatory.
Valona			30.14	765.6	83.8	28.8		s.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.82	757.5	86.0	30.0	70	wsw.			1	9 ck	0	sw.		0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	30.19	766.8	30.27	768.8	70.5	21.4	66	e.	2	0.9		0	4 ks			0	0	fair	J. O. Barnes.
Alpena, Michigan	29.53	750.0	30.17	766.3	67	19.4	73	se.	4	1.8		10 cs	0	sw.		0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.08	637.0	29.82	757.4	56	13.3	67	ne.	3	1.3		0	0			0	0	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	26.99	685.5	29.72	754.9	67	19.4	57	se.	4	1.8		2 k	0	s.		0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.96	735.6	30.11	764.8	71.0	21.7	94	se.	6	2.7			10 s			0.21	5.3	cloudy	H. Hall.
Atlantic City, New Jersey	30.21	767.3	30.22	767.6	71.4	21.9	82	ne.	8	3.6		6 c	0	calm		0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.97	761.2	30.16	766.1	75.0	23.9	88	ne.	2	0.9		5 ck	0	sw.		0.50	12.7	fair	John Healy.
Baltimore, Maryland	30.20	767.1	30.25	768.3	73	22.8	82	se.	3	1.3		7ck;cs	hz.	ne.		0	0	fair	Robert Seyboth.
Barnegat, New Jersey	30.22	767.6	30.24	768.1	72.0	22.2	66	e.	14	6.3		4 cs	0	nw.		0	0	fair	G. A. Hill.
Bennett, Fort, Dakota	28.33	719.6	29.87	758.7	61	16.1	90	se.	9	4.0		4 k	0	calm		0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.02	686.3	29.73	755.1	64	17.8	50	w.	7	3.1		0	3 s			0	0	clear	G. W. Davis.
Behring Island, Behring Sea	29.67	753.6	29.69	754.1	46.2	7.9		sw.	13	5.8			fg.			0.01	0.3	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.20	716.3	29.92	760.0	60	15.6	93	se.	10	4.5		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.25	768.3	30.28	769.1	66.0	18.9	84	ne.	6	2.7		0	8 ks		n.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.09	688.1	29.81	757.2	65	18.3	65	w.	1	0.4		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.12	765.0	30.27	768.8	69.0	20.6	66	se.	1	0.4		6 ck	hz.	n.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.91	759.7	29.95	760.7	78.8	26.0	82	s.	4	1.8		0	2 ks		calm	0	0	clear	M. McCarty.
Buffalo, New York	29.46	748.3	30.19	766.8	65.1	18.4	58	ne.	9	4.0		9 c;cs	0	w.		0	0	cloudy	Wm. Finn.
Buford, Fort, Dakota	27.94	709.7	29.88	758.9	61	16.1	78	ne.	9	4.0		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.98	761.5	30.26	768.6	63.7	17.6	74	e.	3	1.3		0	0			0	0	clear	G. O. Schaeffer.
Cairo, Illinois	29.61	752.1	30.00	762.0	73.8	23.2	92	sw.	8	3.6			10 s		sw.	0.74	18.8	threatening	W. H. Ray.
Campo, California																			W. H. Clendenon
Camp Thomas, Arizona	27.20	690.9	29.79	756.7	72.5	22.5	61	se.			1	4 ck	0	w.		0	0	fair	J. T. Fitzgerald.
Cape Henry, Virginia	30.15	765.8	30.17	766.3	76	24.4	82	e.	12	5.4			10 s		w.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.19	766.8	30.23	767.8	72.8	22.7	71	e.	14	6.3		4 c	0	e.		0	0	fair	W. E. Smith.
Cape Mendocino	29.39	746.5						n.	4	1.8			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	80	26.7	82	e.	12	5.4		0	7 ks		e.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.13	739.9	29.92	760.0	70.7	21.5	90	se.	7	3.1			10 n		se.	1.68	42.7	light rain	L. A. Welsh.
Charleston, S. Carolina	30.07	763.8	30.12	765.0	81	27.2	88	sw.	1	0.4		0	6 ks		sw.	0.08	2.0	fair	J. H. Smith.
Charlotte, N. Carolina	29.27	743.4	30.10	764.5	74.0	23.3	84	sw.	2	0.9		10 cs	hz.	w.		2.68	52.8	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.30	744.2	30.10	764.5	74.0	23.3	87	s.	2	0.9		2 cs	7 k		sw.	0.03	0.8	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.10	612.1	29.79	756.7	59.3	15.2	48	nw.	10	4.5		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.27	743.4	29.96	761.0	67.9	19.9	90	e.	10	4.5			10 n			0.91	23.1	light rain	J. Mitchell.
Chincoteague, Virginia	30.18	766.6	30.20	767.1	75	23.9	90	e.	9	4.0		0	0			0.07	1.8	clear	V. P. Temple.
Cincinnati, Ohio	29.41	747.0	30.05	763.3	76.0	24.4	85	se.	4	1.8			10 n		se.	0.22	5.6	light rain	J. F. Harrold.
Cleveland, Ohio	29.38	746.2	30.10	764.5	68	20.0	63	se.	10	4.5		5 c	0	w.		0	0	fair	J. B. Newlin.
Coleman City, Texas	28.21	716.5	29.97	761.2	70	21.1	97	calm	0	0		0	fg			0.13	3.3	light fog	L. Dorman.
Columbus, Ohio	29.22	742.2	30.05	763.3	70	21.1	71	e.	4	1.8			10 s			0.02	0.5	cloudy	D. Cuthbertson.
Concho, Texas	28.68	713.2	29.95	761.0	71	21.7	97	calm	0	0		0	0			0.08	2.0	clear	W. W. McConihe.
Custer, Fort, Montana	26.68	677.7	29.70	754.4	63	17.2	58	calm	0	0		0	3 s		calm	0	0	clear	V. Verge.
Davenport, Iowa	29.28	743.7	29.91	759.7	70	21.1	93	e.	1	0.4			10s;fg		calm	1.27	32.3	cloudy	R. R. Martin.
Davis, Fort, Texas	25.22	640.6	29.86	758.4	68	20.0	63	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.17	715.5	29.88	758.9	56.8	13.8	84	calm	0	0		0	2 k			0	0	clear	H. Clifford.
Deadwood, Dakota	25.37	644.4	29.79	756.7	60.0	15.6	84	sw.	4	1.8		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					75	23.9	56	s.	2	0.9		0	0			0.08	2.0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.20	767.1	30.22	767.6	68	20.0	90	ne.	15	6.7		6 c	0	w.		0	0	fair	A. Schneider.
Denison, Texas	29.18	741.2	29.96	761.0	73.3	22.9	90	calm	0	0		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.78	629.4	29.79	756.7	63.0	17.2	63	s.	4	1.8		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.09	738.9	29.97	761.2	64	17.8	90	n.	3	1.3			10 s		n.	0.02	0.5	cloudy	F. W. Conrad.
Detroit, Michigan	29.49	746.7	30.09	764.3	69.3	20.7	78	ne.	6	2.7			10 s			0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.41	695.2	29.91	759.7	64.0	17.8	84	se.	2	0.9		0	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.25	742.9	29.91	760.5	67	19.4	93	e.	2	0.9			fg.			0.29	7.4	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.36	745.7	30.08	764.0	55	12.8	80	ne.	8	3.6			10 s		ne.	0.01	0.3	cloudy	N. B. Conger.
Eagle Pass, Texas	29.20	741.7	29.99	761.7	75.0	23.9	90	calm	0	0		0	0			0.26	6.6	clear	F. Belford.
Eagle Rock, Idaho	25.24	641.1	29.79	756.7	55	12.8	60	s.	12	5.4		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.23	767.8	30.29	769.4	59.0	15.0	81	ne.	5	2.2		6 c;ck	0	w.		0.06	1.5	fair	D. C. Murphy.
Elliott, Fort, Texas	27.24	691.9	29.88	758.9	64	17.8	58	e.	8	3.6		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.28	667.5	29.88	758.9	66	18.9	70	e.	3	1.3		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.43	747.5	30.14	765.5	71	21.7	53	se.	8	3.6		5 ck	0			0	0	fair	Peter Wood.
Escanaba, Michigan	29.48	748.8	30.12	765.0	64	17.8	84	n.	6	2.7			10 s		se.	0	0	cloudy	C. Dill.
Fredericksburg, Texas	28.27	718.0	29.97	761.2	73	22.8	84	s.	3	1.3		8 k	0	sw.		0.85	21.6	cloudy	H. S. Miles.
Galveston, Texas	29.95	760.7	30.00	762.0	82	27.8	80	s.	12	5.4		0	5 k		sw.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.40	746.7	30.05	763.3	64.0	17.8	87	e.	6	2.7			10 n			0.19	4.8	light rain	W. A. Reid.
Grant, Fort, Arizona	25.27	641.8	29.84	757.9	71.4	21.9	50	ne.	4	1.8			10 s			0	0	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.10	764.5	30.12	765.0	79.0	26.1	82	nw.	4	1.8		6 ck	hz.	w.		0	0	fair	R. M. Crawford.
Helena, Montana	25.70	652.8	29.76	755.9	64	17.8	50	calm	0	0		6 k	0	w.		0	0	fair	S. Wheaton.
Henrietta, Texas	29.01	736.8	29.99	761.7	76.0	24.4	82	calm	0	0		0	0			0.16	4.1	clear	J. W. Byram.
Huron, Dakota	28.65	727.7	29.97	761.2	56.2	13.4	83	e.	3	1.3		5 k	0	se.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.21	741.9	29.98	761.5	72	22.2	90	s.	4	1.8			10 n		s.	1.29	32.8	light rain	O. Schutze
Indianola, Texas	29.96	761.0	29.99	761.7	80.0	26.7	88	s.	8	3.6		2 cs	2 ks	nw.	s.	c	0	fair	J. A. Reed.
Jacksboro, Texas	28.83	732.3	29.95	760.7	72	22.2	97	s.	1	0.4		0	0			0.22	5.6	clear	J. P. Sherry.
Jacksonville, Florida	30.08	764.0	30.12	765.0	81	27.2	79	se.	5	2.2		2 cs	0			inap.	inap.	clear	J. W. Smith.
Keogh, Fort, Montana	27.34	694.4	29.75	755.6	70	21.1	66	se.	3	1.3		5 c	0			0	0	fair	W. B. Stockman.
Keokuk, Iowa	29.26	743.2	29.89	759.2	71.6	21.7	94	nw.	2	0.9			10 s			0.37	9.4	cloudy	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	84.0	28.9	72	e.	7	3.1		0	2 k			0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.14	765.5	30.16	766.1	76.0	24.4	90	e.	10	4.5		0	7 k		sw.	1.09	27.7	fair	E. A. Beals.
Knoxville, Tennessee	29.11	739.4	30.11	764.8	70.2	21.2	93	s.	2	0.9			10 s		sw.	inap.	inap.	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.20	741.7	29.95	760.7	63	17.2	84	n.	4	1.8			10 s		n.	1.05	26.7	cloudy	S. C. Emery
La Mesilla, New Mexico	26.15	664.2	29.89	759.2	64.5	18.1	67	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.12	739.6	29.98	761.5	68	20.0	90	nw.	5	2.2			10 s		nw.	0.26	6.6	cloudy	A. W. Browne.
Lewiston, Idaho	29.03	737.3	29.84	757.9	70.0	21.1	53	se.	4	1.8		0	2 s			0	0	clear	W. Bell.
Little Rock, Arkansas	29.68	753.9	29.99	761.7	74	23.3	90	sw.	4	1.8		0	9 s			0.52	13.2	cloudy	W. U. Simons.
Los Angeles, California	29.58	751.3	29.97	761.2	58.3	14.6	93	e.	2	0.9		0	5 s;fg			0	0	fair	E. F. Kubel.
Louisville, Kentucky	29.44	747.8	29.99	761.7	73	22.8	97	se.	3	1.3			10 n			0.91	23.1	light rain	H. C. Smyth.
Lynchburg, Virginia	29.47	748.5	30.14	765.5	73.0	22.8	87	ne.	5	2.2			10 n		e.	0.61	15.5	light rain	W. R. Bushby.
Macon, Fort, North Carolina	30.12	765.0	30.13	765.3	77	25.0	76	nw.	6	2.7		4 cs	0	nw.		0	0	fair	F. P. Chaffee.
Madison, Wisconsin	28.99	736.3	29.97	761.2	65	18.3	93	e.	10	4.5			10 n			0.52	13.2	light rain	C. A. Shaw.
Maginnis, Fort, Montana	25.50	647.7			62	16.7	68	n.	4	1.8		0	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.80	706.1	30.00	762.0	71	21.7	90	se.	1	0.4		5 k	0			0.23	5.8	fair	J. E. Thatcher.
Marquette, Michigan	29.45	748.0	30.16	766.1	59	15.0	70	calm	0	0		4 ck	5 s	w.	w.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.68	753.9	30.01	762.2	75	23.9	90	s.	8	3.6			10 s		s.	0.45	11.4	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.26	743.2	29.99	761.7	64	17.8	100	e.	24	10.7			10 n			0.65	16.5	light rain	W. Line.

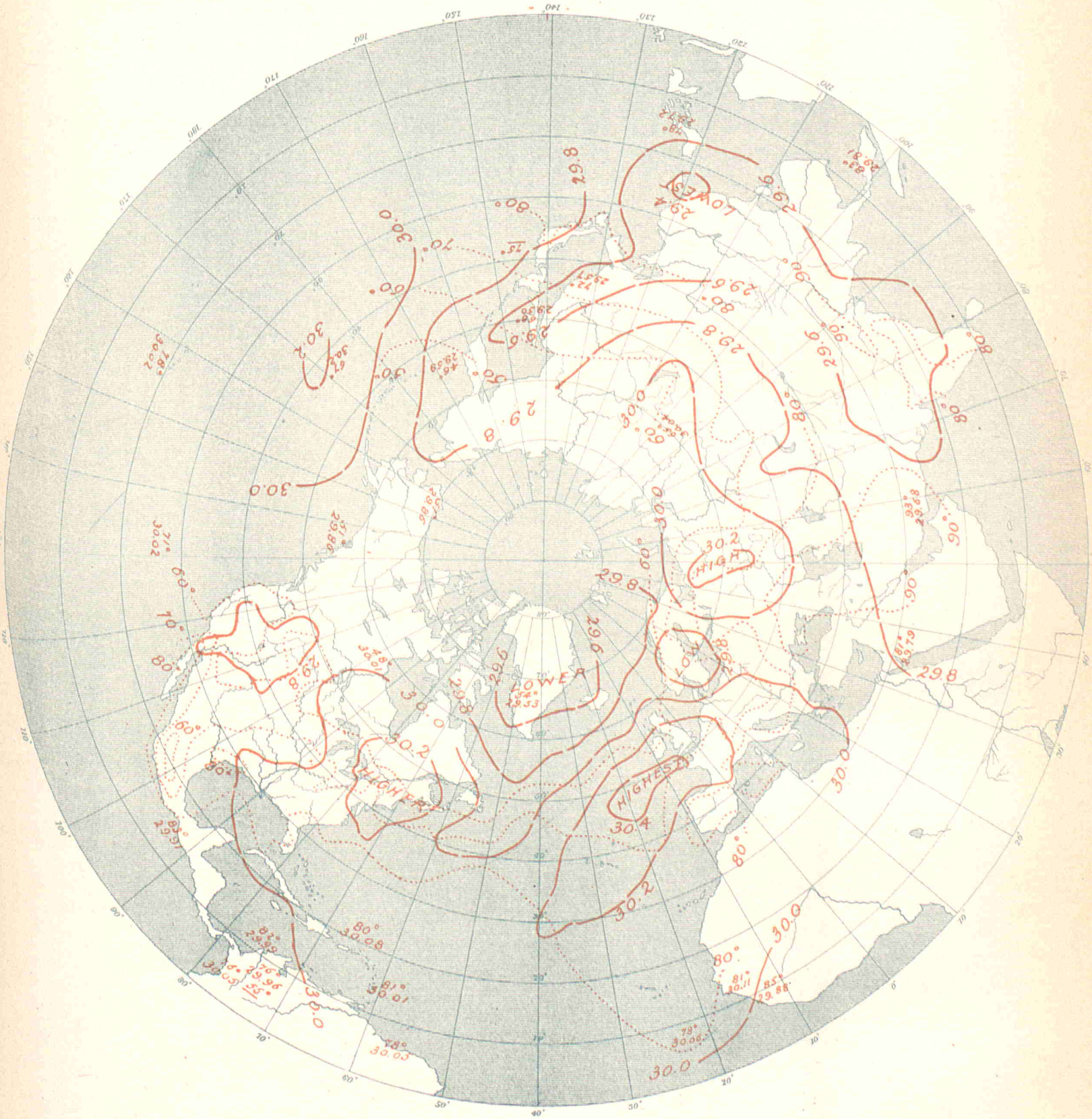
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.61	675.9	29.80	756.9	57	13.9	64	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.05	763.3	30.09	764.3	75	23.9	94	n.	3	1.3	.....	9 cs	0	.....	.....	1.54	39.1	cloudy	C. A. Read.
Montgomery, Alabama	29.86	758.4	30.08	764.0	74.2	23.4	93	se.	1	0.4	.....	0	9 s	.....	.....	inap.	inap.	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.07	738.4	30.03	762.7	59	15.0	87	calm	0	0	.....	0	6 s	.....	.....	0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.13	739.9	30.13	765.3	73.5	23.1	72	se.	3	1.3	.....	2 cs	6 s	.....	.....	0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.15	613.4	30.22	767.6	46.0	7.8	80	ne.	2	0.9	.....	0	3 k	.....	ne.	0.02	0.5	clear	J. G. Linsley.
Nashville, Tennessee	29.50	749.3	30.02	762.5	74.0	23.3	90	calm	0	0	.....	.....	10 ks	.....	w.	0.20	5.1	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.16	766.1	30.27	768.8	67	19.4	78	se.	4	1.8	.....	3 ck	hz.	nw.	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.25	768.3	30.30	769.6	72	22.2	66	n.	2	0.9	.....	7 k	0	n.	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.05	763.3	78.5	25.8	87	calm	0	0	.....	1 c	sk.	.....	.....	0.07	1.8	clear	L. Dunne.
Newport, Rhode Island	30.24	768.1	30.29	769.4	67.0	19.4	70	ne.	3	1.3	.....	.....	10 ks	.....	ne.	0	0	cloudy	W. McGillivray.
New York, New York	30.10	764.5	30.27	768.8	72	22.2	71	e.	9	4.0	.....	3 cs	0	nw.	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.12	765.0	30.15	765.8	76	24.4	85	e.	5	2.2	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	H. L. Kemp.
North Platte, Nebraska	27.06	687.3	29.86	758.4	65.6	18.7	88	se.	18	8.0	.....	0	2 s	.....	.....	0.11	2.8	clear	E. F. Brady.
Olympia, Washington Ty.	29.87	758.7	29.91	759.7	57.0	13.9	80	n.	3	1.3	.....	.....	10 s	.....	w.	0.14	3.6	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.84	757.9	29.86	758.4	50.5	10.3	93	ssw.	12	5.4	.....	1 c	5 s	.....	sw.	0	0	fair	P. H. Ray.
Omaha, Nebraska	29.87	733.3	30.00	762.0	63.0	17.2	84	nw.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	A. Pollak.
Oswego, New York	29.90	759.4	30.22	767.6	70.0	21.1	68	se.	6	2.7	.....	4 c	0	w.	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.48	748.8	30.02	762.5	76.5	24.7	94	sw.	8	3.6	.....	.....	10 ks	.....	sw.	0.05	1.3	cloudy	L. M. Pindell.
Pensacola, Florida	30.05	763.3	30.08	764.0	76.2	24.6	97	s.	4	1.8	.....	7 cs	2 s	.....	.....	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	30.16	766.1	30.26	768.6	72	22.2	82	ne.	5	2.2	.....	4 c	2 k;hz	n.	ne.	0	0	fair	T. F. Townsend.
Pike's Peak, Colorado	18.04	458.2	29.82	757.4	35	1.7	61	nw.	8	3.6	.....	0	hz.	.....	.....	inap.	inap.	clear	L. M. Dey.
Pioche, Nevada	24.07	611.4	29.80	756.9	63.0	17.6	27	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.33	745.0	30.12	765.0	67.8	19.9	70	ne.	5	2.2	.....	.....	10 ks	.....	sw.	0	0	cloudy	J. H. Bryce.
Poplar River, Montana	27.76	705.1	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.05	763.3	30.06	763.5	79.1	26.2	91	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. Hermann.
Port Huron, Michigan	29.44	747.8	30.10	764.5	65.8	18.8	69	e.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	W. O. Bailey.
Portland, Maine	30.22	767.6	30.27	768.8	67	19.4	78	n.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	W. W. Eichelberger.
Portland, Oregon	29.85	758.2	29.92	760.0	59.0	15.0	93	nw.	2	0.9	.....	.....	10 s	.....	nw.	0.33	8.4	cloudy	M. L. Hearne.
Prescott, Arizona	24.83	630.7	29.82	757.4	58	14.4	58	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.25	768.3	30.28	769.1	69.0	20.6	70	ne.	6	2.7	.....	2 cs	0	nw.	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.05	763.3	30.06	763.5	75.5	24.2	88	e.	7	3.1	.....	10 c	0	calm	.....	0.29	7.4	cloudy	W. J. Evans.
Red Bluff, California	29.50	749.3	29.86	758.4	65.3	18.5	64	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.75	755.6	29.98	761.5	82	27.8	74	se.	4	1.8	.....	1 c	0	calm	.....	0	0	clear	P. M. Wilson.
Rochester, New York	29.58	751.3	30.23	767.8	60	15.6	81	calm	0	0	.....	7 c	sk.	.....	.....	0	0	fair	E. W. McGann.
Roseburg, Oregon	29.36	745.7	29.90	759.4	63	17.2	78	calm	0	0	.....	.....	10 ks	.....	.....	0	0	cloudy	J. J. Naury.
Sacramento, California	29.79	756.7	29.86	758.4	60.3	15.7	87	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.36	745.7	29.94	760.5	73.0	22.8	94	sw.	4	1.8	.....	2 c	2 s	w.	sw.	1.14	29.0	clearing	J. H. Webber.
St. Paul, Minnesota	29.11	739.4	29.95	760.7	61	16.1	93	ne.	3	1.3	.....	.....	10 s	.....	ne.	0.40	10.2	cloudy	P. F. Lyons
St. Vincent, Minnesota	29.10	741.4	30.03	762.7	56	13.3	93	se.	5	2.2	.....	5ck;cs	0	.....	.....	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.56	649.2	29.74	755.4	69	20.6	37	se.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	J. Craig.
San Antonio, Texas	29.29	744.0	29.97	761.2	77.5	25.3	97	s.	2	0.9	.....	8 c	0	se.	.....	0.01	0.3	cloudy	T. J. Kenan.
San Diego, California	29.85	758.2	29.92	760.0	64.3	17.9	77	ne.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.40	746.7	30.06	763.5	69.3	20.7	76	se.	10	4.5	.....	4 c	5 s	s.	.....	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.23	767.8	30.26	768.6	73.5	23.1	82	e.	10	4.5	.....	1 k	0	e.	.....	0	0	clear	B. A. Blundon.
San Francisco, California	29.88	758.9	29.98	760.7	56	13.3	99	sw.	8	3.6	.....	.....	fg.	.....	.....	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.37	593.6	29.87	758.7	59	15.0	55	ne.	7	3.1	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.04	763.0	30.13	765.3	84.5	29.2	74	s.	1	0.4	.....	0	2 k	.....	sw.	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.25	666.7	29.76	755.9	60	15.6	52	w.	6	2.7	.....	7 k	0	w.	.....	0	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.77	756.1	30.00	762.0	75	23.9	90	w.	4	1.8	.....	.....	10 s	.....	w.	0.24	6.1	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.74	730.0	29.94	760.5	69.5	20.8	88	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Silver City, New Mexico	24.36	618.7	29.82	757.4	57	13.9	72	nw.	2	0.9	.....	0	2 k	.....	nw.	0.17	4.3	clear	J. B. Wallace.
Sitka, Alaska	29.80	756.9	29.86	758.4	51	10.6	90	calm	0	0	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	J. J. McLean.
Smith, Fort, Arkansas	29.50	749.3	29.96	761.0	74.5	23.6	90	calm	0	0	.....	.....	10 s	.....	w.	0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.12	765.0	30.15	765.8	80	26.7	77	n.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.87	707.9	29.85	758.2	62	16.7	67	nw.	2	0.9	.....	10 k	0	s.	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.27	743.4	29.93	760.2	72.5	22.5	94	calm	0	0	.....	.....	10s;fg	.....	w.	0.26	6.6	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.16	766.1	30.29	769.4	71.4	21.9	66	s.	1	0.4	.....	2 k	0	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo.	28.56	725.4	29.95	760.7	72	22.2	90	se.	6	2.7	.....	0	7 k	.....	s.	0.17	4.3	fair	J. B. Marbury.
Starkville, Miss.	29.60	751.8	30.06	763.5	76	24.4	85	s.	7	3.1	.....	.....	fg.	.....	.....	0.95	24.1	dense fog	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.14	714.7	29.92	760.0	62	16.7	90	se.	6	2.7	.....	0	3 ks	.....	.....	0	0	clear	W. Burrows
Stockton, Fort, Texas	27.01	686.0	29.95	760.7	64.0	17.8	90	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thatcher's Island, Mass.	30.23	767.8	30.28	769.1	67.5	19.7	84	n.	1	0.4	.....	0	0	.....	.....	inap.	inap.	clear	G. Liebmann.
Toledo, Ohio	29.47	749.0	30.04	763.0	71	21.7	71	s.	4	1.8	.....	3 cs	6 s	w.	w.	0	0	threatening	A. Buell.
Tucson, Arizona	27.50	698.5	29.82	757.4	77	25.0	62	s.	3	1.3	.....	5 ck	0	.....	.....	0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.54	750.3	29.90	759.4	62.5	16.9	74	se.	3	1.3	.....	2 c	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.02	737.1	29.90	761.0	75	23.9	90	se.	2	0.9	.....	.....	10 ks	.....	se.	0.31	7.9	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	66	18.9	44	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.80	756.9	30.04	763.0	74	23.3	97	se.	6	2.7	.....	3 ck	6 s	.....	.....	0.09	2.3	cloudy	H. P. Brisbane.
Visalia, California	29.51	749.5	29.88	758.9	63	17.2	73	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washakie, Fort, Wyoming	24.48	621.8	29.82	757.4	52.0	11.1	61	e.	2	0.9	.....	1 k	0	w.	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.12	765.0	30.23	767.8	72.8	22.7	83	e.	4	1.8	.....	4 c	0	nw.	.....	0	0	fair	B. M. Purssell.
West Las Animas, Colorado	26.03	661.2	29.79	756.7	61.9	16.6	62	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. W. Brandeaburg.
Williamsport, Pa.	29.64	752.8	30.22	767.6	63	17.2	78	calm	0	0	.....	7 cs	fg.	nw.	.....	0	0	fair	B. F. Hough.
Wilmington, N. Carolina	30.09	764.3	30.14	765.5	75	23.9	85	calm	0	0	.....	3 c;k	0	.....	.....	0.51	13.0	clear	A. T. Sherwood.
Winnemucca, Nevada	25.54	648.7	29.76	755.9	62	16.7	35	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.72	729.5	29.99	761.7	58	14.4	70	ne.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.62	752.3	29.76	755.9	82.3	27.9	44	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	54.5	12.5	77	sw.	1	0.4	.....	6 k	4 s	n.	s.	0.12	3.0	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I.	30.00	762.0	30.01	762.2	81	27.2	95	e.	.....	.....	.....	5 c	5 ks	e	.....	1.50	38.1	fair	J. A. Racker.
Buenaventura, U. S. C.	30.02	762.5	30.05	763.3	76	24.4	90	calm	0	0	.....	.....	10 ks	.....	calm	1.50	38.1	cloudy	J. I. Plume.
Kingston, Jamaica, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	74	23.3	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa	29.88	758.9	29.96	761.0	79	26.1	78	e.	15	6.7	.....	2 ck	6 ks	ne.	e.	0	0	cloudy	F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	82	se.	.....	.....	2	3 c	0	.....	.....	0.160	4.1	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.40	746.7	29.96	761.0	76	24.4	89	n.	.....	.....	1	.....	10 ks	.....	n.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	96	ne.	.....	.....	1	2 cs	0	se.	.....	0	0	fair	Earl Flint.
Santiago de Cuba, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Robert Mason.
York Factory, B. A.	29.85	758.2	30.01	762.2	48.0	8.9	92	n.	12	5.4	.....	.....	10 s	.....	n.	0.10	2.5	raining	Portesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S Alert, N. 6° 20′, W. 22° 49′	30.06	763.5	78	25.6	80	ssw.			3		9							d. clouds.
H. M. S. Amethyst, Porto Bello Bay, Brazil	30.25	768.3	50	10.0	93	se.			1		4	se.						d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.95	760.7	80	26.7		n.			3-4		1							blue sky.
H. M. S. Bacchante, N. 40° 46′ W. 9° 40′	30.15	765.8	72	22.2	75	n.			2		0					2	n.	blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.39	771.9	61	16.1		se.			2		2							d. clouds.
H. M. S. Champion, N. 39° 15′ E. 143° 15′			75	23.9	100	wsw.			2		8	calm				2	s.	misty.
H. M. S. Comus, N. 48° 40′, W. 129° 30′	29.90	759.4	56	13.3	87	wnw.			1-2		4					2	sw.	d. clouds.
H. M. S. Diamond, S. 9° 04′, E. 159° 07′	29.91	759.7	79	26.1	90	calm			0		1							blue sky.
H. M. S. Dido, N. 14° 50′, W. 61° 30′	30.04	763.0	86	26.7		e.			1-3									showery.
H. M. Dock Yard, Bermuda, W. I.	30.05	763.3	79	26.1	86	wnw.			3-4		7	wnw.						squally.
H. M. S. Druid, N. 45° 35′, W. 36° 40′	30.10	764.5	69	20.6	92	sse.			5-6		3	sw.				3	sse.	misty.
H. M. S. Dwarf, S. 27° 25′, W. 48° 34′	30.23	767.8	49.5	9.7	93	sse.			1-2		8					1	s.	d. clouds.
H. M. S. Eclipse, N. 28° 10′, E. 33° 20′	29.69	754.1	81	27.2		wnw.			1-2		2							d. clouds.
H. M. S. Emerald, N. 26° 50′, W. 34° 45′	30.19	766.8	77	25.0	95	nne.			3		4	nne.				2	ne	d. clouds.
H. M. S. Espiegle, S 16° 59′, E. 167° 30′	29.99	761.7	74	23.3	85	ese.			4-5		4	w.				3	ese.	d. clouds.
H. M. S. Fantome, N. 16° 24′, W. 75° 13′	29.97	761.2	82	27.8		ene.			3		9	ene.				4	ene.	d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.03	762.7	58.5	14.7	94	calm			0		9							d. clouds.
H. M. S. Garnet, N. 30° 26′, W. 35° 40′	30.22	767.6	79	26.1	78	calm			0		3							blue sky.
H. M. S. Griffon, N. 49° 34 W. 58° 00′	30.05	763.3	56	13.3	80	s.			1		3							d. clouds.
H. M. S. Iron Duke, N. 49° 02′, E. 140° 19′	29.50	749.3	68	20.0	84	calm			0		10							overcast.
H. M. S. Kingfisher, N. 48° 10′, W. 124° 50′	29.90	759.4	55	12.8		calm			0		2							d. clouds.
H. M. S. Lark. S. 1° 28′, E. 161° 59′	29.94	760.5	77.3	25.2	93	calm			0		7							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.95	760.7	53.5	11.9		n.			1		10							showery.
H. M. S. Magpie, N. 34° 55′, E. 128° 04′	29.65	753.1	81.8	27.7	83	calm			0		8	s.						d. clouds.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.89	759.2	79.5	26.4	71	nw.			2		3					1	nw.	d. clouds.
H. M. S. Nelson, S. 35° 16′ E. 174° 08′	29.85	758.2	56	13.3	68	sse.			1		2	sw.						d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	30.15	765.8	60.5	15.8	70	nne.			3		5	nne.						d. clouds.
H. M. S. Orontes, N. 35° 24′ E. 17° 00′	30.08	764.0	79.5	26.4	88	wnw.			3		0					2	wnw.	blue sky.
H. M. S. Pegasus, N. 5° 24′. E. 100° 20′	29.81	757.2	82.5	28.1	87	e.			1		10							d. clouds.
H. M. S. Rambler, James Bay, Saint Helena Is'd	30.20	767.1	68	20.0	94	ene.			3		5	ese.				4	ese.	d. clouds.
H. M. S. Rocket, Vancouver Island, B. C.	29.89	759.2	56	13.3	93	calm			0		2							d. clouds.
H. M. S. Sappho, N. 15° 00′ W. 152° 00′	29.87	758.7	76.5	24.7		ne.			5-6		6	ne.				6	ne.	squally.
H. M. S. Swiftsure, S. 50° 55′, W. 66° 36′	30.03	762.7	39.5	4.2	91	nnw.			6		10	nnw.				7	nnw	squally.
H. M. S. Sylvia, Montevideo, Uruguay	30.32	770.1	39.7	4.3	98	calm			0		5							d. clouds.
H. M. S. Tenedos, N. 51° 30′ W. 55° 45′	30.01	762.2	53	11.7	86	wnw.			1		10							overcast.
H. M. S. Thetis, S. 7° 55′ W. 79° 28′	30.02	762.5	60	15.6	94	se.			2		7					2	sse.	d. clouds.
H. M. S. Triumph, Sandy Point, Patagonia	29.88	758.9	38	3.3	80	ene.			3-4		8	ene.						d. clouds.
H. M. S. Tyne, N. 39° 39′, W. 22° 24′	30.30	769.6	70	21.1	79	ne.			3-4		10	ene.				3	e.	d. clouds.
H. M. S. Woodlark, Jask Bay, Persia	29.58	751.3	92.5	33.6	70	wsw.			3		0					2	sw.	dense mist.
H. M. S. Zephyr, N. 39° 08′, E. 142° 21′	29.86	758.4	75	23.9	100	ssw.			4		4	ssw.				3	ssw.	blue sky.
Portuguese Naval.																		
Rio Lima, Bulama, Senegambia	30.11	764.9	80.6	27.0	88	calm			0		9			18 h'r	18 h'r			raining.
Tamega, Macao, China	29.47	748.6	89.2	31.8	74	wsw.			4		0							blue sky.
Swedish Naval.																		
Saga, N. 62° 25′, E. 4° 40′	29.87	758.6	55.8	13.2	100	w.			2		7							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.00	762.0	77	25.0	95	n.	2	0.9			8		sse.	0	0			fair.
Navy Yard, Portsmouth, N. H.	30.28	769.1	68	20.0	70	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.79	756.7	79	26.1	82	sw.			3		2		sw.	0	0			clear.
Adams, Mare Island, Cal						sw.			3		2			0	0	sm'h		fair.
Alaska, S. 11° 24′, W. 81° 22′	29.92	760.0	61	16.1	88	w.			2		10			0	0	long	se.	cloudy.
Alliance, N. 42° 20′, W. 70° 34′	30.28	769.1	68	20.0	84	e.			1		2			0	0	sm'h		clear.
Ashuelot, Yokohama, Japan*	29.79	756.7	80	26.7	87	ssw.			3		2		sw.					clear.
Brooklyn, Rio de Janeiro, Brazil	30.21	767.3	68	20.0	100	s.	6	2.7			10		calm	0.32	8.1	sm'h		raining.
Colorado, New York, N. Y.	30.24	768.1	71	21.7	80	se.	2	0.9			8		calm	0	0			hazy.
Constellation, New York, N. Y*	30.22	767.6	73	22.8	76	e.			1		2		e.					fair.
Essex, S. 31° 55′, W. 73° 13′	29.91	759.7	56	13.3	87	wnw.			2		8		nw.			mod.	nw.	fair.
Franklin, Norfolk, Va.	30.16	766.1	75	23.9	90	se.	5	2.2			8		se.	0.06	1.5			fair.
Galena, Gibraltar, Mediterranean	30.19	766.8	74	23.3	95	ese.			2-4		0					mod.		clear.
Independence, Mare Island, Cal	29.95	760.7	58	14.4	?	sw.			6		10			0	0			cloudy.
Iroquois, N. 32° 54′ W. 120° 44′	29.98	761.5	60	15.6	94	nnw.			3		10		nnw.			sm'h	nw.	misty.
Kearsage, Norfolk, Va.	30.15	765.8	76	24.4	95	ene.			1		10		ene.					cloudy.
Lackawanna, Callao, Peru*	29.99	761.7	60	15.6	88	se.			1		8		e.					cloudy.
Lancaster, Genoa, Italy*	30.03	762.7	79	26.1	74	se.			3		0			0	0			clear.
Marion, S. 34° 54′. W. 56° 13′	30.28	769.1	45	7.2	100	calm			0		5		calm			sm'h		fair.
Michigan, Green Bay, Wisconsin	30.07	763.8	63	17.2	89	se.			2		10		se.					raining.
Minnesota, Newport, R. I.	30.40	772.1	68	20.0	74	sse	1	0.4			8							fair.
Monocacy, Che Foo, China	29.59	751.6	82	27.8	79	ssw.			2		10		s.			sm'h		cloudy.
New Hampshire, Newport, R. I.	30.29	769.4	68	20.0	74	ne.			1		10		ne.			sm'h		cloudy.
Nipsic, Tunis, Africa*	30.12	765.0	81	27.2	47	ne.			2		0					sm'h		clear.
Onward, Callao, Peru†	30.13	765.3	57	13.9	100	ese.			1		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.79	756.7	82	27.8	75	n.			1		2		calm					fair.
Passaic, Washington, D. C.	30.26	768.6	72	22.2	?	ne.			1		8		ne.					fair
Pensacola, Panama, Panama*	29.80	756.9	77	25.0	91	nnw.	1.5	0.7			10		nnw.	0.08	2.0	sm'h		cloudy.
Portsmouth, Genoa, Italy*	30.02	762.5	80	26.7	38	ene.			3									fair.
Powhatan, N. 27° 02′ W. 79° 41′	30.10	764.5	79	26.1	91	e.			3		10		e.			sm'h		cloudy.
Quinnebaug, Alexandria, Egypt	29.99	761.7	80	26.7	82	nw.			3		5		nw.			sm'h		fair.
Ranger, Mare Island, Cal	29.93	760.2	59	15.0	88	ssw.			4		10			0	0			overcast.
Richmond, Yokohama, Japan*	29.79	756.7	80	26.7	91	ssw.			4		0			0	0			clear.
Saratoga, Genoa, Italy	30.02	762.5	80	26.7	78	ne.			2		2		n.	0	0	sm'h		fair.
St. Louis, League Island, Pa.	30.44	773.2	70	21.1	90	ne.			2		8		ne.	0	0			fair.
Swatara, Kobe, Japan*	29.69	754.1	83	28.3	79	se.			1		2		s.			sm'h		fair.
Tennessee, N. 40° 20′ W. 70° 25′	30.30	769.6	70	21.1	80	ne.	2	0.9			8			0	0			cloudy.
Vandalia, Portsmouth, N. H*	30.24	768.1	72	22.2	71	calm			0		0							clear.
Wabash, Boston, Mass.	30.27	768.8	68	20.0	79	calm	0	0			8		n.	0	0			cloudy.
Wachusetts, Fort Wrangle, Alaska†	30.08	764.0	52	11.1	93	w.			1		10		calm			sm'h		cloudy.
Wyoming, Port Royal, S. C*	30.09	764.3	81	27.2	78	sw.	3	1.3			5		ssw.	0	0			fair.
Yantic, N. 42° 18′, W. 70° 26′	30.29	769.4	68	20.0	90	ne.			1		2					sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 56° 29′, W. 28° 30′*	29.81	757.2	53	11.7	100	wsw.			3		10		w.	0.01	0.3	1	w.	overcast.
S. S. Grecian, Glasgow, Scotland*	30.15	765.8	61	16.1		sw.			5		10		sw.					cloudy.
S. S. Waldensian, N. 42° 45′, W. 65° 23′*	30.30	769.6	73	22.8		w.			2		2		e.	0	0	light	ne.	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Lord Clive, N. 41° 43′, W. 59° 33′*†	29.97	761.2				nnw.			5		7		nnw.	0	0	mod.	n.	cloudy.
S. S. Lord Gough, N. 51° 09′ W 23° 29′	30.23	767.8	65	18.3		sw.			0		10		sw.	shr's	shr's	mod.	sw.	foggy.
ANCHOR LINE.																		
S. S. Alexandria, Castellamare, Italy	30.05	763.3	79	26.1		w.			3		2		w.	0	0			clear.
S. S. Ethiopia, New York, N. Y.	30.25	768.3	75.5	24.2	78	ne.			3		2		ne.	0	0			clear.
S. S. Galatia, Bombay, India†	29.94	760.5	92	33.3		w.			3		8			0	0			
S. S. Utopia, N. 50° 56′ W. 14° 44′†	30.49	774.4	67	19.4	74	wsw.			3		10		wsw.	mist	mist	sli't	sw.	hazy.
ATLAS LINE.																		
S. S. Ailsa, Santa Marta, U. S. C†	29.99	761.7	82	27.8	87	e.			2		2		ne.	0	0			fair.
S. S. Alene, N. 30° 33′, W. 73° 50′†.	30.29	769.4				s.			1		4		s.	0	0	sm'h		fair.
S. S. Alpin, San Juan, Porto Rico, W. I.	30.08	764.0				ese.			2		5		e.	6 h'r	6 h'r	mod.	se.	
S. S. Alvo, N. 13° 36′, W. 77° 38′	29.95	760.7				ne.			0		4?			1 h'r	1 h'r	r'gh	nne.	cloudy.?
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 37° 38′, W. 180° 56′	30.01	762.2	60	15.6	94	nw.			6		10							raining.
S. Baroda, S. 14° 39′, W. 3° 51′	30.22	767.6	68.2	20.1	74	se.			5		8							d. clouds.
S. S. City of Agra, S. 35° 01′, W. 27° 03′	29.85	758.2	63	17.2	85	nw.			5		9							d. clouds.
Bk. Commewyne N. 37° 20′, W. 52° 44′	29.95	760.7	79.6	26.4	86	sw.			4		5							d. clouds.
May Hulse, N. 27° 34′, W. 37° 46′	30.11	764.8	80.5	26.9	76	nne.			1		2							blue sky.
S. S. Minho, N. 30° 31′, W. 14° 41′	30.08	764.0	73.8	23.2	81	wnw.			2		1							blue sky.
S. Oamaru, S. 14° 58′, W. 7° 05′	30.24	768.1	68.7	20.4	79	ese.			5		6							showery.
S. S. Pole Star, N. 40° 11′, W. 37° 18′	30.19	766.8	76.2	24.6	95	ssw.			3		5							blue sky.
S. S. Rosetta, N. 22° 21′, E. 114° 58′	29.42	747.3	85.5	29.7	91	wsw.			4		4							d. clouds.
CROMWELL LINE.																		
S. S. Hudson, N. 31° 40′ W. 76° 00′†	30.18	766.6	76	24.4		sw.			2		1		sw.	3 h'r	3 h'r	long	s.	fair.
CUNARD LINE.																		
S. S. Bothnia, N. 41° 18′, W. 64° 57′	30.17	766.3	66	18.9	90	ne.			3		7?		n.	0	0		ne.	clear?
S. S. Scythia, New York, N. Y.	30.24	768.1	75	23.9	76	ene.			1		5		calm	0	0			hazy
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Ville de Marseilles, Cadiz, Spain*†	29.95	760.7	81	27.2		e.			7		0			0	0	rg'h	e.	clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Herder, Hamburg, Germany	29.90	760.9	69	20.6		ssw.			4		10		wsw.	4 h'r	4 h'r			covered.
S. S. Silesia, N. 49° 28′, W. 17° 58′†	30.54	775.7	62.2	16.8	94	wsw.			4		10			0	0	4	w.	overcast.
S. S. Westphalia, N. 41° 54′, W. 64° 53′	30.15	765.8	65	18.3	100	nnw.			5		5		nw.	0	0	mod.	n.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Montevideo, Uraguay *†	30.37	771.4	52	11.1		ese.			5		6?		ese.	0	0			clear?
LEYLAND LINE.																		
S. S. Bulgarian, N. 42° 31′, W. 67° 18′*	30.27	768.8				nne.			1		0			0	0			clear.
MALLORY LINE.																		
S. S. Colorado, N. 34° 15′, W. 76° 37′†	30.15	765.8	85	29.4		w.			2		2		w.	3 h'r	3 h'r	mod.	s.	clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 41° 35′, W 62° 40′*†	29.90	759.4	73.4	23.0		nne.			3		4		nne.	2 h'r	2 h'r	mod.	nne.	fair.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 36° 10′, W 70° 30′	29.73	755.1				ne.			5				e.	4 h'r	4 h'r	r'gh	ne.	
S. S. Glenapp, N. 22° 30′, W. 62° —′†	30.22	767.6				e.			3		2		e.	0	0	long		clear.
MORGAN LINE.																		
S. S New York, N. 35° 21′, W. 75° 17′†*.	30.20	767.1	78	25.6		calm			0		5?			2 h'r	2 h'r	small	s.	clear?
NATIONAL LINE.																		
S. S. Canada, N. 49° 21′ W. 10° 11′†	30.42	772.7	63	17.2		w.			1		1		nw.	0	0	sli't	n.	clear.
S. S. Denmark, New York, N. Y	30.20	767.1	72	22.2		ese.			2		5		e.	0	0			fine.
S. S. England, N. 50° 27′. W. 20° 20′.	30.34	770.6				sw.			4		5?		sw.	0	0	sli't	w.	clear?
S. S. Erin, N. 40° 37′, W. 65° 10′	30.19	766.8	59	15.0		ne.			5		5		ne.	0	0	short	ne.	
S. S. The Queen, N. 40° 32′, W. 70° 35′	30.22	767.6	69	20.6		sw.			3		2		sw.	0	0	sm'h		clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 19° 45′, W. 77° 44′†	30.02	762.5	81	27.2		ene.			4		1		ene.	2 h'r	2 h'r	g'ntle	se.	squally.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 25° 36′, W. 79° 20′†	30.10	764.5	84	28.9	91	ese.			4		8		ese.	12 h'r	12 h'r			rainy.
S. S. City of Washington, N. 18° 49′, W. 92° 46′*†	30.00	762.0	79	25.1		ne.			2		5		ene.	0	0	light	ne.	fine.
NORTH GERMAN LLOYD																		
S. S. Graf Bismarck, Kaskets, English Channel	30.39	771.9	68.0	20.0		wnw.			2		2		wnw.	0	0	sm'h	nw.	clear.
S. S. Hermann, N. 49° 26′, W. 13° 31′	30.46	773.7	62.6	17.0		wsw.			5		7		w.	3 h'r	3 h'r	light	w.	cloudy.
S. S. Leipzig, N. 41° 23′, W. 55° 02′	29.90	759.4	71.0	21.7	90	nne.			5		5		nne.	3 h'r	3 h'r	mod.	nne.	fair.
S. S. Neckar, N. 40° 51′, W 69° 00′	30.21	767.3	63.0	17.2		nne.			3		2		n.	0	0	sm'h	nne.	fair.
S. S. Ohio, N. 47° 20′, W. 23° 08′	30.48	774.2				ssw.			2		3		w.	1 h'r	1 h'r	sm'h	wsw.	fair.
S. S. Saller, N. 50° 28′, W. 25° 31′	30.29	769.4	51.8	11.0		sw.			5		10		sw.	3 h'r	3 h'r	r'gh	sw.	foggy.
S. S. Strassburg, N. 40° 46′, W. 61° 01′	30.03	762.7	70	21.1	95	nne.			5		10		nne.	1 h'r	1 h'r	mod.	nne.	covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic N. 42° 45′, W. 170° 43′†	30.31	769.9	67	19.4	90	sw.			3		8		sw.			sm'h		foggy.
S. S. Coptic, N. 24° 51′ E. 119° 18′	29.24	742.7	81.0	27.2	?	w.			4		10		ne.	4 h'r	4 h'r	o	ne.	raining.
S. S. Gaelic, N. 39° 04′, E 159° 07′†	30.15	765.8	68	20.0	90	ssw.			3		4		sw.			sm'h		fine.
S. S. Oceanic, N. 48° 03′, E. 178° 03′*	29.98	761.5	50	10.0	93	ssw.			4		10		sw.			3	sw.	misty.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 33′, W. 77° 50′†	30.21	767.3				ssw.			1		2			0	0	sm'h		clear.
S. S. City of Columbus, Savannah, Ga†	30.13	765.3				s.			1		5?		sse.	0	0			cloudy.?
S. S. Seminole, Off Montauk Light, Long I'd, N. Y.†	30.32	770.1	68	20.0	79	ene.			3		2		ne.	0	0	sm'h	s	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 40° 51′, W. 124° 45′†	29.94	760.5	54.5	12.5	100	calm			0		10		calm	4 h'r	4 h'r	light	nw.	foggy.
S. S. Oregon, San Francisco, Cal.†	29.94	760.5	50	10.0	100	calm			0									misty.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 29′ W. 120° 33′†	29.90	759.4	58	14.4	87	wnw.			2		0					sm'h		clear.
S. S. City of Chester Off Piedras Blancas, Cal.*†	29.90	759.4	55	12.8	100	nw.			2		5		n.			sm'h	nw.	light fog.
S. S. State of California Portland, Oregon †	29.93	760.2	60	15.6	88	n.			2		4		ne.					fair.
S. S. Victoria, N. 46° 50′, W. 124° 38′†	29.98	761.5	55	12.8	93	calm			0		0			0	0			clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	29.89	759.2	47	8.3	85	nw.			3		5?		nw.	0	0			clear.?
S. S. City of New York, Sydney, N. S. W.†	29.91	759.7	55	12.8	68	calm			0		0			0	0			clear.
S. S. City of Rio de Janeiro, Panama, Panama*†	30.10	764.5	78	25.6	86	nw.			1		2		nw.	3 h'r	3 h'r	sm'h		clearing.
S. S. City of Sydney, N. 19° 43′, W. 158° 32′ †	30.02	762.5	78	25.6	86	ene.			5		8		ne.	0	0	mod.	ne.	cloudy.
S. S. City of Tokio, N. 22° 26′, E. 115° 41′†	29.44	747.8	84	28.9	91	sw.			0		5		sw.	0	0	r'gh	sw.	fine.
S. S. Costa Rica, Panama, Panama*†	29.96	761.0	78	25.6	95	calm			0		5		n.	2 h'r	2 h'r	sm'h		raining.
S. S. Grenada, N. 14° 39′, W. 94° 02′†	29.91	759.7	83	28.3	?	calm			0		2		se.	0	0			clear.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, N. 36° 00′, W. 71° 07′	29.95	760.7	79	26.1		e.			3		2			0	0	sm'h		
S. S. Bermuda, N. 15° 20′ W. 61° 25′†	30.08	764.0	86	30.0		ene.					5		ene.	rain	rain	gentle	se.	fine.
RED STAR LINE.																		
S. S. Belgenland, Philadelphia, Pa.†	30.39	771.9	92	33.3	85	e.			3		0		e.	0	0			
S. S. Nederland, N. 49° 37′, W. 8° 01′	30.43	772.9	67	19.4	84	w.			2		0			0	0	mod.	nw.	clear.
S. S. Rhynland, N. 49° 32′, W. 18° 45′	30.45	773.4	65	18.3	84	w.			5		7		wsw.	1 h'r	1 h'r	long	w.	fair.
S. S. Switzerland, N. 41° 16′ W. 60° 12′†	30.12	765.0				n.			5		8		n.	3 h'r	3 h'r	long	n.	cloudy.
S. S. Vaderland, Jersey City, N. J.	30.02	762.5	73	22.8	72	ese.			3		8		ese.	0	0			cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
										Upper.	Lower.	Upper.	Lower.					
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. Schiedam, N. 45° 05′, W. 42° 40′*	29.84	757.9	74.7	23.7	91	s			7		8		ssw.	0	0	mod.	w.	hazy.
S. S.W. A Scholten, N. 43° 03′, W. 45° 50′	29.71	754.6	75.5	24.2	93	sw.			5		5		wsw.	4 h'r	4 h'r	mod.	w.	fair.
STATE LINE.																		
S. S. State of Florida, N. 41° 55′, W. 59° 02′	29.93	760.2	63	17.2		nnw.			6		9		nw.	8 h'r	8 h'r	r'gh	nnw.	cloudy.
S. S. State of Georgia, N. 54° 27′, W. 16° 33′†	30.09	764.3	61	16.1		wsw.			6		10		wsw.	0	0	irreg.		
THINGVALLA LINE.																		
S. S. Thingvalla, N. 57° 56′, W. 13° 08′†	30.15	765.8	59.0	15.0		wsw.			3		8		wsw.	0	0	mod.	wnw.	covered.
W. I. & PACIFIC S. S. CO.																		
S. S. Venezuela, N. 43° —′, W. 45° —′*	29.87	758.7	77	25.0	95	ssw.			5		5?		s.			mod		clear.?
WHITE CROSS LINE.																		
S. S. Plantyn, N. 40° 02′ W. 55° 30′	29.90	759 4							4		4		nnw.	0	0	3	nw.	fine.
WHITE STAR LINE.																		
S. S. Adriatic, Liverpool, Eng†	30.37	771.4	64	17.8	94	wnw.			3		10		sw.	2½h'r	2½h'r			drizzling.
S. S. Baltic, N. 41° 06′ W. 59° 21′†	30.08	764.0	66	18.9	84	nne.			4		8		nnw.	1 h'r	1 h'r	4		showery.
S. S. Celtic, N. 49° 25′, W. 30° 56′†	30.19	766.8	62	16.7	94	ssw.			5		10		sw.			mod.	wsw.	foggy.
S. S. Germanic, N. 40° 31′, W. 62° 47′†	30.18	766.6	64	17.8		n.			6		4		nne.			mod.	nne.	d. clouds.
S. S. Republic, New York, N. Y.†	30.41	772.4	76	24.4	91	ese.			3		8		e.	0	0			d. clouds.
WILSON LINE.																		
S. S. Romano, N. 49° 08′, W. 11° 30′	30.41	772.4	60	15.6		w.			3		2		nw.	0	0	mod.	nw.	clear.
WINSOR LINE.																		
S. S. Catherine Whiting, Delaware Bay†	30.26	768.6	70	21.1		ne.								0	0			
MISCELLANEOUS.																		
Bk. Adelaide, N. 36° 17′, W. 75° 25′*†	30.22	767.6	80	26.7		e.			4		8		sse.	14 h'r	14 h'r	light	cross	raining.
Schr. Ajax, N. 23° 46′, W. 80° 28′†	30.12	765.0				e.			1		4		e.	0	0	mod.	e.	fair.
Bk. Alpha, N. 46° 50′, W. 43° 15′†	29.92	760.0	70	21.1		sse.			6		10		sw.	¼ h'r	¼ h'r	mod.	sw.	foggy.
Schr Annie Lewis, N. 28° 54′, W. 89° 30′†	30.19	766.8	85	29.4		calm			0		0			0	0	sm'h		clear.
Bk. Anna Thormann, S. 37° 53′ E. 68° 25′	30.54	775.8	51.6	10.9	73	wsw.			4		10 k		w.	0	0	long	sw.	cloudy.
Bk. Argonaut, N. 46° 18′ W. 46° 27′*†	29.96	761.0				n.			4		10			8 h'r	8 h'r	sm'h	sw.	foggy.
Schr. Asa Eldridge, N. 24° 46′, W. 81° 55′†	30.19	766.8				se.			3		3		sse.	¾h'r	¾h'r	sm'h		hazy.
Bk. Aureola, S. 13° 19′, W. 37° 41′*†	30.30	769.6	82	27.8		ene.			2		8		se.	1 h'r	1 h'r	mod.	s.	cloudy.
Bk. Bremen, N. 58° 57′, W. 8° 15′*†	30.02	762.5				s.			4		8		s.	2 h'r	2 h'r	hv'y	wnw.	cloudy.
S. S. Burswell, Bordeaux, France*†	30.35	770.9	84	28.9		calm			0		2		n.	0	0			very fine.
Bk. Cato, Malmo, Sweden*†	30.15	765.8				nw.			3		3?			0	0			cloudy?
Bk. Celestina, S. 2° 11′, W. 25° 00′*†	30.03	762.7				e.			2		1		e.	0	0	sm'h	e.	
Schr. C. R. Flint, N. 33° 00′, W. 76° 25′†	30.37	771 4	74	23.3		sw.			2		10		s.	8 h'r	8 h'r	mod	ese.	cloudy.
S. Cornelius, N 46° 47′, W. 15° 30′*†.	30.69	779.5	62	16.7		ne.			3		2		ne.	0	0	sm'h	nnw.	clear.
S. S. D. J. Foley, N. 26° 37′, W. 74° 34′†	30.10	764.5				ese.			6		3		e.	0	0	long	ese	hazy.
Schr. Edith R. Seward, N. 29° 07′, W. 73° 45′*†	30.27	768.8	87	30.6		se.			1		3		ese.	0	0	sm'h	se.	clear.
S. E. J. Spicer, New York, N. Y.*†	30.23	767.8	75	23.9		ne.			4		3		nnw.	0	0			
S. Enoch Train, N. 47° 20′, W. 21° 10′*†	30.68	779.3				sw.			2		0			0	0	light	nw.	clear.
Bk. Essex, S. 24° 00′ E. 41° 50′*†	30.20	767.1	*84	28.9		wnw.			1		0			0	0	sm'h	s.	clear.
Bk. Franklin, N. 43° 36′, W. 37° 30′*†.	30.44	773.2				s.			5		0			0	0	sm'h		clear.
S. Grecian, Hong Kong, China*†	29.50	749.3	90	32.2		sw.			4		0			0	0			clear.
Bk. Hattie G. McFarland, N. 41° 30′, W. 69° 15′*†	30.16	766.1	64	17.8		nne.			3		3		n.	0	0	sm'h	e.	clear.
Bk. Heinrich & Tonio, N. 40° 14′, W. 54° 30′*†	30.06	763.5	75	23.9		nnw.			5		3		nnw.	1 h'r	1 h'r	mod	nw.	fair.
Bk. Horace Scudder, Port of Spain W. I†	30.03	762.7	82	27.8		ese.			1		5		ese.	15 h'r	15 h'r			blue sky
S. Ivy, S. 26° 40′, W. 127° 39′†.	30.19	766.8	63	17.2		wsw.			3		10		nw.	12 h'r	12 h'r	cross	ne.	rainy.
S. Ismir, S. 17° 24′, E. 105° 35′†	30.10	764.5				ene.			6		7		ene.	0	0	sm'h	ene.	fair.
Schr. James Slater, N 27° 08′, W. 67° 12′*†	30.50	774.7	86	30.0		nne.			1		2		ene.	0	0	long	se.	fine.
Schr. Jennie N. Huddell, N. 39° 18′, W. 74° 10′†	30.37	771.4	75	23.9	90	ene.			3		2		se.	0	0	short	e.	fair.
Bk. Johanne, N. 46° 27′, W. 50° 40′*†.	29.82	757.4	52	11.1		nnw.			7		5?		n.	0	0	cross	nne.	clear.?
Bg. John Wesley, St. Jago, Cuba W. I†	29.89	759.2				n.			1		1			0	0			clear.
Bk Joseph A. Ropes, S. 31° 40′, W. 25° 58′*†	30.04	763.0	66	18.9	84	wnw.			4		6		wnw.	1 h'r	1 h'r	mod.	nw.	cloudy.
Bkt. Josephine, Havana, Cuba, W. I.†	30.02	762.5	78	25.6	82	ese.			2		0			3 h'r	3 h'r			hazy.
Bkt. Kryolith, N. 41° 06′ W. 66° 35′*†	30.22	767.6				n.			3		2					sm'h		clear.
Light House Tender, Laurel, Key West, Fla†	30.09	764.3	85	29.4		ese.			2		4		ese.	7 h'r	7 h'r			fair.
Bk. Liberia, N. 26° 49′, W. 64° 50′*	30.06	763.5	80	26.7	86	nw.			5		6			4 h'r	4 h'r			squally.
S. S. Madrid, Brouwershaven, Netherlands*†	30.00	762.0				nw.					2		nnw.	4 h'r	4 h'r			clear.
S. S. Nebo, Genoa, Italy*†	29.87	758.7				sse.			3		0			0	0			clear.
S. Paramita, N. 25° 40′ W. 132° 48′†	30.02	762.5	71	21.7		ne.			4		6		nne.	0	0	long	nnw.	
Bk. Sunbeam, N. 39° 21′ W. 57° 23′†	30.00	762.0	76	24.4	81	n.			6		8		nw.	3 h'r	3 h'r	mod.	nw.	cloudy.
S. S. Sunbeam, N. 36° 19′, E. 21° 01′	30.02	762.5	77	25.0	77	wnw.			6		0					2	wnw.	blue sky.
S. Sovereign of the Sea, S. 30° 39′, W. 44° 01′*†	30.10	764.5	58	14.4	81	ssw.			5		4		ssw.	2 h'r	2 h'r	hv'y	wsw.	clear.
Bg. Teneriffe, Sagua la Grande, Cuba, W. I.	30.00	762.0				se.			1									
Bk. Truro, N. 43° 25′, W. 66° 00′*†.	30.05	763.3				ne.			4		2		ne.	0	0	mod.	ne.	clear.
U.S.F.C.S.S.Fish Hawk, Wood's Hole, Mass†	30.43	772.9	66	18.9	90	nne.			2		7		ne.	0	0			cloudy.
Bk. Vincenzo Accame N. 36° 42′, W. 26° —′†	30.55	776.0	75.2	24.0		e.			4									
Schr Viola Reppard, York Spit Light, Va†	30.04	763.0	84	28.9		e.			4		7		e.	0	0			cloudy.
Bk. Wm. Wilcox, Buenos Ayres, S. A*†	30.30	771.1	53	11.7		n.			3		10		n.	0	0			cloudy.

International Chart I. July 31, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

SUMMARY AND REVIEW

OF

INTERNATIONAL METEOROLOGICAL OBSERVATIONS,

JULY, 1882.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Mot'rs	Result of Simultaneous Observations for July, 1882. Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
ALGERIAN.	° ′	° ′																								
Nemours	N. 35 06	W. 1 50	0.00 m.	13	4	.....	.....	30.02	762.5	78.4	25.8	75.9	6	.....	2	9	11	3	.....	.....	.....	.....	.....	2	inap.	inap.
Algiers	N. 36 47	E. 3 04	0.20 p.m.	72	22	.....	.....	30.03	762.7	79.7	26.5	59.2	9	5	.....	.....	.....	.....	3	14	.....	.....	.....	1	inap.	inap.
La Calle	N. 36 54	E. 8 26	0.42 p.m.	36	11	.....	.....	30.00	762.0	82.4	28.0	65.3	9	7	2	2	.....	1	1	6	3	.....	.....	1	0.16	4.0
Tunis	N. 36 42	E. 10 13	0.49 p.m.	46	14	.....	.....	30.00	761.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saida	N. 34 51	E. 0 10	0.09 p.m.	2844	867	.....	.....	30.06	763.4	90.7	32.6	30.6	1	.....	.....	6	6	4	7	7	.....	.....	.....	1	0.22	5.6
Tebessa	N. 35 24	E. 8 06	0.40 p.m.	2890	881	.....	.....	30.06	763.4	85.8	29.9	28.6	6	10	4	6	2	2	1	.....	.....	.....	.....	1	0.39	10.0
Geriville	N. 33 45	E. 1 10	0.13 p.m.	4285	1306	.....	.....	.....	.....	94.3	34.6	6.3	3	13	6	4	3	2	.....	.....	.....	.....	.....	1	0.19	4.8
Laghouat	N. 33 48	E. 2 53	0.20 p.m.	2559	780	.....	.....	30.01	762.3	98.1	36.7	34.1	2	1	14	.....	1	2	5	6	.....	.....	.....	1	0.75	19.0
Biskra	N. 34 51	E. 5 41	0.31 p.m.	410	125	.....	.....	30.07	763.7	97.7	36.5	24.5	1	4	.....	2	1	22	.....	1	.....	.....	.....	1	0.12	3.0
AUSTRALIAN.																										
Melbourne	S. 37 50	E. 144 58	9.47 p.m.	91	28	29.93	760.3	30.03	762.6	47.2	8.4	81	14	1	7	2	2	3	.....	2	.....	.....	.....	6	2.11	53.6
AUSTRO-HUNGARIAN.																										
Agram	N. 45 48	E. 15 53	1.12 p.m.	536	163	29.34	745.3	29.86	758.5	73.8	23.2	53.1	1	2	6	10	2	5	1	4	.....	.....	.....	4	4.04	102.7
Cracow	N. 50 04	E. 20 00	1.28 p.m.	722	220	29.13	739.8	29.86	758.4	73.9	23.3	58.5	1	5	9	6	.....	.....	5	5	.....	.....	.....	7	3.89	98.7
Eperies	N. 48 58	E. 21 15	1.33 p.m.	820	250	28.99	736.3	29.82	757.3	69.3	20.7	72.2	12	1	.....	.....	4	2	.....	.....	12	.....	.....	6	3.24	82.3
Gratz	N. 47 04	E. 15 28	1.10 p.m.	1171	357	28.67	728.3	29.87	758.7	72.9	22.7	75.1	1	9	2	9	3	5	1	.....	1	.....	.....	5	4.94	125.0
Hermannstadt	N. 45 47	E. 24 13	1.45 p.m.	1352	412	28.43	722.1	29.78	756.3	78.4	25.8	50	1	16	2	1	3	6	2	.....	.....	.....	.....	6	5.98	151.8
Kremsmünster	N. 48 03	E. 14 08	1.04 p.m.	1260	384	28.60	726.5	29.90	759.5	67.6	19.8	72.6	.....	6	7	2	.....	1	1	8	6	.....	.....	7	9.35	236.6
Lemberg	N. 49 50	E. 24 00	1.44 p.m.	978	298	28.94	735.0	29.89	759.2	75.0	23.9	59.8	1	4	1	6	2	7	3	7	.....	.....	.....	7	10.27	260.8
Pola	N. 44 52	E. 13 51	1.04 p.m.	105	32	29.79	756.7	29.90	759.4	79.5	26.4	57.1	1	.....	12	4	.....	9	3	2	.....	.....	.....	4	0.90	22.8
Szathmar	N. 47 46	E. 22 53	1.39 p.m.	430	131	29.35	745.4	29.79	756.7	79.9	26.6	53	4	4	7	6	2	2	6	.....	.....	.....	.....	5	6.40	162.6
Szegedin	N. 46 15	E. 20 10	1.29 p.m.	256	78	29.54*b*	750.3*b*	29.81*e*	757.1*e*	77.7*a*	25.4.*a*	56.7*b*	2*b*	5	1	2	10	1	1	3	4	.....	.....	5*b*	2.57	65.2
Trieste	N. 45 39	E. 13 46	1.04 p.m.	85	26	29.82	757.5	29.93	760.1	79.9	26.6	52.1	.....	1	1	14	1	.....	3	2	9	.....	.....	4	2.12	53.9
Vienna	N. 48 12	E. 16 22	1.14 p.m.	663	202	29.27	743.4	29.96	760.9	72.9	22.7	56.9	3	10	12	.....	1	5	.....	.....	.....	.....	.....	5	5.04	128.0
BRITISH.																										
Aberdeen	N. 57 10	W. 2 06	0.00 m.	89	27	29.60	751.8	29.70	754.4	60.1	15.6	72.6	1	3	1	1	9	14	1	1	.....	.....	.....	6	3.61	91.7
Armagh	N. 54 21	W. 6 39	11.42 a.m.	207	63	29.48*a*	748.8*a*	29.71*a*	754.6*a*	59.9	15.5	79.0	2	.....	6	10	10	3	.....	.....	.....	.....	.....	7	.....	.....
Bidston	N. 53 24	W. 3 04	11.56 a.m.	197	60	.....	.....	29.61*o*	752.1*o*	61.9	16.6	75.5	.....	1	10	12	4	3	1	.....	.....	.....	.....	7	.....	.....
Bolton	N. 53 35	W. 2 28	11.58 a.m.	500	152	29.25	742.9	29.77	756.1	60.2	15.7	76.4	.....	2	4	13	9	2	1	.....	.....	.....	.....	8	.....	.....
Bradford *e*	N. 53 48	W. 1 47	0.01 p.m.	366	111	29.39	746.5	29.78	756.4	61.7	16.5	68.0	.....	4	4	13	.....	4	.....	1	.....	.....	.....	8	4.07	103.4
Bridgetown	N. 13 04	W. 59 37	8.10 a.m.	28	9	30.03	762.7	30.06	763.5	82.3	27.9	76.6	.....	.....	.....	.....	.....	.....	.....	31	.....	.....	.....	4	.....	.....
Cardington	N. 52 08	W. 0 27	0.06 p.m.	109	33	.....	.....	29.83	757.7	68.0	20.0	71.4	1	3	5	15	4	1	1	1	.....	.....	.....	7	.....	.....
Chatham	N. 51 25	E. 0 33	0.10 p.m.	120	37	29.76	755.9	29.89	759.2	65.5	18.6	68.9	.....	2	.....	17	5	.....	.....	4	3	.....	.....	7	.....	.....
Falmouth	N. 50 09	W. 5 04	11.48 a.m.	211	64	29.66	753.4	29.88	758.9	62.5	16.9	73.1	.....	6	4	12	8	1	.....	.....	.....	.....	.....	7	.....	.....
Fort Napier	S. 30 00	E. 31 00	2.12 p.m.	2200	671	27.82	706.6	30.04	763.0	68.9	20.5	37.5	2	.....	1	.....	1	4	11	9	3	.....	.....	2	.....	.....
Free Town	N. 8 30	W. 13 14	11.15 a.m.	224	68	29.67	753.6	29.90	759.4	83.8	28.8	77.3	3	10	12	6	.....	.....	.....	.....	.....	.....	.....	4	.....	.....
Gibraltar	N. 36 09	W. 5 21	11.47 a.m.	50	15	30.00	762.0	30.05	763.3	79.3	26.3	74.6	.....	.....	13	4	.....	1	10	3	.....	.....	.....	3	.....	.....
Glasgow	N. 55 53	W. 4 17	11.51 a.m.	184	56	29.48	748.8	29.69	754.1	60.9	16.1	68.8	1	2	6	11	6	3	.....	2	.....	.....	.....	7	.....	.....
Greenwich	N. 51 29	0 00	0.08 p.m.	159	48	29.70	754.4	29.87	758.7	68.1	20.1	62.8	3	1	3	15	6	.....	1	2	.....	.....	.....	7	.....	.....
Guernsey	N. 49 27	W. 2 41	11.58 a.m.	275	84	29.64	752.8	29.94	760.5	62.2	16.8	79.5	3	3	6	17	1	.....	1	.....	.....	.....	.....	6	.....	.....
Kew	N. 51 28	W. 0 19	0.07 p.m.	34	10	29.84	757.9	29.88	758.9	64.9	18.3	64.8	1	1	3	15	6	.....	2	3	.....	.....	.....	8	.....	.....
Lelcester	N. 52 39	W. 1 08	0.04 p.m.	245	75	29.57	751.1	29.81	757.2	65.1	18.4	62.9	2	2	1	24	.....	1	.....	1	.....	.....	.....	7	.....	.....
Malta	N. 36 00	E. 14 30	1.06 p.m.	70	21	29.87	758.7	29.94	760.5	81.3	27.4	64.6	.....	11	2	.....	1	1	1	6	.....	.....	.....	6	.....	.....
Nassau	N. 25 04	W. 77 22	6.58 a.m.	44	13	30.13	765.3	30.18	766.6	85.1	29.5	71.1	.....	.....	.....	3	5	15	6	2	.....	.....	.....	5	.....	.....
Oscott	N. 52 28	W. 1 55	0.00 m.	483	147	29.31	744.5	29.82	757.4	63.2	17.3	70.8	2	1	3	4	18	1	.....	2	.....	.....	.....	7	.....	.....
Oxford	N. 51 46	W. 1 17	0.03 p.m.	210	64	29.63	752.6	29.86	758.4	64.1	17.8	71.9	1	2	2	7	14	3	2	.....	.....	.....	.....	7	.....	.....
Plymouth	N. 50 22	W. 4 10	11.51 a.m.	69	21	29.81	757.2	29.88	758.9	64.5	18.1	75.6	.....	1	6	12	11	.....	.....	1	.....	.....	.....	6	.....	.....
Sandwick Manse	N. 59 05	W. 3 20	11.54 a.m.	94	29	.....	.....	29.56*f*	750.8*f*	58.7*e*	14.8*e*	79.9*e*	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5*f*	.....	.....
Scutari Cemet'y *a*	N. 41 00	E. 29 03	2.04 p.m.	60	18	29.70	754.4	29.77	756.1	87.5	30.8	48.4	6	.....	1	7	4	.....	.....	11	1	.....	.....	2	.....	.....
Sheffield *b*	N. 53 23	W. 1 28	0.02 p.m.	260	79	29.55	750.6	29.82	757.4	66.8	19.3	70.1	...*a*	.....	2	22	2	1	1	2	.....	.....	.....	7*a*	2.49	63.2
Silloth Rectory	N. 54 52	W. 3 22	11.54 a.m.	28	9	29.71	754.6	29.73	755.1	63.0	17.2	73.5	.....	.....	10	14	7	.....	.....	.....	.....	.....	.....	6	5.97	151.6
Stonyhurst	N. 53 51	W. 2 28	11.58 a.m.	361	110	.....	.....	29.81*a*	757.2*a*	61.3	16.3	71.5	.....	1	11	9	8	.....	1	1	.....	.....	.....	8	.....	.....
Stratfield Turgiss	N. 51 17	W. 0 53	0.04 p.m.	197	60	29.64*b*	752.8*b*	29.86*b*	758.4*b*	63.5	17.5	67.5	.....	2	4	20	2	.....	1	2	.....	.....	.....	6	.....	.....
Truro	N. 50 16	W. 5 04	11.53 a.m.	43	13	29.87	758.7	29.89	759.2	66.2	19.0	68.8	.....	10	7	13	1	.....	.....	.....	.....	.....	.....	6	.....	.....
Valencia	N. 51 55	W. 10 18	11.27 a.m.	23	7	29.76	755.9	29.78	756.4	59.5	15.3	71.7	.....	3	10	9	6	3	.....	.....	.....	.....	.....	8	.....	.....
CANADIAN.																										
Charlottetown	N. 46 14	W. 63 10	7.55 a.m.	38	12	29.87	758.7	29.91	759.7	63.0	17.2	81.4	2	2	6	12	3	2	2	.....	2	5220	8401	7	3.68	93.5
Chatham	N. 47 03	W. 65 29	7.45 a.m.	56	17	29.88	758.9	29.94	760.5	62.0	16.7	85.3	2	2	6	10	6	2	.....	3	.....	3213	5171	6	4.40	111.8
Father Point	N. 48 31	W. 68 28	7.34 a.m.	20	6	29.87	758.7	29.89	759.2	56.3	13.5	87.0	.....	1	12	8	1	1	.....	5	3	11450	10817	7	3.05	77.5
Fort Garry	N. 49 51	W. 97 07	5.39 a.m.	754	230	29.08	738.6	29.89	759.2	56.4	13.0	89.8	8	6	3	2	6	4	2	.....	.....	8044	12945	6	7.10	180.3
Halifax	N. 44 39	W. 63 36	7.53 a.m.	122	37	29.86	758.4	29.99	761.7	62.1	16.7	87.7	2	3	7	8	4	4	1	2	.....	.....	.....	6	5.19	131.8
Kingston	N. 44 14	W. 76 30	7.02 a.m.	307	94	29.64	752.8	29.96	761.0	64.2	17.9	82.7	5	2	6	8	3	.....	1	5	1	4892	7873	6	1.99	50.6
Montreal	N. 45 31	W. 73 33	7.13 a.m.	187	57	29.73	755.1	29.93	760.2	65.0	18.3	78.6	4	1	17	2	2	.....	4	1	.....	.....	.....	6	6.04	153.4
Parry Sound	N. 45 19	W. 80 01	6.48 a.m.	635	194	29.29	744.0	29.96	761.0	62.9	17.2	80.9	3	1	3	8	6	2	2	3	3	6292	10126	4	2.06	52.3
Port Dover	N. 42 47	W. 80 13	6.47 a.m.	635	194	29.33	745.0	30.00	762.0	63.1	17.3	93.8	3	3	6	8	1	.....	.....	1	9	4189	6741	4	0.98	24.9
Port Stanley	N. 42 40	W. 81 13	6.43 a.m.	592	180	29.37	746.0	30.00	762.0	61.7	16.5	87.9*a*	4	3	14	2	3	2	2	.....	1	.....	.....	5	0.98	24.9
Quebec	N. 46 48	W. 71 12	7.23 a.m.	293	89	29.62	752.3	29.93	760.2	60.8	16.0	89.7	1	1	16	.....	.....	.....	7	1	5	.....	.....	6	4.41	112.0
Rockliffe	N. 46 10	W. 77 48	6.57 a.m.	418	127	29.48	748.8	29.93	760.2	59.2	15.1	87.3	.....	10	4	.....	.....	2	4	.....	11	.....	.....	5	3.85	97.8
Saugeen	N. 44 30	W. 81 21	6.42 a.m.	656	200	29.30	744.2	29.97	761.2	61.2	16.2	87.4*a*	1	4	3	8	6	2	1	2	4	6480	10428	4	0.78	19.8
St. Andrews	N. 43 04	W. 81 06	6.34 a.m.	47	14	29.90	759.4	29.95	760.7	59.3	15.2	87.5	1	5	3	.....	2	8	2	3	7	.....	.....	3	2.57	65.3
Sydney	N. 46 08	W. 60 10	8.07 a.m.	37	11	29.89	759.2	29.95	760.7	55.3	12.9	79.9	3	1	1	17	3	.....	1	2	3	8941	12940	7	3.68	93.5
Toronto	N. 43 39	W. 79 23	6.50 a.m.	350	107	29.63	752.6	30.00	762.0	63.9	17.7	75.7	3	6	8	3	3	.....	2	2	4	6284	10113	5	1.07	27.2
Yarmouth	N. 43 50	W. 66 02	7.44 a.m.	61	19	29.92	760.0	29.98	761.5	57.9	14.4	92.6	1	1	1	10	5	2	3	.....	8	.....	.....	4	0.66	16.8
Sub-Series.																										
Mt. Forrest	N. 44 01	W. 80 54	6.44 a.m.	1375	419	28.59	726.2	30.05	763.3	58.9	14.9	86.0	2	7	13	7	.....	.....	1	.....	1	.....	.....	6	0.80	20.3
St. Johns, N. F.	N. 47 34	W. 52 42	8.37 a.m.	230	70	30.00	762.0	30.24	768.1	60.3	15.7	85.7	3	4	1	17	4	.....	1	1	.....	.....	.....	4	4.68	118.9
CAPE COLONY																										
Cape St. Francis	S. 34 10	E. 24 50	1.47 p.m.	25	7	30.21	767.3	30.24	768.1	62.7	17.1	80.3	1	.....	9	8	.....	4	2	5	2	.....	.....	8	2.84	72.1
Cape Town	S. 34 02	E. 18 29	1.22 p.m.	27	8	30.15	765.8	30.19	766.8	62.3	16.8	74.0	1	10	4	1	8	6	1	.....	.....	.....	.....	4	5.33	135.4

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Result of Simultaneous Observations for July, 1882. Mean Barometer. Actual. Inch.	Actual. Mill.	Reduced. Inch.	Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Total Movement. Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Total Precipitation. Mill.
CHINESE.	° ′	° ′																								
Sub Series.																										
Hankow	N. 30 34	E. 114 20	7.45 p.m.	260	79	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zi-Ka-Wei	N. 31 12	E. 121 26	8.14 p.m.	23	7	29.73	755.2	29.76	755.8	76.1	24.5	90.8	.....	1	.....	1	2	15	9	3	.....	.....	.....	6	8.67	220.2
DANISH.																										
Copenhagen	N. 55 41	E. 12 36	0.58 p.m.	43	13	29.81	757.1	29.85	758.3	67.8	19.9	65	1	6	3	5	5	7	2	1	1	.....	.....	6	.....	.....
Fanöe	N. 55 27	E. 8 24	0.42 p.m.	20	6	29.83	757.7	29.85	758.2	65.5	18.6	73	2	4	7	12	3	2	.....	.....	1	.....	.....	6	.....	.....
Godthaab	N. 64 11	W. 51 46	8.41 a.m.	36	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stykkisholm	N. 65 05	W. 22 46	10.37 a.m.	36	11	29.58	751.4	29.63	752.5	48.0	8.9	80	.....	.....	4	.....	4	7	9	2	5	.....	.....	6	.....	.....
Thorshavn	N. 62 02	W. 6 44	11.41 a.m.	29	9	29.60	751.7	29.63	752.6	54.9	12.7	84	2	.....	2	5	4	3	4	6	5	.....	.....	8	.....	.....
Vestervig	N. 56 47	E. 8 20	0.41 p.m.	82	25	29.74	755.4	29.83	757.7	63.7	17.6	79	1	5	4	13	4	1	1	.....	2	.....	.....	5	.....	.....
FRENCH.																										
Agen	N. 44 12	E. 0 38	0.11 p.m.	604	184	29.45	748.0	30.09	764.3	73.0	22.8	62.6	1	5	2	1	3	5	.....	2	12	.....	.....	.....	0.28	7.2
Alençon	N. 48 26	E. 0 05	0.09 p.m.	476	145	29.44	747.7	29.99	761.7	66.6	19.2	76.6	4	1	1	11	13	.....	.....	1	.....	.....	.....	.....	3.96	100.6
Arras	N. 50 18	E. 2 46	0.19 p.m.	239	73	29.71	754.7	29.97	761.1	65.7	18.7	72.9	1	4	7	10	4	.....	.....	5	.....	.....	.....	.....	1.86	47.2
Avignon	N. 43 57	E. 4 48	0.27 p.m.	65	20	29.88	759.0	29.96	761.0	79.2	26.2	52.3	17	9	.....	2	2	1	.....	.....	.....	.....	.....	6	1.16	29.6
Bar-sur-Seine	N. 48 07	E. 4 22	0.25 p.m.	518	158	29.46	748.2	30.00	761.9	67.8	19.9	62.0	1	1	2	5	9	5	6	2	.....	.....	.....	7	5.76	146.3
Beauvais	N. 49 26	E. 2 05	0.16 p.m.	246	75	29.71	754.6	29.97	761.1	69.3	20.7	57.1	2	6	1	6	10	4	1	1	.....	.....	.....	7	3.34	84.7
Besançon	N. 47 14	E. 6 02	0.32 p.m.	846	258	29.09	738.8	29.96	760.9	68.9	20.5	67.4	5	.....	1	2	14	2	1	6	.....	.....	.....	6	8.32	211.2
Bordeaux	N. 44 50	E. 0 32	0.06 p.m.	243	74	29.78	756.4	30.03	762.8	71.6	22.0	51.8	2	7	5	7	3	.....	6	1	.....	.....	.....	7	2.10	53.2
Bourges	N. 47 10	E. 2 26	0.17 p.m.	510	156	29.48	748.7	30.01	762.3	69.4	20.8	58.9	7	3	6	6	6	3	.....	.....	.....	.....	.....	.....	3.88	98.5
Brest	N. 48 24	W. 4 30	11.50 a.m.	210	64	29.75	755.6	29.99	761.8	66.0	18.9	73.5	5	1	4	20	.....	.....	.....	1	.....	.....	.....	7	3.37	85.5
Caen	N. 49 11	W. 0 21	0.07 p.m.	69	21	29.95	760.7	30.02	762.6	66.0	18.9	65.9	1	3	6	9	6	3	1	1	1	.....	.....	6	2.55	64.8
Châlons-sur-Marne	N. 48 57	E. 4 21	0.25 p.m.	294	90	29.63	752.5	29.94	760.4	68.9	20.5	66.2	.....	1	5	3	13	.....	.....	3	6	.....	.....	6	2.88	73.2
Charleville	N. 49 46	E. 4 49	0.27 p.m.	476	145	29.43	747.6	29.93	760.2	69.1	20.6	59.1	6	4	11	5	1	1	1	1	1	.....	.....	.....	4.15	105.4
Clermont-Fd	N. 45 46	E. 3 05	0.20 p.m.	1273	388	28.68	728.5	29.99	761.8	70.3	21.3	54.6	8	1	4	4	1	3	3	7	.....	.....	.....	6	4.45	113.0
Cluny	N. 46 26	E. 4 39	0.27 p.m.	787	240	29.18	741.2	30.00	762.1	68.9	20.5	60.4	.....	8	4	6	7	3	.....	3	.....	.....	.....	6	7.12	180.9
Commercy	N. 48 46	E. 5 35	0.30 p.m.	797	243	29.14	740.2	29.99	761.7	67.1	19.5	65.3	2	3	11	10	2	2	1	.....	.....	.....	.....	7	5.10	129.4
Gap *a*	N. 44 33	E. 6 05	0.32 p.m.	2424	739	27.48	697.9	29.91*c*	759.8*c*	74.1	23.4	42.2	4	2	3	3	4	3	4	7	1	.....	.....	4	0.81	20.5
Gréasque	N. 43 25	E. 5 37	0.31 p.m.	1056	322	28.85	732.9	29.92	760.0	81.0	27.2	33.7	.....	.....	.....	.....	1	15	13	2	.....	.....	.....	2	0.91	23.0
Grenoble	N. 45 12	E. 5 43	0.31 p.m.	715	218	29.22	742.3	29.96	761.0	70.5	21.4	64.8	1	18	5	.....	.....	2	3	2	.....	.....	.....	.....	2.19	55.6
Guéret	N. 46 10	E. 1 52	0.16 p.m.	1486	453	28.48	723.3	30.02	762.5	65.8	18.8	61.5	1	5	8	9	1	.....	1	6	.....	.....	.....	.....	3.90	99.1
Lamballe	N. 48 28	W. 2 31	11.58 a.m.	252	77	29.70	754.3	29.97	761.1	64.8	18.2	73.1	5	5	3	4	11	2	.....	1	.....	.....	.....	4	2.59	65.7
Lescar	N. 43 20	W. 0 26	0.06 p.m.	525	160	29.48	748.9	30.03	762.8	71.8	22.1	57.3	3	.....	16	4	.....	.....	6	2	.....	.....	.....	3	1.61	41.0
Lorient	N. 47 45	W. 3 21	11.55 a.m.	86	26	29.90	759.5	30.00	762.1	66.7	19.3	73.4	1	.....	7	14	5	.....	.....	.....	4	.....	.....	7	4.16	105.6
Lyon	N. 45 41	E. 2 30	0.25 p.m.	981	299	28.97	735.8	30.01	762.2	69.8	21.0	54.8	10	8	.....	2	5	5	1	.....	.....	.....	.....	.....	5.07	128.7
Mans	N. 48 01	E. 0 12	0.09 p.m.	285	87	29.69	754.2	30.00	761.9	66.9	19.4	66.8	1	4	10	7	3	2	2	2	.....	.....	.....	7	3.07	77.9
Marseille	N. 43 18	E. 5 23	0.29 p.m.	246	75	29.69	754.0	29.95	760.7	77.5	25.3	44.9	.....	5	13	7	2	4	.....	.....	.....	.....	.....	.....	0.63	16.0
Mont-Louis	N. 42 30	E. 2 07	0.16 p.m.	5203	1586	24.91	632.7	29.76	755.8	63.9	17.7	47.1	2	7	7	8	2	.....	4	1	.....	.....	.....	3	1.51	38.3
Montpellier	N. 43 37	E. 3 53	0.24 p.m.	118	36	29.84	757.9	29.97	761.1	78.8	26.0	54.9	4	.....	.....	.....	.....	16	6	5	.....	.....	.....	2	1.32	33.6
Nancy	N. 48 42	E. 6 11	0.33 p.m.	725	221	29.23	742.4	29.99	761.8	67.3	19.6	67.5	.....	4	6	4	15	2	.....	.....	.....	.....	.....	.....	3.99	101.3
Nantes	N. 47 13	W. 1 33	0.02 p.m.	134	41	29.88	759.0	30.04	762.9	70.0	21.1	61.4	4	2	6	11	5	1	.....	2	.....	.....	.....	8	3.43	87.0
Perpignan	N. 42 42	E. 2 53	0.19 p.m.	105	32	29.89	759.2	29.99	761.8	77.9	25.5	41.7	1	15	.....	.....	1	1	3	10	.....	.....	.....	3	0.84	21.3
Pic du Midi (Sum-	N. 42 56	W. 0 08	0.08 p.m.	9380	2859	21.37	542.8	.....	.....	46.2	7.9	.....	.....	3	4	13	3	4	2	2	.....	.....	.....	6	3.41	86.5
Privas..... [mit.)	N. 44 45	E. 4 36	0.26 p.m.	997	304	28.96	735.6	30.00	761.9	74.5	23.6	47.7	11	2	.....	1	15	.....	2	.....	.....	.....	.....	3	2.03	51.6
Puy de Dome	N. 45 46	E. 2 58	0.20 p.m.	4813	1467	25.21	640.4	.....	.....	49.3	9.6	84.7	4	4	7	11	1	3	.....	1	.....	.....	.....	.....	6.56	166.5
Rochefort	N. 45 56	W. 0 58	0.04 p.m.	29	9	30.02	762.5	30.05	763.3	72.7	22.6	95.4	2	2	10	11	4	1	.....	1	.....	.....	.....	6	5.94	151
Roche-sur-Yon	N. 46 40	W. 1 26	0.02 p.m.	198	60	29.78	756.3	29.98	761.5	68.9	20.5	70.3	5	3	2	11	7	1	.....	2	.....	.....	.....	6	3.13	79.4
Rodez	N. 44 21	E. 2 34	0.18 p.m.	2050	625	27.92	709.1	30.01	762.3	67.8	19.9	60.6	2	10	10	.....	.....	4	2	2	1	.....	.....	6	4.42	112.2
Rouen	N. 49 26	E. 1 05	0.12 p.m.	39	12	29.91	759.8	29.96	761.0	67.6	19.8	68.7	1	5	3	9	9	1	.....	3	.....	.....	.....	6	4.90	124.5
Saint Maur	N. 48 48	E. 2 21	0.17 p.m.	162	49	29.81	757.2	29.98	761.4	69.1	20.6	57.3	5	2	4	8	6	3	1	2	.....	.....	.....	7	2.29	58.2
Toulouse	N. 43 37	E. 1 27	0.14 p.m.	636	194	29.39	746.4	30.11	764.8	74.8	23.8	52.5	6	6	7	2	.....	4	4	2	.....	.....	.....	3	3.49	88.7
Tours	N. 47 24	E. 0 41	0.11 p.m.	164	50	29.81	757.1	30.00	761.9	70.7	21.5	61.7	4	.....	4	20	1	.....	.....	2	.....	.....	.....	.....	1.74	44.1
Versailles	N. 48 48	E. 2 07	0.16 p.m.	445	136	29.49	749.0	29.98	761.5	68.4	20.2	58.3	6	2	6	13	.....	.....	1	3	.....	.....	.....	6	2.61	66.2
Sub-Series.																										
Paris, Montsouris	N. 48 50	E. 2 20	0.17 p.m.	256	78	29.69	754.2	29.98	761.6	68.4	20.2	61.0	3	5	4	12	6	1	.....	.....	.....	.....	.....	7	1.82	46.1
GERMAN.																										
Bamberg	N. 49 54	E. 10 54	0.51 p.m.	796	242	29.10	739.2	29.96	760.9	69.1	20.6	62.8	.....	7	7	6	1	1	1	1	7	.....	.....	6	5.85	148.6
Berlin	N. 52 30	E. 13 23	1.02 p.m.	164	50	29.82	757.4	29.99	761.7	73.4	23.0	50.1	4	3	10	6	3	2	.....	2	1	.....	.....	8	7.40	188.0
Breslau	N. 51 07	E. 17 02	1.17 p.m.	482	147	29.40	746.8	29.93	760.3	73.4	23.0	48.4	4	7	4	4	1	3	4	4	.....	.....	.....	6	1.67	42.4
Carlsruhe	N. 49 01	E. 8 25	0.42 p.m.	404	123	29.53	750.0	29.95	760.6	68.4	20.2	71.2	.....	3	2	13	1	4	3	5	.....	.....	.....	7	7.06	179.2
Cassel	N. 51 19	E. 9 28	0.46 p.m.	669	204	29.18	741.2	29.89	759.3	71.6	22.0	58.2	2	8	2	4	12	2	.....	1	.....	.....	.....	7	5.80	147.4
Frankfort on M.	N. 50 08	E. 8 41	0.43 p.m.	338	103	29.56	750.8	29.92	760.0	69.8	21.0	65.4	4	2	1	12	9	.....	2	1	.....	.....	.....	7	7.89	200.5
Friedrichshafen	N. 47 39	E. 9 29	0.46 p.m.	1355	413	28.56	725.4	29.95	760.8	67.1	19.5	72.4	1	1	4	16	7	.....	.....	2	.....	.....	.....	6	6.63	168.5
Hamburg	N. 53 33	E. 9 58	0.48 p.m.	85	26	29.80	757.0	29.90	759.4	68.7	20.4	61.2	1	3	7	8	6	3	.....	3	.....	.....	.....	7	3.80	96.5
Kiel	N. 54 19	E. 10 04	0.48 p.m.	13	4	29.85	758.2	29.87	758.6	67.8	19.9	61.3	.....	3	9	6	3	3	1	6	.....	.....	.....	7	3.33	84.5
Leipsic	N. 51 20	E. 12 24	0.58 p.m.	390	119	29.50	749.4	29.91	759.7	71.8	22.1	57.1	2	3	3	11	5	3	2	2	.....	.....	.....	7	6.55	166.4
Magdeburg	N. 52 09	E. 11 37	0.54 p.m.	177	54	29.70	754.4	29.88	759.0	72.5	22.5	56.9	1	5	6	7	6	1	2	3	.....	.....	.....	7	5.98	151.8
Memel	N. 55 43	E. 21 07	1.32 p.m.	39	12	29.88	759.0	29.93	760.2	70.0	21.1	67.0	3	7	11	3	2	2	3	.....	.....	.....	.....	5	.....	.....
Munich	N. 48 09	E. 11 34	0.54 p.m.	1732	528	28.17	715.6	30.04	762.9	66.9	19.4	59.5	2	6	10	1	.....	1	5	4	2	.....	.....	6	7.13	181.2
Neufahrwasser	N. 54 24	E. 18 40	1.25 p.m.	16	5	29.89	759.2	29.91	759.6	70.3	21.2	62.9	8	3	7	.....	3	1	6	3	.....	.....	.....	6	5.27	133.8
Neustadt *a*	N. 49 21	E. 8 08	0.41 p.m.	479	146	29.42	747.2	29.95	760.6	68.4	20.2	67.1	1	1	13	1	4	.....	1	3	6	.....	.....	7	4.87	123.6
Stuttgart	N. 48 47	E. 9 11	0.45 p.m.	833	254	29.01	736.9	29.87	758.8	69.8	21.0	61.2	13	1	10	6	1	.....	.....	.....	.....	.....	.....	6	4.39	111.5
Wustrow	N. 54 21	E. 12 24	0.58 p.m.	23	7	29.89	759.1	29.91	759.6	68.5	20.3	71.8	2	4	8	5	2	5	2	3	.....	.....	.....	7	3.29	83.6
GREEK.																										
Athens	N. 37 58	E. 23 44	1.43 p.m.	361	110	29.44	747.8	29.80	757.0	89.1	31.7	.....	1	.....	.....	14	6	.....	1	9	.....	.....	.....	2	0.18	4.6
ITALIAN.																										
Udine	N. 46 04	E. 13 13	1.01 p.m.	381	116	29.52	749.8	29.91	759.8	78.6	25.9	53	.....	1	3	6	10	2	5	2	2	.....	.....	5	3.87	98.2
Milan	N. 45 28	E. 9 11	0.45 p.m.	482	147	29.41	746.9	29.90	759.5	80.8	27.1	41	2	2	2	6	5	5	4	5	.....	.....	.....	4	2.24	56.9
Padua	N. 45 24	E. 11 53	0.56 p.m.	102	31	29.80	757.0	29.91	759.7	80.1	26.7	43	1	5	3	3	3	9	2	5	.....	.....	.....	4	1.41	35.9
Moncalieri	N. 45 00	E. 7 41	0.39 p.m.	853	260	29.01	736.9	29.88	759.0	78.1	25.6	43	2	3	.....	5	4	3	12	2	.....	.....	.....	4	2.05	52.0
Genoa *a*	N. 44 24	E. 8 55	0.44 p.m.	157	48	29.74	755.5	29.93	760.2	76.6	24.8	59	4	1	.....	10	1	14	.....	.....	1	.....	.....	2	2.11	53.5
Mondovi	N. 44 23	E. 7 48	0.39 p.m.	1824	556	28.04	712.2	29.88	758.9	74.7	23.7	47	3	9	11	2	1	1	1	3	.....	.....	.....	2	0.56	14.3
Pesaro	N. 43 55	E. 12 53	1.00 p.m.	46	14	29.87	758.6	29.90	759.4	77.5	25.3	58	8	1	1	6	1	2	5	7	.....	.....	.....	3	1.37	34.8
Florence	N. 43 46	E. 11 15	0.53 p.m.	240	73	29.67	753.5	29.91	759.7	81.9	27.7	42	6	2	7	8	1	3	1	3	.....	.....	.....	4	1.32	33.5
Leghorn	N. 43 33	E. 10 18	0.49 p.m.	79	24	29.80	756.8	29.88	758.9	77.7	25.4	60	.....	4	21	2	4	.....	.....	.....	.....	.....	.....	3	0.20	5.0
Rome	N. 41 54	E. 12 29	0.58 p.m.	164	50	29.76	755.8	29.93	760.1	84.4	29.1	36	3	4	6	13	5	.....	.....	.....	.....	.....	.....	2	0.98	24.8
Lecce	N. 40 22	E. 18 12	1.21 p.m.	236	72	29.65	753.1	29.89	759.2	82.6	28.1	40	6	6	.....	1	5	1	5	7	.....	.....	.....	1	0.53	13.4
Cosenza	N. 39 19	E. 16 17	1.13 p.m.	840	256	29.06	738.2	29.91	759.7	84.2	29.0	72	.....	2	9	13	3	4	.....	.....	.....	.....	.....	2	0.20	5.1
Cagliari	N. 39 30	E. 9 00	0.45 p.m.	180	55	29.74	755.5	29.93	760.2	81.7	27.6	41	.....	12	2	.....	5	12	.....	.....	.....	.....	.....	2	0.05	1.3
Palermo	N. 38 07	E. 13 21	1.02 p.m.	236	72	29.74	755.3	29.98	761.4	81.1	27.3	44	2	5	1	2	.....	.....	2	19	.....	.....	.....	1	0.03	0.8
Syracuse	N. 37 03	E. 15 15	1.09 p.m.	43	13	29.86	758.5	29.91	759.7	82.2	27.9	54	2	.....	.....	3	11	1	5	9	.....	.....	.....	2	0	0
Sub-Series.																										
Naples	N. 40 52	E. 14 15	1.05 p.m.	489	149	29.42	747.2	29.91	759.8	80.4	26.9	55.9	1	1	7	10	3	4	2	3	.....	.....	.....	3	1.30	32.9
Stelvio	N. 46 32	E. 10 25	0.50 p.m.	8343	2543	22.19	563.7	.....	.....	48.1	8.9	55.5	.....	1	8	3	1	1	8	9	.....	.....	.....	6	4.51	114.5
Valdobbia	N. 45 47	E. 7 51	0.40 p.m.	8360	2548	22.30	566.3	.....	.....	51.1	10.6	69.0	9	.....	.....	.....	.....	.....	11	11	.....	.....	.....	7	2.39	60.6
INDIAN.																										
Kurachee	N. 24 47	E. 67 04	4.36 p.m.	49	15	29.48	748.8	29.53	750.0	85.0	29.4	79	.....	.....	15	15	.....	1	.....	.....	.....	.....	.....	7	8.38	212.8
Deesa	N. 24 16	E. 72 14	4.57 p.m.	465	142	29.01	736.9	29.48	748.6	85.4	29.7	68	.....	.....	5	16	5	4	1	.....	.....	.....	.....	8	12.63	320.8
Bombay	N. 18 54	E. 72 49	5.00 p.m.	37	11	29.61	752.2	29.65	753.1	79.5	26.4	90	.....	1	18	12	.....	.....	.....	.....	.....	.....	.....	10	26.96	684.8
Poona	N. 18 28	E. 74 10	5.05 p.m.	1849	564	27.80	706.1	29.66	753.3	74.8	23.8	80	.....	1	19	11	.....	.....	.....	.....	.....	.....	.....	9	7.51	190.8
Trichinopoly	N. 10 50	E. 78 44	5.23 p.m.	275	84	29.48	748.8	29.76	755.8	87.6	30.9	47	.....	17	13	1	.....	.....	.....	.....	.....	.....	.....	9	0.04	1.0
Bellary	N. 15 09	E. 76 57	5.16 p.m.	1455	444	28.21	716.6	29.66	753.4	83.5	28.6	57	.....	8	22	1	.....	.....	.....	.....	.....	.....	.....	9	0.27	5.9
Belgaum	N. 15 52	E. 74 42	5.07 p.m.	2550	777	27.19	690.7	29.75	755.6	69.8	21.0	91	.....	.....	15	16	.....	.....	.....	.....	.....	.....	.....	9	32.15	816.6
Lahore	N. 31 34	E. 74 20	5.05 p.m.	732	223	28.71	729.3	29.43	747.5	92.0	33.3	60	1	2	1	1	.....	1	9	8	8	.....	.....	5	13.03	331.0
Roorkee	N. 29 52	E. 77 56	5.20 p.m.	887	270	28.58	726.0	29.46	748.3	86.5	30.3	76	3	.....	1	2	4	6	5	3	7	.....	.....	7	17.08	433.8
Agra	N. 27 10	E. 78 05	5.20 p.m.	555	169	28.90	734.0	29.45	748.0	85.5	29.7	78	1	2	1	1	.....	3	17	4	2	.....	.....	6	18.06	458.7

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Result of Simultaneous Observations for July, 1882. Mean Barometer. Actual. Inch.	Mean Barometer. Actual. Mill.	Mean Barometer. Reduced. Inch.	Mean Barometer. Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Wind. Total Movement. Miles	Wind. Total Movement. Kil.	Average Cloudiness. 0–10	Total Precipitation. Inch.	Total Precipitation. Mill.
INDIAN.—Cont'd.	° ′	° ′																								
Nagpur	N. 21 09	E. 79 11	5.24 p.m.	1025	312	28.48	723.5	29.51	749.6	80.7	27.1	78	1	5	14	6	1	.....	.....	1	3	.....	.....	9	23.44	595.4
Jubulpore	N. 23 09	E. 79 59	5.28 p.m.	1351	412	28.17	715.5	29.51	749.5	80.2	26.8	82	2	5	11	2	1	1	3	3	3	.....	.....	9	30.61	777.5
Lucknow	N. 26 50	E. 81 00	5.32 p.m.	369	112	29.10	739.2	29.47	748.5	88.2	31.2	68	1	.....	.....	1	.....	2	7	2	18	.....	.....	6	5.19	131.8
Alahabad	N. 25 26	E. 81 52	5.35 p.m.	307	94	29.14	740.1	29.44	747.9	85.8	29.9	79	.....	1	.....	1	.....	3	6	9	11	.....	.....	8	14.00	355.6
Patna	N. 25 37	E. 85 08	5.49 p.m.	183	56	29.32	744.7	29.50	749.3	86.6	30.3	75	2	1	.....	1	.....	2	21	3	1	.....	.....	7	3.86	98.0
Hazaribagh	N. 24 00	E. 85 24	5.50 p.m.	2007	612	27.50	698.4	29.47	748.5	80.8	27.1	78	1	4	.....	.....	3	8	11	2	2	.....	.....	9	9.11	231.4
Cuttack	N. 20 29	E. 85 54	5.52 p.m.	80	24	29.40	746.8	29.48	748.8	84.4	29.1	81	.....	.....	5	11	7	3	3	2	.....	.....	.....	8	26.01	660.6
Calcutta	N. 22 33	E. 88 21	6.01 p.m.	21	7	29.46	748.2	29.48	748.7	83.1	28.4	85	.....	1	.....	7	8	12	2	.....	1	.....	.....	8	11.76	298.7
Dhubri	N. 26 07	E. 89 50	6.08 p.m.	118	36	29.43	747.5	29.55	750.7	83.8	28.8	83	1	.....	.....	1	1	.....	3	5	20	.....	.....	8	6.74	171.2
Chittagong	N. 22 21	E. 91 50	6.15 p.m.	87	26	29.48	748.8	29.57	751.0	82.1	27.8	85	.....	.....	1	4	5	14	4	.....	3	.....	.....	8	0.90	22.9
Sibsagar	N. 26 59	E. 94 40	6.27 p.m.	333	102	29.21	741.8	29.53	750.2	86.9	30.5	77	.....	.....	1	5	1	.....	2	21	1	.....	.....	7	10.26	260.6
Jeypore	N. 26 55	E. 75 50	5.05 p.m.	1431	436	28.05	712.6	29.47	748.4	82.9	28.3	80	.....	9	3	3	1	5	7	3	.....	.....	.....	8	12.27	311.6
Zanzibar	S. 6 10	E. 39 11	2.45 p.m.	23	7	30.06	763.5	.....	.....	81.3	27.4	58	.....	.....	.....	1	15	14	1	.....	.....	.....	.....	5	0.22	5.6
JAPANESE.																										
Awomori	N. 40 51	E. 140 45	9.31 p.m.	32	10	29.82	757.5	29.86	758.3	68.6	20.3	82.7	8	2	3	1	3	2	4	3	5	3987	6416	7	5.89	149.8
Hakodate	N. 41 47	E. 140 44	9.31 p.m.	10	3	29.84	758.0	29.85	758.2	63.5	17.5	91	1	2	1	1	2	1	14	.....	9	5585	8988	7	7.00	177.8
Hiroshima	N. 34 20	E. 132 27	8.58 p.m.	14	4	.....	.....	.....	.....	75.9	24.4	83.8	6	1	11	8	5	.....	.....	.....	.....	851	1370	6	5.21	132.1
Kioto	N. 35 01	E. 135 46	9.11 p.m.	162	49	29.70	754.3	29.86	758.5	75.7	24.3	81.4	7	4	4	4	9	2	1	.....	.....	3011	4846	6	3.76	95.7
Nagasaki	N. 32 44	E. 129 52	8.47 p.m.	189	58	29.65	753.0	29.84	757.9	75.7	24.3	87.3	1	.....	.....	6	7	1	3	5	8	3913	6300	7	20.89	530.6
Nemuro	N. 43 20	E. 145 35	9.50 p.m.	58	18	29.89	759.1	29.95	760.7	59.2	15.1	90.5	4	.....	1	4	5	5	1	.....	11	.....	.....	7	3.82	96.9
Niigata	N. 37 55	E. 139 03	9.24 p.m.	32	10	29.83	757.3	29.87	758.6	72.4	22.5	88.3	3	.....	6	2	3	8	6	3	.....	3559	6785	7	4.85	123.4
Nobiru	N. 38 23	E. 141 12	9.32 p.m.	15	5	29.80	758.4	29.87	758.8	72.1	22.3	84.3	5	1	.....	1	14	6	3	1	.....	5702	9273	8	6.78	172.1
Osaka e	N. 34 42	E. 135 30	9.10 p.m.	13	4	29.85	758.2	29.86	758.4	76.9	24.9	81.8	2	1	9	6	2	3	.....	3	.....	.....	.....	6	3.82	97.0
Supporo	N. 43 04	E. 141 23	9.33 p.m.	60	18	.....	.....	.....	.....	64.4	18.0	88	5	.....	.....	.....	5	13	.....	1	7	5528	8896	6	2.45	62.2
Tokei	N. 35 41	E. 139 46	9.27 p.m.	69	21	29.81	757.1	29.88	759.0	73.7	23.2	86.0	.....	.....	.....	1	22	2	6	.....	.....	6550	10541	7	3.64	92.5
Wakayama	N. 34 14	E. 135 09	9.09 p.m.	48	15	29.82	757.3	29.86	758.5	77.0	25.0	80.3	2	1	.....	4	15	.....	.....	1	8	7087	11405	5	5.54	140.5
MAURITIUS.																										
Mauritius	S. 20 06	E. 57 33	3.58 p.m.	181	55	30.02	762.5	30.21	767.3	71.4	21.9	69.1	.....	.....	.....	2	1	5	21	2	.....	.....	.....	6	2.76	70.1
MEXICAN.																										
Guanajuato *a*	N. 21 01	W. 100 48	5.24 a.m.	6762	2061	23.75	603.2	29.98	761.4	58.3	14.6	83	3	.....	.....	4	.....	3	2	13	5	.....	.....	4	3.85	117.7
Leon	N. 21 07	W. 101 35	5.22 a.m.	5902	1799	24.37	618.9	30.03	762.7	59.6	15.3	86	2	13	.....	6	.....	3	1	6	.....	.....	.....	6	4.09	103.8
Mazatlan	N. 23 11	W. 106 17	5.03 a.m.	249	76	29.73	755.0	29.98	761.5	78.3	25.7	89	2	4	1	2	1	3	8	10	.....	.....	.....	7	1.67	42.5
Mexico	N. 19 26	W. 99 00	5.32 a.m.	7490	2283	23.17	585.5	30.21	767.4	54.3	12.4	84	.....	6	1	.....	.....	.....	.....	.....	24	.....	.....	6	3.88	98.5
Morelia	N. 19 42	W. 101 06	5.22 a.m.	6247	1940	24.28	616.6	30.36	771.1	59.2	15.2	62	1	.....	.....	.....	5	16	4	5	.....	.....	.....	5	5.65	143.4
Orizaba *e*	N. 18 51	W. 97 54	5.36 a.m.	1227	374	26.13	663.6	30.09	764.2	62.2	16.8	81	1	.....	.....	.....	12	1	4	.....	9	.....	.....	3	1.96	49.9
Pabellon	N. 22 04	W. 102 04	5.20 a.m.	6312	1924	24.02	610.1	29.99	761.8	61.2	16.2	82	.....	4	4	6	.....	1	.....	.....	16	.....	.....	4	0.98	25.4
Puebla	N. 19 02	W. 98 03	5.36 a.m.	7113	2168	23.47	596.0	30.26	768.3	52.6	11.3	86	.....	.....	.....	.....	.....	.....	.....	6	25	.....	.....	1	7.88	194.1
San Luis Potosi	N. 22 10	W. 100 51	5.25 a.m.	6211	1893	24.28	616.8	30.20	767.6	64.9	18.3	63	.....	.....	1	2	2	9	17	.....	.....	.....	.....	8	0.19	4.8
Zacatecas	N. 22 44	W. 102 26	5.18 a.m.	8100	2469	22.64	575.1	30.28	769.1	57.6	14.2	77	6	....	1	2	1	2	14.2	7	.....	.....	.....	3	1.52	38.6
NETHERLANDS.																										
Flushing	N. 51 24	E. 3 35	0.22 p.m.	0	0	29.93	760.2	29.93	760.2	66.4	19.1	.....	2	3	13	6	4	1	2	.....	.....	.....	.....	.....	3.60	91.4
Groningen	N. 53 12	E. 6 34	0.34 p.m.	?	?	29.83*a*	757.6*a*	29.88*a*	759.0*a*	66.7	19.3	.....	3*a*	2	5	11	3	.....	1	5	.....	.....	.....	.....	3.15	80.0
Helder	N. 52 58	E. 4 45	0.27 p.m.	0	0	29.88	759.0	29.88	759.0	62.8	17.1	.....	2	4	.....	11	11	1	.....	2	.....	.....	.....	.....	3.49	88.7
Hellevoetsluis	N. 51 49	E. 4 08	0.25 p.m.	0	0	29.92	759.9	29.92	759.9	66.6	19.2	72.0	.....	4	7	12	3	1	2	1	1	.....	.....	.....	2.53	64.3
Utrecht	N. 52 05	E. 5 07	0.29 p.m.	43	13	29.87	758.7	29.92	759.9	68.2	20.1	69.3	2	2	5	10	10	2	.....	.....	.....	.....	.....	6	3.80	98.1
NORWEGIAN.																										
Bergen	N. 60 24	E. 5 20	0.29 p.m.	56	17	29.69	754.0	29.75	755.6	63.0	17.2	67.8	2	4	5	4	12	4	.....	.....	.....	.....	.....	6	9.18	233.3
Brono	N. 65 28	E. 12 14	0.57 p.m.	34	10	29.71	754.5	29.74	755.5	62.6	17.0	62.3	5	1	3	7	4	5	2	2	2	.....	.....	6	2.63	66.7
Christiania	N. 59 55	E. 10 45	0.51 p.m.	134	41	29.63	752.5	29.77	756.1	67.5	19.7	63.4	3	.....	1	8	13	2	3	1	.....	.....	.....	7	6.20	158.9
Gjæsvær	N. 71 07	E. 25 22	1.49 p.m.	23	7	29.73	755.1	29.75	755.7	57.6	14.2	.....	1	1	11	3	1	1	2	3	8	.....	.....	6	.....	.....
Lodingen	N. 68 24	E. 16 01	1.12 p.m.	43	13	29.70	754.3	29.74	755.5	59.7	15.4	64.8	2	.....	2	14	1	1	3	1	7	.....	.....	6	4.15	105.4
PORTUGUESE.																										
Angra	N. 38 39	W. 27 14	10.19 a.m.	144	44	.....	.....	.....	.....	72.0	22.2	82.0	4	3	12	1	3	2	6	.....	.....	.....	.....	4	0.35	9.0
Campo Major	N. 39 02	W. 6 59	11.40 a.m.	945	288	29.04	737.5	29.99	761.7	83.5	28.6	33.3	3	4	6	9	2	2	2	1	2	.....	.....	2	0.07	17.0
Funchal	N. 32 38	W. 16 55	11.00 a.m.	82	25	30.10	764.4	30.18	766.6	73.6	23.1	66.0	.....	.....	1	27	.....	3	.....	.....	.....	.....	.....	4	0	0
Lisbon	N. 38 42	W. 9 08	11.31 a.m.	335	102	29.74	755.4	30.09	764.3	73.8	23.2	52.3	11	8	1	7	1	.....	1	2	.....	.....	.....	2	0.68	17.2
Ponta Delgada	N. 37 45	W. 25 41	10.25 a.m.	66	20	30.25	768.4	30.32	770.1	75.0	23.9	68.9	5	2	8	3	2	1	4	3	3	.....	.....	4	0.56	14.3
St. Paulde Loanda	S. 8 49	E. 13 07	1.00 p.m.	193	59	29.87	758.8	30.08	764.0	70.0	21.1	80.2	8	7	8	4	1	.....	1	2	.....	.....	.....	4	0	0
Serra da Estrella	N. 40 25	W. 7 35	11.37 a.m.	4728	1441	25.39	644.9	30.00	762.1	61.3	16.3	57.1	3	8	10	.....	.....	3	6	1	.....	.....	.....	3	4.83	122.7
RUSSIAN.																										
Akmolinski *a*	N. 51 12	E. 71 23	4.54 p.m.	843?	306?	28.63	727.2	29.66	753.3	70.9	21.6	45.6	3	3	4	8	2	.....	1	7	1	.....	.....	5	1.75	44.5
Archangel	N. 64 33	E. 40 32	2.50 p.m.	16	5	29.84	757.9	29.86	758.4	66.0	18.9	62.8	1	5	10	3	2	4	1	3	2	.....	.....	6	1.04	26.5
Astrakhan	N. 46 21	E. 48 02	3.20 p.m.	68	21	29.90	761.0	29.88	758.9	86.5	30.3	38.6	1	2	2	1	3	14	6	2	.....	.....	.....	4	0.34	8.5
Barnaul	N. 53 20	E. 83 47	5.43 p.m.	459?	140?	29.22	742.2	29.70	754.3	69.6	20.9	56.3	2	9	3	5	1	3	1	4	3	.....	.....	7	3.10	78.7
Dorpat	N. 58 23	E. 26 43	1.55 p.m.	223	68	29.65	753.0	29.88	758.9	75.6	24.2	55.8	3	2	6	5	3	4	5	3	.....	.....	.....	6	3.92	99.7
Ekaterinburg	N. 56 49	E. 60 38	4.10 p.m.	894?	272?	28.84	732.6	29.77	756.1	68.9	20.5	50.2	10	6	7	4	1	1	.....	2	.....	.....	.....	6	0.94	23.9
Irkutsk	N. 52 16	E. 104 16	7.05 p.m.	1536	468	28.20	716.2	29.77	756.2	68.4	20.2	71.7	2	5	1	1	4	5	1	1	11	.....	.....	7	2.48	63.1
Kasan	N. 55 47	E. 49 08	3.24 p.m.	249	76	29.60	751.9	29.86	758.3	77.9	25.5	46.9	6	5	7	5	4	.....	.....	1	3	.....	.....	7	0.68	17.3
Kertch	N. 45 21	E. 36 29	2.34 p.m.	18?	6?	29.72	754.9	29.74	755.4	82.6	28.1	65.1	1	3	.....	....	7	7	6	6	1	.....	.....	3	0.03	0.8
Kieff	N. 50 27	E. 30 30	2.10 p.m.	600	183	29.17	740.8	29.76	755.9	80.6	27.0	49.5	4	5	1	3	3	5	5	3	2	.....	.....	5	3.23	82.0
Lugan	N. 48 35	E. 39 20	2.45 p.m.	188?	57?	29.60	751.8	29.79	756.7	88.0	31.1	35.2	.....	1	2	4	2	5	11	6	.....	.....	.....	5	3.00	77.7
Moscow	N. 55 46	E. 37 40	2.39 p.m.	448	136	29.38	746.3	29.83	757.6	77.5	25.3	49.9	2	2	.....	6	6	6	2	.....	7	.....	.....	4	.....	.....
Nikolaiev	N. 46 58	E. 31 58	2.16 p.m.	62	19	29.73	755.1	29.80	756.9	89.8	32.1	43.1	4	1	2	6	7	3	5	2	1	.....	.....	2	0.07	1.8
Pekin	N. 39 57	E. 116 28	7.54 p.m.	123?	38?	29.54	750.3	29.68	753.9	80.1	26.7	70.5	.....	3	.....	5	.....	4	.....	1	18	.....	.....	5	5.65	168.8
St. Petersburg	N. 59 56	E. 30 16	2.09 p.m.	15	5	29.86	758.4	29.88	758.8	71.1	21.7	55.0	4	10	3	1	4	4	2	3	.....	.....	.....	5	2.91	74.0
Semipalatinsk	N. 50 24	E. 80 13	5.29 p.m.	607?	185?	29.08	738.6	29.69	754.2	78.1	25.6	41.8	5	10	3	1	.....	.....	2	4	6	.....	.....	6	0.07	1.8
Tashkend	N. 41 19	E. 69 16	4.45 p.m.	1493?	455?	28.17	715.5	29.63	752.5	86.9	30.5	41.2	.....	1	.....	.....	.....	1	.....	.....	29	.....	.....	2	0	0
Tiflis	N. 41 43	E. 44 47	3.07 p.m.	1343	409	28.44	722 3	29.76	755.8	92.1	33.4	29.4	.....	3	1	.....	10	12	2	.....	3	.....	.....	3	0.48	12.2
Vladivostock	N. 43 09	E. 132 00	8.56 p.m.	59?	18?	29.73	755.1	29.80	756.8	64.0	17.8	90.4	.....	1	.....	1	2	13	7	.....	7	.....	.....	7	2.28	57.9
Warsaw	N. 52 13	E. 21 02	1.32 p.m.	392	119	29.46	748.2	29.86	758.4	74.8	23.8	53.8	5	7	5	.....	1	3	5	5	.....	.....	.....	8	.....	.....
Wilna	N. 54 41	E. 25 18	1.49 p.m.	388	118	29.47	748.6	29.87	758.7	75.6	24.2	58.7	1	5	4	3	2	10	3	3	.....	.....	.....	6	1.95	49.6
Yeniseisk	N. 58 27	E. 92 06	6.16 p.m.	262?	80?	29.50	749.2	29.78	756.3	64.6	18.1	90.2	.....	2	13	5	2	2	2	1	4	.....	.....	5	4.42	112.4
SCOTTISH.																										
Monach Light H.	N. 57 31	W. 7 42	11.37 a.m.	150	46	.....	.....	29.63	752.6	59.5	15.3	94.0	1	1	2	12	10	3	.....	.....	2	.....	.....	7	4.10	104.1
North Unst	N. 69 51	W. 0 53	0.04 p.m	230	70	.....	.....	29.70	754.4	.....	.....	.....	1	2	3	4	9	11	1	.....	.....	.....	.....	5	blank	blank
SPANISH.																										
Barcelona	N. 41 23	E. 2 11	0.16 p.m.	98	30	29.99	761.8	30.10	764.4	78.8	26.0	61	.....	.....	.....	11	9	10	1	.....	.....	2207	3552	1	0.61	15.5
Bilbao	N. 43 15	W. 2 59	11.56 a.m.	52	16	30.03	762.7	30.09	764.2	76.8	24.9	55	5	20	2	.....	1	1	.....	1	1	1888	3038	5	1.99	50.6
Burgos	N. 42 20	W. 3 46	11.53 a.m.	2821	860	27.14	689.4	30.02	762.5	69.3	20.7	49	6	.....	4	10	1	.....	1	9	.....	6081	9786	3	1.94	49.2
Madrid	N. 40 25	W. 3 42	11.53 a.m.	2152	656	27.83	706.9	29.95	760.6	82.4	28.0	38.3	2	2	3	12	2	1	3	5	1	761	1224	2	0.02	15.8
Santiago	N. 42 53	W. 8 28	11.34 a.m.	863	263	29.15	740.4	30.02	762.6	68.2	20.1	67	3	1	5	10	1	.....	.....	8	3	787	1267	6	4.08	103.6
Sub-Series.																										
Manilla	N. 14 35	E. 120 56	8.12 p.m.	54	16	29.76	756.0	29.82	757.4	79.8	26.6	84.5	2	2	3	7	8	2	6	1	.....	.....	.....	7	21.33	541.7
San Fernando	N. 36 28	W. 6 13	11.43 a.m.	95	29	29.97	761.1	30.06	763.5	78.2	25.4	59	.....	3	12	4	3	1	6	.....	2	.....	.....	3	0.02	0.5
San Juan de Porto Rico	N. 18 30	W. 66 10	7.44 a.m.	82	25	30.03	762.7	30.12	765.1	81.1	27.3	84	.....	.....	.....	.....	.....	13	7	.....	11	.....	.....	3	8.50	215.8
Tuguegarao	N. 17 37	E. 121 30	8.15 p.m.	125	38	29.66	753.4	29.79	756.7	82.8	28.2	85.9	2	17	.....	4	4	3	1	.....	.....	.....	.....	7	3.78	96.0
SWEDISH.																										
Haparanda	N. 65 47	E. 24 03	1.44 p.m.	29	9	29.80	756.9	29.84	757.9	62.8	17.1	70	5	.....	.....	11	9	3	.....	3	.....	.....	.....	6	0.92	23.5
Umea	N. 63 50	E. 20 17	1.29 p.m.	39	12	29.77	756.2	29.82	757.5	67.3	19.6	60	2	1	.....	13	5	4	5	1	.....	.....	.....	5	2.36	59.9
Hernosand	N. 62 32	E. 17 57	1.20 p.m.	46	14	29.75	755.7	29.80	757.0	64.0	17.8	63	1	2	1	3	12	1	4	6	1	.....	.....	5	2.36	60.0
Stockholm	N. 59 20	E. 18 04	1.20 p.m.	144	44	29.65	753.2	29.83	757.7	68.7	20.4	58	1	1	9	5	4	7	4	.....	.....	.....	.....	4	3.71	94.2
Wisby	N. 57 39	E. 18 19	1.20 p.m.	52	16	29.77	756.1	29.83	757.0	67.8	19.9	67	7	2	6	7	2	4	2	1	.....	.....	.....	4	3.28	83.3
Sub-Series.																										
Upsala	N. 59 51	E. 17 37	1.19 p.m.	79	24	29.71	754.7	29.80	756.9	69.1	20.6	58.2	1	4	2	7	8	4	3	2	.....	.....	.....	6	3.04	77.3
SWISS.																										
Geneva	N. 46 12	E. 6 08	0.33 p.m.	1338	408	28.60	726.5	29.98	761.6	68.5	20.3	61.5	16	1	3	4	4	1	1	1	.....	.....	.....	6	3.21	81.5

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
	° ′	° ′																							°	°
TURKISH.																										
Constantinople	N. 41 00	E. 28 59	2.04 p.m.	230	70	.....	.....	29.85	758.1	82.6	28.1	53.	7	.....	1	.....	3	1	2	14	3	.....	.....	3	0	0
Valona	N. 40 27	E. 19 27	1.25 p.m.	105	32	.....	.....	30.03	762.8	83.1	28.4	.....	.....	10	5	7	9	.....	.....	.....	.....	.....	.....	2	0.47	12.
Sub-Series.																										
Beirut	N. 33 54	E. 35 28	2.30 p.m.	111	34	.....	.....	29.76	756.0	85.5	29.7	59.5	.....	.....	15	16	.....	.....	.....	.....	.....	.....	.....	2	0	0
UNITED STATES.																										
Albany	N. 42 40	W. 73 45	7.13 a.m.	75	23	29.93	760.2	30.01	762.2	70.8	21.6	70.2	4	3	4	6	12	.....	1	1	.....	3671	5908	5	3.97	100.8
Alpena	N. 45 05	W. 83 28	6.34 a.m.	609	185	29.33	745.0	29.97	761.2	61.0	16.1	78.4	.....	6	12	5	3	3	.....	2	.....	6506	10470	5	1.48	37.6
Apache, Fort	N. 33 47	W. 109 58	4.49 a.m.	5050	1539	25.11	637.8	29.85	758.2	58.6	14.8	71.8	.....	.....	.....	1	.....	3	14	13	.....	4625	7443	4	4.79	121.7
Assinnaboine, Ft.	N. 48 37	W. 109 43	4.49 a.m.	2710	826	27.19	690.6	29.92	760.0	57.2	14.0	65.9	.....	.....	.....	23	.....	3	.....	5	.....	7051	11347	3	1.37	34.8
Atlanta	N. 33 45	W. 84 23	6.31 a.m.	1131	345	28.95	735.3	30.10	764.5	70.6	21.4	83.2	1	10	5	2	2	2	6	2	1	5377	8653	6	6.61	167.9
Atlantic City	N. 39 22	W. 74 25	7.11 a.m.	13	4	30.01	762.2	30.02	762.5	71.6	22.0	82.3	1	3	3	10	5	.....	2	7	.....	5804	9340	5	2.52	64.0
Augusta	N. 33 28	W. 81 54	6.41 a.m.	183	56	29.93	760.2	30.12	765.0	74.0	23.3	82.2	2	2	2	4	2	3	.....	4	12	2577	4147	6	3.86	98.0
Baltimore	N. 39 18	W. 76 38	7.02 a.m.	45	14	30.02	762.5	30.07	763.8	73.3	22.9	71.9	8	10	1	4	5	1	2	.....	.....	4213	6780	5	4.02	102.1
Barnegat	N. 39 48	W. 74 09	7.12 a.m.	20	6	30.00	762.0	30.02	762.5	72.7	22.6	78.6	4	4	9	6	2	1	5	.....	.....	7208	11600	5	3.92	99.6
Bennett, Fort	N. 44 42	W. 100 38	5.26 a.m.	1510	457	28.41	721.6	29.95	760.7	61.1	16.2	84.8	1	11	2	1	.....	11	1	1	3	6955	11193	4	2.29	58.2
Benton, Fort *a*	N. 47 51	W. 110 40	4.45 a.m.	2700	823	27.22	691.4	29.92	760.0	57.7	14.3	67.3	2	3	7	4	.....	.....	2	1	11	5970	9617	3	0.85	21.6
Behring Id	N. 55 12	E. 165 55	11.12 p.m.	20	6	29.74	755.4	29.76	755.9	46.6	8.1	.....	2	.....	.....	8	12	4	3	2	.....	8011	12892	9	1.45	36.8
Bismarck *a*	N. 46 48	W. 100 38	5.26 a.m.	1694	516	28.17	715.5	29.89	759.2	60.3	15.7	82.8	4	6	3	2	2	3	8	1	1	7545	12142	4	4.31	109.5
Block Id	N. 41 10	W. 71 37	7.22 a.m.	27	8	29.99	761.7	30.02	762.5	68.2	20.1	83.5	1	3	9	7	.....	2	2	2	5	7720	12424	4	3.62	91.9
Boise City	N. 43 46	W. 116 06	4.24 a.m.	2750	838	27.20	690.9	29.92	760.0	64.4	18.0	57.5	8	4	12	2	.....	.....	.....	2	3	3476	5594	2	Imp.	Imp.
Boston	N. 42 21	W. 71 04	7.23 a.m.	142	43	29.85	758.2	30.00	762.0	67.6	19.8	73.5	2	1	14	6	2	3	.....	1	2	5250	8449	5	3.91	99.3
Brownsville	N. 26 00	W. 97 30	5.38 a.m	43	13	29.94	760.5	29.98	761.5	78.1	25.6	90.0	1	.....	.....	.....	15	8	1	1	5	6432	10351	3	0.70	17.8
Buffalo	N. 42 53	W. 78 55	6.52 a.m.	696	212	29.27	743.4	30.00	762.0	65.4	18.6	75.5	1	3	2	4	13	1	1	3	3	6734	10837	5	1.19	30.2
Buford, Fort	N. 48 03	W. 103 58	5.12 a.m.	1900	579	28.01	711.4	29.95	760.7	56.9	13.8	75.5	2	2	8	2	1	.....	6	7	3	5954	9582	4	2.25	57.1
Burlington	N. 44 29	W. 73 13	7.15 a.m.	268	82	29.67	753.6	29.95	760.7	67.0	19.4	75.5	2	1	8	2	12	.....	1	2	3	4769	7675	5	2.37	60.2
Cairo	N. 37 00	W. 89 12	6.11 a.m.	377	115	29.70	754.4	30.09	764.3	72.0	22.2	80.7	4	.....	1	5	4	1	1	8	7	4296	6914	5	5.25	133.4
Campc	N. 32 22	W. 116 08	4.22 a.m.	2500	762	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Camp Thomas	N. 33 04	W. 110 06	4.49 a.m.	2710	826	27.22	691.4	29.82	757.4	74.1	23.4	60.1	2	1	2	1	7	8	3	.....	7	.....	.....	4	0.88	22.4
Cape Henry	N. 36 56	W. 76 00	7.04 a.m.	16	5	30.04	763.0	30.06	763.5	74.0	23.3	83.7	3	3	5	8	6	.....	3	3	.....	7056	11335	5	5.73	145.5
Cape May *a*	N. 38 56	W. 74 58	7.08 a.m.	27	8	30.02	762.5	30.04	763.0	71.5	21.9	84.1	1	4	5	2	9	1	3	2	.....	7582	12202	5	3.49	88.6
Cedar Keys	N. 29 12	W. 83 02	6.36 a.m.	22	7	30.09	764.3	30.11	764.8	79.6	26.4	80.0	1	2	5	3	3	4	10	3	.....	5665	9117	5	10.33	262.4
Champaign	N. 40 07	W. 88 14	6.15 a.m.	767	234	29.24	742.7	30.03	762.7	65.2	18.4	74.5	6	3	7	3	5	3	2	2	.....	6975	11225	5	2.44	62.0
Charleston	N. 32 45	W. 79 55	6.49 a.m.	52	16	30.03	762.7	30.08	764.0	78.6	25.9	79.9	5	.....	6	14	1	.....	.....	5	.....	5633	9065	5	5.35	135.9
Charlotte	N. 35 13	W. 80 51	6.45 a.m.	808	246	29.22	742.2	30.06	763.5	74.2	23.4	72.0	2	2	2	12	1	1	3	8	.....	3545	5705	5	5.39	136.9
Chattanooga	N. 35 04	W. 85 15	6.27 a.m.	783	239	29.30	744.2	30.10	764.5	70.0	21.1	86.8	3	2	1	10	3	.....	1	4	7	3574	5752	6	2.52	64.0
Cheyenne	N. 41 12	W. 104 42	5.09 a.m.	6089	1856	24.18	614.2	29.87	758.7	52.5	11.4	68.8	5	13	5	8	.....	.....	.....	.....	.....	6114	9839	3	2.30	58.4
Chicago	N. 41 52	W. 87 35	6.18 a.m.	661	201	29.32	744.7	30.01	762.2	65.6	18.7	74.1	2	4	7	9	3	.....	2	4	.....	5573	8969	4	3.43	87.1
Chincoteague	N. 37 55	W. 75 20	7.06 a.m.	18	5	30.02	762.5	30.04	763.0	73.0	22.8	86.7	6	8	1	5	6	.....	4	.....	1	5562	8951	5	2.13	54.1
Cincinnati	N. 39 06	W. 84 26	5.30 a.m.	620	189	29.42	747.3	30.06	763.5	69.3	20.7	76.8	10	.....	4	3	3	2	9	.....	.....	3626	5835	5	2.91	73.9
Cleveland	N. 41 30	W. 81 47	6.42 a.m.	690	210	29.32	744.7	30.04	763.0	65.7	18.7	74.0	3	1	2	5	12	6	.....	2	.....	5494	8842	4	5.27	133.9
Coleman City *a*	N. 31 55	W. 99 10	5.32 a.m.	1709	521	28.25	717.5	30.01	762.2	71.5	21.9	86.5	1	2	1	4	5	12	1	3	1	5214	8391	6	6.61	167.9
Columbus	N. 39 57	W. 83 03	6.36 a.m.	805	245	29.21	741.9	30.04	763.0	65.1	18.4	78.0	8	2	4	5	6	.....	2	2	2	4126	6640	5	2.62	66.5
Concho	N. 31 22	W. 100 20	5.26 a.m.	1900	579	28.12	714.2	30.00	762.0	71.9	22.2	82.3	2	1	.....	.....	7	2	8	3	8	6269	10089	5	5.57	141.5
Custer, Fort	N. 45 48	W. 107 38	4.58 a.m.	3040	927	26.86	682.2	29.88	758.9	57.4	14.1	74.3	3	3	2	4	7	6	2	2	2	5331	8579	4	0.54	13.7
Davenport	N. 41 32	W. 90 30	6.06 a.m.	615	187	29.39	746.5	30.02	762.5	65.1	18.4	80.4	4	8	2	4	4	1	4	2	2	5517	8879	5	4.41	112.0
Davis, Fort	N. 30 30	W. 103 45	5.13 a.m.	4940	1506	25.30	642.6	29.94	760.5	68.6	20.3	67.6	7	.....	.....	6	2	3	1	.....	12	4178	6724	4	3.28	83.3
Dayton	N. 46 23	W. 117 50	4.16 a.m.	1660	506	28.30	718.8	30.01	762.2	54.8	12.7	71.8	3	.....	1	15	.....	2	1	2	7	2877	4630	2	0.83	21.1
Deadwood	N. 44 22	W. 103 34	5.14 a.m.	4600	1402	25.45	646.4	29.87	758.7	56.6	13.7	74.1	2	.....	3	14	8	2	.....	.....	2	3800	6115	3	4.81	122.2
Decatur *g*	N. 33 10	W. 97 30	5.38 a.m.	1129	344	.....	.....	.....	.....	74.7	23.7	60.6	1	.....	.....	2	10	10	.....	1	.....	5406	8700	5	15.23	386.8
Del. Breakwater	N. 38 48	W. 75 05	7.08 a.m.	20	6	30.02	762.5	30.04	763.0	70.3	21.3	89.2	3	5	7	10	.....	1	2	3	.....	8452	13602	5	3.35	85.1
Denison *b*	N. 33 50	W. 96 40	5.41 a.m.	767	234	29.23	742.4	30.01	762.2	72.4	22.4	85.2	3	.....	1	3	6	3	3	1	9	4188	6740	5	6.32	160.5
Denver	N. 39 45	W. 105 04	5.08 a.m.	5294	1614	24.86	631.4	29.87	758.7	00.6	15.9	62.0	4	8	.....	2	16	1	.....	.....	.....	4927	7929	2	0.66	16.8
Des Moines	N. 41 35	W. 93 40	5.53 a.m.	849	259	29.15	740.4	30.03	762.7	62.7	17.1	82.9	5	4	3	5	2	3	.....	2	7	4430	7129	5	4.78	121.4
Detroit	N. 42 21	W. 83 07	6.36 a.m.	661	201	29.33	745.0	30.02	762.5	65.4	18.6	77.7	4	5	5	7	6	2	.....	1	1	6537	10520	4	1.65	41.9
Dodge City	N. 37 39	W. 100 08	5.27 a.m.	2512	766	27.46	697.5	29.96	761.0	65.5	18.6	81.6	5	1	.....	4	13	2	1	5	.....	8845	14234	5	3.04	77.2
Dubuque	N. 42 30	W. 90 44	6.05 a.m.	665	203	29.32	744.7	30.01	762.2	63.1	17.3	77.6	.....	7	7	3	7	1	4	.....	2	3693	5943	4	1.48	37.6
Duluth	N. 46 48	W. 92 08	6.00 a.m.	644	184	29.23	742.4	29.95	760.7	59.8	15.4	77.2	3	5	7	5	.....	.....	.....	8	3	7617	12258	6	4.92	125.0
Eagle Pass	N. 28 40	W. 100 15	5.26 a.m.	780	238	29.22	742.2	30.01	762.2	76.7	24.8	76.5	.....	.....	.....	.....	.....	25	1	1	4	4044	7474	4	3.54	89.9
Eagle Rock	N. 43 30	W. 112 04	4.40 a.m.	4650	1415	25.35	643.9	29.90	759.4	51.1	10.6	57.8	8	.....	2	5	9	.....	.....	.....	7	8555	13868	1	0.30	7.6
Eastport	N. 44 55	W. 66 54	7.40 a.m.	61	18	29.89	759.2	29.95	760.7	59.8	15.4	78.9	3	1	1	7	9	.....	1	5	4	4055	7491	5	4.80	121.9
Elliott, Fort	N. 35 31	W. 100 27	5.28 a.m.	2650	808	27.28	692.9	29.92	760.0	64.5	18.1	70.4	6	1	.....	.....	5	12	1	3	3	7052	11349	5	5.65	143.5
El Paso	N. 31 46	W. 106 32	5.02 a.m.	3760	1146	26.30	668.0	29.90	759.4	71.8	22.1	62.6	.....	9	1	1	.....	.....	2	17	1	4054	6524	4	1.26	32.0
Erie	N. 42 07	W. 80 10	6.47 a.m.	681	208	29.31	744.5	30.02	762.5	67.2	19.6	74.9	.....	1	3	7	13	1	1	1	4	4049	6516	4	3.80	96.5
Escanaba	N. 45 46	W. 87 14	6.20 a.m.	612	186	29.32	744.7	29.96	761.0	61.1	16.2	77.8	8	6	4	3	5	.....	.....	1	4	5797	9329	5	3.28	83.3
Fredericksburg	N. 30 20	W. 98 40	5.33 a.m.	1700	518	28.31	719.1	30.01	762.2	73.1	22.8	82.2	2	.....	1	6	8	.....	.....	1	13	4158	6692	5	4.28	108.7
Galveston	N. 29 18	W. 94 50	5.49 a.m.	48	15	30.00	762.0	30.05	763.3	80.3	26.8	80.6	3	2	.....	8	10	3	1	4	.....	8946	14397	5	4.34	110.2
Grand Haven	N. 43 05	W. 86 18	6.23 a.m.	620	189	29.36	745.7	30.01	762.2	65.4	18.6	75.2	3	5	3	2	8	3	3	2	2	7444	11980	3	3.72	94.5
Grant, Fort	N. 32 25	W. 109 56	4.49 a.m.	4860	1481	25.30	642.6	29.87	758.7	70.0	21.1	55.8	1	5	.....	.....	2	4	4	10	5	5250	8449	5	2.02	51.3
Hatteras	N. 35 14	W. 75 30	7.06 a.m.	19	6	30.05	763.3	30.07	763.8	76.8	24.9	84.8	2	3	5	11	.....	.....	2	8	.....	11318	18214	6	7.26	184.4
Helena	N. 46 33	W. 112 02	4.40 a.m.	4100	1250	25.87	657.1	29.93	760.2	58.0	14.4	56.4	.....	.....	12	10	3	1	.....	.....	5	5204	8375	4	0.36	9.1
Henrietta *a*	N. 33 42	W. 98 00	5.36 a.m.	980	300	29.07	738.4	30.05	763.3	76.3	24.6	76.2	4	.....	.....	.....	8	9	3	1	5	6318	10168	5	4.51	114.6
Huron	N. 44 21	W. 98 17	5.35 a.m.	1305	398	28.62	726.9	29.94	760.5	59.1	15.1	85.7	3	7	2	.....	5	10	2	2	.....	7436	11967	4	5.88	149.4
Indianapolis	N. 39 47	W. 86 00	6.24 a.m.	753	229	29.27	743.4	30.04	763.0	68.3	20.2	74.7	4	2	1	4	6	4	1	3	6	3183	5122	4	3.43	87.1
Indianola	N. 28 32	W. 96 38	5.42 a.m.	26	8	30.01	762.2	30.04	763.0	79.2	26.2	87.9	.....	.....	2	4	16	3	.....	4	2	8703	14006	4	2.45	62.2
Jacksboro	N. 33 10	W. 98 00	5.35 a.m.	1120	341	28.88	733.5	30.00	762.0	72.6	22.6	85.5	1	3	.....	5	6	10	4	2	.....	5577	8975	5	10.51	267.0
Jacksonville	N. 30 24	W. 81 40	6.41 a.m.	43	13	30.06	763.5	30.10	764.5	79.8	26.6	80.2	1	.....	2	9	5	3	.....	3	8	4072	6553	5	5.75	146.0
Keogh, Fort	N. 46 17	W. 105 55	5.05 a.m.	2372	723	27.48	698.0	29.90	759.4	60.4	15.8	68.9	4	5	.....	6	1	7	3	5	.....	7959	12809	3	0.58	14.7
Keokuk	N. 40 23	W. 91 25	6.02 a.m.	618	188	29.38	746.2	30.01	762.2	67.7	19.8	76.3	6	4	.....	3	5	2	2	1	8	3839	6178	4	4.53	115.1
Key West	N. 24 32	W. 81 48	6.41 a.m.	20	6	30.06	763.5	30.08	764.0	84.4	29.1	71.6	.....	.....	.....	2	5	10	10	3	1	4452	7165	4	4.45	113.0
KittyHawk	N. 36 00	W. 75 23	7.05 a.m.	22	7	30.06	763.5	30.08	764.0	74.7	23.7	86.0	3	2	8	7	.....	1	7	2	1	8437	13578	5	15.36	390.1
Knoxville	N. 35 56	W. 83 58	6.32 a.m.	980	299	29.10	739.1	30.10	764.5	67.6	19.8	91.7	1	.....	2	4	1	1	5	11	6	3427	5515	6	6.25	153.0
La Crosse	N. 43 48	W. 91 23	6.03 a.m.	725	221	29.23	742.4	29.98	761.5	65.2	18.4	70.9	5	1	2	9	8	3	1	1	1	5388	8671	5	2.96	75.2
La Mesilla	N. 32 17	W. 106 48	5.48 a.m.	3900	1189	26.15	664.2	29.89	759.2	66.9	19.4	68.6	1	.....	.....	1	.....	3	.....	.....	26	1423	2290	5	1.32	33.5
Leavenworth	N. 39 19	W. 94 57	5.10 a.m.	842	256	29.18	741.2	30.04	763.0	66.7	19.3	78.6	2	5	.....	.....	9	.....	2	.....	13	3894	6267	4	3.44	87.4
Lewiston	N. 46 25	W. 116 59	4.20 a.m.	780	238	29.19	741.4	30.00	762.0	63.6	17.6	54.3	.....	1	4	.....	.....	3	14	2	7	3030	4876	3	0.29	7.4
Little Rock	N. 34 40	W. 92 12	5.59 a.m.	298	91	29.76	755.9	30.07	763.8	71.6	22.0	88.5	3	5	4	4	3	3	3	3	3	3497	5628	6	5.17	131.3
Los Angeles	N. 34 03	W. 118 16	4.15 a.m.	371	113	29.62	752.3	30.02	762.5	59.3	15.2	81.9	2	1	1	11	5	6	3	2	.....	4161	6696	4	0	0
Louisville	N. 38 18	W. 85 52	6.25 a.m.	530	162	29.49	749.0	30.04	763.0	69.7	20.9	80.4	8	1	3	2	8	3	1	1	4	4333	6973	6	4.57	116.1
Lynchburg	N. 37 30	W. 79 02	6.52 a.m.	652	199	29.40	746.7	30.07	763.8	71.6	22.0	73.4	.....	4	5	4	3	3	.....	3	9	1910	3074	6	4.10	104.1
Macon, Fort	N. 34 42	W. 76 40	7.01 a.m.	11	3	30.06	763.5	30.07	763.8	76.3	24.6	86.3	4	5	5	9	.....	1	.....	7	.....	9083	14617	6	5.98	151.9
Madison	N. 43 03	W. 89 30	6.10 a.m.	949	289	29.02	737.1	30.00	762.0	61.5	16.4	85.2	4	7	6	4	3	4	2	1	.....	5884	9469	4	2.70	68.6
Maginnis Fort *o*	N. 47 12	W. 109 10	4.51 a.m.	4340	1324	25.66	651.8	.....	.....	56.7	13.7	57.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	4405	7089	2	0.19	4.8
McKavett, Fort	N. 30 48	W. 99 58	5.28 a.m.	2240	683	27.83	706.9	30 03	762.7	72.2	22.3	80.9	.....	1	.....	4	9	5	2	5	5	5315	8554	4	5.33	135.4
Marquette	N. 46 33	W. 87 36	6.19 a.m.	673	205	29.25	742.9	29.96	761.0	61.2	16.2	72.4	3	6	10	5	2	.....	.....	.....	5	6056	9746	5	2.76	70.1
Memphis	N. 35 07	W. 90 07	6.08 a.m.	321	98	29.74	755.4	30.07	763.8	73.1	22.8	82.1	3	2	3	3	5	8	2	4	1	4206	6769	5	4.13	104.9
Milwaukee	N. 43 03	W. 87 54	6.17 a.m.	697	212	29.27	743.4	30.00	762.0	62.5	16.9	80.4	5	5	9	5	4	.....	3	.....	.....	7613	12252	4	1.58	40.1
Missoula, Fort	N. 46 50	W. 114 01	4.32 a.m.	3140	957	26.79	680.5	29.98	761.5	54.3	12.4	69.0	1	7	2	12	4	2	1	1	1	3038	4889	3	0.63	16.0
Mobile	N. 30 42	W. 87 59	6.16 a.m.	41	12	30.06	763.5	30.10	764.5	74.5	23.6	88.6	8	3	5	2	1	.....	2	8	2	3607	5805	6	9.52	241.8
Montgomery	N. 32 22	W. 86 23	6.23 a.m.	219	66	29.87	758.7	30.09	764.3	73.3	22.9	83.5	2	5	1	8	2	5	3	2	3	3050	4908	6	6.29	159.8
Moorhead	N. 46 52	W. 96 40	5.41 a.m.	923	281	28.96	735.6	29.92	760.0	58.4	14.7	86.2	6	4	1	1	9	4	.....	1	5	7635	12287	5	4.92	125.0
Morgantown	N. 39 36	W. 79 52	6.48 a.m.	963	293	29.09	738.9	30.09	764.3	67.1	19.5	83.6	1	.....	1	7	1	2	.....	2	17	2571	4138	4	3.64	92.5
Mt. Washington	N. 44 16	W. 71 16	7.22 a.m.	6279	1914	23.88	606.5	29.95	760.7	44.6	7.0	92.6	2	20	3	1	1	1	1	2	.....	25082	40365	4	10.03	254.8
Nashville	N. 36 11	W. 86 53	6.21 a.m.	507	154	29.54	750.3	30.06	763.5	71.1	21.7	81.9	2	2	5	7	1	2	2	1	9	2217	3568	6	4.00	101.6
New Haven	N. 41 17	W. 72 57	7.16 a.m.	107	32	29.90	759.4	30.01	762.2	68.0	20.0	79.0	3	4	4	7	3	3	.....	3	4	4170	6711	4	3.03	77.0
New London	N. 41 22	W. 72 09	7.19 a.m.	47	14	29.98	761.5	30.02	762.5	69.4	20.8	79.2	2	2	2	4	3	1	1	1	14	3694	5945	4	3.02	76.7
New Orleans	N. 29 58	W. 90 07	6.08 a.m.	52	16	30.02	762.5	30.07	763.8	78.1	25.6	82.2	2	2	.....	4	7	5	4	2	5	4135	6654	6	6.84	173.7

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea		Result of Simultaneous Observations for July, 1882.																			Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.														
						Actual.		Reduced.					Directions.									Total Movement.					
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.	0-10	Inch.	Mill.
U. S.—Continued.	° ′	° ′																									
Newport	N. 41 29	W. 71 19	7.23 a.m.	44	13	29.97	761.2	30.02	762.5	69.1	20.6	80.5	1	1	3	17	3	2	.....	3	1	4935	7942	4	2.18	55.4
New York	N. 40 43	W. 74 00	7.12 a.m.	104	50	29.86	758.4	30.03	762.7	70.2	21.2	77.5	2	3	8	9	1	1	3	4	.....	4879	7852	4	2.75	69.8
Norfolk	N. 36 51	W. 76 19	7.03 a.m.	30	9	30.03	762.7	30.06	763.5	75.9	24.4	82.2	5	1	5	9	2	.....	4	2	3	4397	7076	5	4.90	124.5
North Platte...*a*	N. 41 08	W. 100 53	5.24 a.m.	2841	866	27.14	689.3	29.94	760.5	63.3	17.4	79.3	3	3	3	.....	2	7	6	2	4	6495	10452	3	2.65	67.3
Olympia *a*	N. 47 02	W. 122 56	3.56 a.m.	36	11	30.07	763.8	30.11	764.8	51.9	11.1	84.1	4	.....	3	1	9	.....	.....	.....	13	2702	4445	5	0.67	17.0
Omaha	N. 41 16	W. 96 00	5.45 a.m.	1113	339	28.89	733.8	30.02	762.5	66.9	19.4	79.0	6	8	2	1	6	3	3	.....	2	5950	9575	5	6.76	171.7
Ooglaamie	N. 71 17	W. 156 40	1.41 a.m.	17	5	29.79	756.7	29.81	757.2	39.4	4.1	96.4	1	2	2	6	2	3	10	4	1	8024	12913	8	1.47	37.3
Oswego	N. 43 29	W. 76 35	7.01 a.m.	304	93	29.66	753.4	29.98	761.5	67.6	19.8	74.1	1	3	9	5	9	2	.....	2	.....	4925	9926	4	1.12	28.4
Palestine	N. 31 45	W. 95 40	5.45 a.m.	523	162	29.53	750.0	30.07	763.8	73.9	23.3	87.7	1	.....	.....	7	8	2	5	8	.....	6211	9995	5	6.52	165.6
Pensacola	N. 30 25	W. 87 12	6.19 a.m.	30	9	30.06	763.5	30.09	764.3	75.7	24.3	88.0	3	3	4	4	3	2	3	6	3	4511	7260	6	7.02	178.3
Philadelphia	N. 39 57	W. 75 10	7.07 a.m.	92	28	29.95	760.7	30.05	763.3	73.4	23.0	69.6	.....	9	5	9	.....	2	1	4	1	3926	6318	5	1.37	34.8
Pike's Peak	N. 38 50	W. 105 02	5.08 a.m.	14134	4308	18.04	458.2	29.82	757.4	34.2	1.2	74.6	2	14	8	2	.....	1	.....	4	.....	5865*d*	9439*d*	5	2.13	54.1
Pioche	N. 37 57	W. 114 26	4.30 a.m.	6110	1862	24.14	613.1	29.87	758.7	61.8	16.6	40.7	.....	10	2	3	11	1	.....	.....	4	5010	8063	2	0.21	5.3
Pittsburg	N. 40 32	W. 80 02	6.48 a.m.	762	232	29.25	742.9	30.04	763.0	65.4	18.6	82.7	1	6	4	5	4	1	2	3	5	3528	5618	5	1.99	50.6
Poplar River	N. 48 08	W. 105 10	5.07 a.m.	2030	619	27.86	707.6	.....	.....	.....	.....	.....	.....	8	.....	5	2	10	.....	6	.....	.....	.....	2	0.00	15.2
Port Eads	N. 29 00	W. 89 15	6.11 a.m.	7	2	30.08	764.0	30.09	764.3	78.7	25.9	85.9	3	.....	2	6	5	7	.....	4	4	5209	8383	4	13.68	147.5
Port Huron	N. 42 58	W. 82 29	6.38 a.m.	633	193	29.34	745.2	30.00	762.0	64.0	17.8	79.1	4	1	5	7	8	.....	1	1	4	5662	9112	5	1.91	48.5
Portland, Maine	N. 43 40	W. 70 16	7.27 a.m.	45	14	29.91	759.7	29.96	761.0	67.8	19.9	73.0	4	3	12	4	4	.....	2	2	.....	5383	8663	4	2.00	50.8
Portland, Oregon	N. 45 30	W. 122 28	3.57 a.m.	67	20	30.03	762.7	30.10	764.5	56.1	13.4	80.5	5	8	1	.....	5	.....	.....	.....	12	3897	6272	3	0.95	24.1
Prescott	N. 34 29	W. 112 13	4.38 a.m.	5340	1628	24.89	632.2	29.88	758.9	61.5	16.4	64.7	.....	.....	.....	5	22	.....	3	.....	1	4363	7021	3	1.64	41.7
Provincetown	N. 46 03	W. 70 11	7.27 a.m.	26	8	29.97	761.2	30.00	762.0	68.5	20.3	78.9	3	6	6	5	7	1	.....	2	1	5538	8912	5	1.43	36.3
Punta Rassa	N. 26 36	W. 82 10	6.40 a.m.	13	4	30.08	764.0	30.09	764.3	79.4	26.3	81.1	.....	.....	2	5	.....	.....	20	4	.....	6145	9889	6	5.58	141.7
Red Bluff	N. 40 10	W. 122 16	3.59 a.m.	350	106	29.56	750.8	29.92	760.0	71.0	21.7	48.1	7	1	1	1	6	7	.....	.....	8	3763	6056	1	inap.	inap.
Rio Grande City	N. 26 22	W. 98 45	5.33 a.m.	230	70	29.78	756.4	30.01	762.2	79.5	26.4	75.9	.....	.....	.....	.....	.....	23	6	.....	2	7380	11877	2	1.48	37.6
Rochester	N. 43 08	W. 77 51	6.58 a.m.	621	189	29.34	745.2	29.99	761.7	63.8	17.7	81.8	.....	2	11	13	.....	.....	1	1	3	7061	11363	5	1.17	29.7
Roseburg *a*	N. 43 10	W. 123 16	3.55 a.m.	511	156	29.55	750.6	30.09	764.3	54.1	12.3	80.8	.....	1	.....	.....	.....	.....	.....	.....	29	2258	3634	2	0.85	21.6
Sacramento	N. 38 35	W. 121 31	4.02 a.m.	65	20	29.84	757.9	29.91	759.7	62.2	16.8	70.9	.....	1	.....	.....	10	17	1	.....	2	5443	8760	0	inap.	inap.
Saint Louis	N. 38 37	W. 90 15	6.07 a.m.	568	173	29.48	748.8	30.06	763.5	68.3	20.2	88.3	7	4	2	4	5	3	1	1	4	6169	9928	5	3.84	97.5
Saint Paul	N. 44 53	W. 93 05	5.56 a.m.	811	247	29.11	739.4	29.95	760.7	61.0	16.1	83.5	3	3	3	6	4	4	5	1	2	6822	10979	5	2.84	72.1
Saint Vincent	N. 48 58	W. 97 03	5.40 a.m.	804	245	29.05	737.9	29.89	759.2	55.9	13.3	89.7	4	2	9	1	3	6	2	2	2	6703	10787	5	3.79	96.3
Salt Lake City	N. 40 46	W. 111 54	4.40 a.m.	4348	1325	25.69	652.5	29.87	758.7	65.4	18.6	43.6	3	2	.....	.....	2	10	1	3	10	4321	6954	2	0.30	7.6
San Antonio	N. 29 28	W. 98 22	5.34 a.m.	673	205	29.34	745.2	30.02	762.5	75.6	24.2	87.0	2	.....	.....	.....	2	8	4	4	11	3939	6339	5	2.92	74.2
San Diego *a*	N. 32 32	W. 117 08	4.20 a.m.	67	20	29.90	759.4	29.97	761.2	62.9	17.2	85.2	10	6	1	5	5	.....	2	1	.....	4711	7582	1	0	0
Sandusky	N. 41 27	W. 82 43	6.37 a.m.	639	195	29.36	745.7	30.02	762.5	66.9	19.4	75.3	3	2	3	9	10	1	.....	3	.....	8143	13105	4	1.51	38.4
Sandy Hook	N. 40 28	W. 74 01	7.12 a.m.	28	8	29.99	761.7	30.02	762.5	71.8	22.1	79.6	.....	4	11	5	1	3	1	6	.....	7378	11874	4	2.35	59.7
San Francisco	N. 37 48	W. 122 26	3.58 a.m.	60	18	29.92	760.0	29.99	761.7	55.0	12.8	89.3	.....	.....	12	18	.....	.....	.....	.....	1	9550	15309	5	0	0
Santa Fé	N. 35 41	W. 106 10	5.04 a.m.	7106	2166	23.38	593.8	29.88	758.9	59.7	15.4	57.2	.....	.....	1	1	.....	4	8	12	5	6638	10683	5	1.17	29.7
Savannah	N. 32 05	W. 81 08	6.44 a.m.	87	26	30.01	762.2	30.10	764.5	79.4	26.3	79.0	6	1	3	13	5	1	1	1	.....	4573	7359	5	3.53	89.7
Shaw, Fort	N. 47 29	W. 111 46	4.41 a.m.	3550	1082	26.42	671.1	29.93	760.2	52.3	11.3	68.7	.....	1	20	8	1	.....	1	.....	.....	6019	9706	3	1.47	37.3
Shreveport	N. 32 30	W. 93 45	5.54 a.m.	227	69	29.84	757.9	30.07	763.8	73.3	22.9	88.9	.....	2	3	4	5	5	4	6	2	3671	5908	6	11.38	289.0
Sill, Fort	N. 34 40	W. 98 30	5.34 a.m.	1200	366	28.81	731.8	30.01	762.2	71.3	21.8	80.1	8	.....	.....	.....	7	5	2	3	6	7816	12578	6	4.66	118.4
Silver City	N. 32 48	W. 108 15	4.55 a.m.	5890	1795	24.38	619.2	29.84	757.9	61.1	16.2	55.2	5	9	8	.....	6	.....	1	1	1	2458	3956	4	1.84	46.7
Sitka	N. 57 03	W. 135 19	3.07 a.m.	63	19	29.95	760.7	30.01	762.2	50.4	10.2	84.4	1	3	2	2	2	6	3	4	8	5317	8557	8	6.68	170.7
Smith, Fort	N. 35 22	W. 94 24	5.51 a.m.	449	137	29.58	751.3	30.04	763.0	71.2	21.8	85.4	2	.....	.....	.....	1	1	18	2	7	3234	5204	5	1.77	45.0
Smithville	N. 33 55	W. 78 01	6.56 a.m.	34	10	30.05	763.3	30.08	764.0	76.8	24.9	81.3	8	2	9	7	.....	.....	1	4	.....	7439	11973	5	4.04	102.6
Spokane Falls	N. 47 39	W. 117 24	4.18 a.m.	1910?	582?	28.01	711.4	29.99	761.7	56.4	13.6	70.4	.....	2	4	10	3	1	2	.....	9	4929	7932	4	0.88	22.4
Springfield, Ill.	N. 39 48	W. 89 48	6.10 a.m.	644	196	29.39	746.5	30.05	763.3	67.0	19.4	76.4	8	1	6	1	6	2	1	2	4	4218	6588	4	1.89	48.0
Springfield, Mass.	N. 42 06	W. 72 36	7.18 a.m.	120	37	29.89	759.2	30.02	762.5	69.9	21.1	77.7	4	.....	1	3	19	.....	1	2	1	3143	5058	6	1.92	48.8
Springfield, Mo.	N. 37 12	W. 93 18	5.55 a.m.	1351	412	28.65	727.7	30.04	763.0	67.5	19.7	85.2	3	.....	4	1	9	6	4	2	2	5184	8343	6	4.98	126.5
Starkville	N. 33 35	W. 88 49	6.13 a.m.	455	123	29.62	752.3	30.08	764.0	75.6	24.2	81.2	4	1	2	8	7	4	2	2	1	5071	8161	6	6.08	154.4
Stevenson, Fort	N. 47 36	W. 101 23	5.22 a.m.	1750	534	28.13	714.5	29.91	759.7	59.0	15.0	86.2	.....	8	1	5	1	3	4	5	3	6629	10668	4	4.34	110.2
Stockton	N. 30 50	W. 102 50	5.16 a.m.	3010	917	27.03	686.5	29.97	761.2	68.2	20.1	82.7	2	.....	2	2	13	5	1	1	5	6855	11032	4	2.49	63.2
Thatcher's Island	N. 42 36	W. 70 34	7.26 a.m.	48	15	29.94	760.5	29.99	761.7	65.9	18.8	83.5	2	2	12	7	5	2	.....	1	.....	6281	10108	3	2.90	73.7
Toledo	N. 41 40	W. 83 32	6.34 a.m.	651	198	29.34	745.2	30.01	762.2	67.7	19.8	69.8	5	3	13	5	4	.....	.....	1	.....	5337	8589	5	3.04	77.2
Tucson	N. 32 14	W. 110 56	4.44 a.m.	2369	722	27.55	699.8	29.87	758.7	76.2	24.6	68.1	.....	.....	1	.....	5	8	4	1	12	2776	4468	4	2.63	66.8
Umatilla	N. 45 55	W. 119 21	4.11 a.m.	340	103	29.69	754.1	30.05	763.3	61.1	16.2	52.8	2	1	9	8	.....	5	5	1	.....	7663	12332	2	0.04	1.0
Uvalde *h*	N. 29 13	W. 99 40	5.29 a.m.	930	283	29.04	737.6	29.98	761.5	75.2	24.0	85.3	.....	.....	.....	.....	1	13	7	1	1	2377	3825	6	1.37	34.8
Verde, Fort	N. 34 24	W. 111 53	4.38 a.m.	?	?	.....	.....	.....	.....	70.4	21.3	56.2	4	3	6	6	6	6	.....	.....	.....	.....	.....	3	1.25	31.7
Vicksburg	N. 32 23	W. 90 54	6.04 a.m.	244	74	29.84	757.9	30.08	764.0	73.6	23.1	86.8	2	1	.....	5	6	8	5	3	1	2627	4228	6	10.19	258.8
Visalia	N. 36 20	W. 119 16	4.11 a.m.	348	106	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Washakie, Fort	N. 42 59	W. 108 43	4.50 a.m.	5580	1702	24.59	624.6	29.92	760.0	50.4	10.2	69.3	1	5	16	3	1	1	1	2	1	4731	7614	3	0.57	14.5
Washington, D. C.	N. 38 54	W. 77 02	7.00 a.m.	106	32	29.96	761.0	30.06	763.5	71.5	21.9	76.7	2	9	1	6	4	.....	2	1	6	2903	4672	5	4.46	113.3
W. Las Animas	N. 38 04	W. 103 07	5.16 a.m.	3905	1190	26.12	663.4	29.88	758.9	62.6	17.0	74.3	1	2	2	3	1	2	6	1	13	4599	7401	4	1.69	42.9
Williamsport	N. 41 15	W. 77 03	7.00 a.m.	561	171	29.45	748.0	30.03	762.7	65.4	18.6	79.4	1	1	15	1	.....	2	2	.....	9	3095	4981	5	4.01	101.9
Wilmington	N. 34 11	W. 78 10	6.56 a.m.	52	16	30.03	762.7	30.08	764.0	75.4	24.1	85.8	2	1	8	5	.....	1	.....	10	4	4446	7155	6	8.89	225.8
Winnemucca	N. 41 00	W. 117 43	4.17 a.m.	4327	1319	25.68	652.3	29.90	759.4	56.7	13.7	40.4	1	.....	1	10	3	.....	1	14	1	6437	10359	1	0.01	0.3
Yankton	N. 42 45	W. 97 30	5.38 a.m.	1228	374	28.73	729.7	30.00	762.0	62.8	17.1	74.7	.....	5	6	4	1	2	3	1	9	4086	6576	4	1.65	41.9
Yuma	N. 32 44	W. 114 36	4.30 a.m.	141	43	29.67	753.6	29.81	757.2	80.9	27.2	60.7	.....	1	.....	2	3	7	1	1	16	4675	7524	2	0.20	5.1
Sub-Series.																											
Bogota	N. 4 36	W. 74 14	7.11 a.m.	8655	2638	22.07	560.6	.....	.....	52.7	11.5	72	2	.....	4	3	8	3	2	3	6	7470	12022	7	2.13	54.1
Bridgetown	N. 13 12	W. 59 35	8.10 a.m.	?	?	30.07	763.8	30.08	764.0	81.2	27.3	93.6	.....	.....	.....	.....	.....	1	19	11	.....	.....	.....	5	6.86	174.2
Buenaventura	N. 3 50	W. 76 55	7.00 a.m.	18	5	29.98	761.5	30.01	762.2	76.9	24.9	91.3	3	.....	.....	2	9	1	.....	1	15	.....	.....	9	22.80	579.1
Kingston	N. 18 58	W. 76 48	7.01 a.m.	10	3	30.06	763.5	30.07	763.8	81.1	27.3	75	4	2	1	.....	.....	.....	5	.....	19	4562	7342	4	2.03	51.6
Magua	N. 19 17?	W. 71 08?	7.24 a.m.	1000	305?	.....	.....	.....	.....	73.9	23.3	.....	.....	.....	1	.....	.....	.....	3	2	25	.....	.....	3	5.03	127.8
Navassa	N. 19 25	W. 75 03	7.43 a.m.	77	23	29.94	760.5	30.02	762.5	81.2	27.3	74.3	.....	.....	.....	.....	.....	.....	23	8	.....	.....	.....	7	5.14	130.6
Paramaribo	N. 5 50	W. 55 13	8.27 a.m.	6	2	30.08	764.0	30.08	764.0	78.1	25.6	86.6	.....	.....	.....	.....	.....	19	9	3	.....	.....	.....	7	5.53	140.5
Puerto Berrio	N. 6 22	W. 74 28	7.10 a.m.	542	165	29.40	746.7	29.96	761.0	77.8	25.4	87.3	2	.....	.....	1	8	.....	.....	.....	20	.....	.....	7	2.22	56.4
Rivas	N. 11 26	W. 85 47	6.25 a.m.	150	46	.....	.....	.....	.....	76.6	24.8	95.8	.....	.....	.....	.....	.....	1	1	29	.....	.....	.....	6	4.04	102.6
Santiago deCuba	N. 19 55	W. 75 50	7.04 a.m.	21	6	30.04	763.0	30.07	763.8	80.3	26.8	74.8	7	.....	.....	1	.....	.....	.....	.....	23	.....	.....	3	1.69	42.9
York Factory	N. 57 02	W. 92 26	5.58 a.m.	55	17	29.96	761.0	30.02	762.5	58.7	14.8	88.2	7	4	4	2	3	3	2	6	.....	9250	14886	4	3.25	82.5

Ocean Square Data for July, 1882.

Location of Centre of each Square.		No. of days.	No. of ob's.	Barometer.		Temperature.		Wind Frequency.										Wind force 0–10.
				Inch.	Mill.	Fah.	Cent.	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Blank.	
N. 7.5	W. 22.5	10	21															
7.5	27.5	11	17															
12.5	22.5	10	14	30.07	763.8	79.2	26.2				1				25		5	1.3
12.5	27.5	10	13	30.08	764.0	78.7	25.9					1	1	1	20	1	7	1.7
12.5	32.5	9	12															
12.5	52.5	4	5															
12.5	57.5	15	17															
17.5	22.5	5	5	30.12	765.0	78.0	25.6								25		6	1.5
17.5	27.5	9	10	30.12	765.0	78.1	25.6								24		7	1.9
17.5	32.5	4	5															
17.5	37.5	3	3															
17.5	42.5	2	2															
17.5	47.5	1	1															
17.5	52.5	1	1															
17.5	57.5	9	9	30.14	765.5	82.7	28.2						4	16	7		4	1.6
22.5	22.5	6	7	30.17	766.3	77.0	25.0							1	22		8	1.6
22.5	27.5	4	4	30.18	766.6	77.0	25.0	1						4	20		6	1.5
22.5	32.5	2	3	30.22	767.6	78.2	25.7						1	8	17		5	1.6
22.5	37.5	5	7	30.21	767.3	79.4	26.3						2	14	8		7	1.4
22.5	42.5	1	1	30.22	767.6	80.6	27.0					1	2	11	4		13	1.5
22.5	47.5	1	1	30.23	767.8	81.8	27.7	1				1	7	10			12	1.2
22.5	52.5	4	4	30.23	767.8	82.0	27.8						8	11			12	1.8
22.5	57.5	7	9	30.22	767.6	82.2	27.9					2	14	10			5	1.5
22.5	62.5	9	10	30.18	766.6	82.5	28.1					1	9	14	6		1	1.5
22.5	67.5	6	6	30.16	766.1	82.7	28.2						15	14	1		1	1.3
22.5	72.5			30.14	765.5	82.5	28.1					1	9	18	3			1.6
27.5	22.5	3	3	30.22	767.6	78.2	25.7	2							24		5	1.4
27.5	27.5			30.25	768.3	76.0	24.4							3	23		5	1.3
27.5	32.5	4	4	30.26	768.6	77.1	25.1	1					3	6	15		6	1.5
27.5	37.5	5	5	30.24	768.1	78.4	25.8	1					4	8	11		7	1.3
27.5	42.5	5	5	30.27	768.8	79.7	26.5					2	8	4	6		11	1.4
27.5	47.5	1	1	30.29	769.4	80.3	26.8					1	10	6	1		13	1.1
27.5	52.5			30.28	769.1	80.3	26.8			1		2	12	2			14	1.1
27.5	57.5	5	5	30.25	768.3	81.2	27.3				1	8	11	2			9	1.3
27.5	62.5	5	6	30.23	767.8	81.5	27.5	1			1	11	15	1	1		1	1.3
27.5	67.5	9	10	30.20	767.1	81.4	27.4	1			3	12	11	1	1		2	1.3
27.5	72.5	16	20	30.18	766.6	81.5	27.5	1	1		3	10	14	2				1.6
27.5	77.5	13	18	30.15	765.8	81.5	27.5	1	1		3	11	15					1.3
32.5	12.5	3	4	30.13	765.3	73.5	22.9	12	3	2	1				13			1.6
32.5	17.5	2	2	30.19	766.8	73.2	22.9	5	4		3				19			1.0
32.5	22.5			30.26	768.6	73.7	23.2	6	2						19		4	1.5
32.5	27.5	1	1	30.30	769.6	74.2	23.4	3	2					3	16		7	1.5
32.5	32.5			30.30	769.6	75.8	24.3	4	1				4	7	7		8	1.6
32.5	37.5	4	4	30.31	769.9	76.9	24.9	3		1	1	3	6	3	4		10	2.0
32.5	42.5	12	13	30.32	770.1	78.9	26.1	3			1	4	7	3	3		10	1.2
32.5	47.5	4	4	30.31	769.9	79.1	26.2		1	1	5	5	7	1	2		9	1.4
32.5	52.5			30.28	769.1	79.0	26.1			2	3	7	7	2			10	1.3
32.5	57.5	9	9	30.24	768.1	79.7	26.5			2	9	10	4	2			4	1.6
32.5	62.5	4	4	30 22	767.6	79.9	26.6			3	6	16	3	2			1	1.3
32.5	67.5	11	15	30.17	766.3	79.4	26.3		2		11	15	2		1			1.5
32.5	72.5	17	32	30.14	765.5	80.0	26.7		4		8	14	4		1			1.6
32.5	77.5	19	32	30.10	764.5	78.7	25.9	5	2	2	16	2		1	3			1.5
37.5	12.5	10	13	30.11	764.8	71.3	21.8	9	15		3		1		3			2.1
37.5	17.5	5	6	30.18	766.6	70.9	21.6	5	13	5		1			7			1.8
37.5	22.5	5	5	30.26	768.6	71.6	22.0	8	13	2	2			1	5			1.8
37.5	27.5	3	3	30.29	769.4	71.8	22.1	3	14	3	3	1	3	2	2			1.8
37.5	32.5	2	2	30.28	769.1	72.7	22.6	2	5	8	8	1	4	2			1	2.2
37.5	37.5	2	2	30.27	768.8	73.6	23.1	3	5	6	9	5	2				1	2.6
37.5	42.5	4	4	30.24	768.1	73.8	23.2	2	2	8	11	6		1	1			2.4
37.5	47.5	9	12	30.23	767.8	74.2	23.4		1	5	17	5		2	1			2.4
37.5	52.5	14	17	30.21	767.3	74.8	23.8		1	1	17	8	2	2				2.6
37.5	57.5	13	19	30.17	766.3	74.8	23.8	1	1	3	18	6	1		1			2.9
37.5	62.5	14	18	30.14	765.5	74.1	23.4	1	1	3	15	8		2	1			2.7
37.5	67.5	24	33	30.12	765.0	73.3	22.9	1	4	1	15	7	1	1	1			2.5
37.5	72.5	31	120	30.07	763.8	73.5	23.1	5	3		13	6	1	1	2			1.9
42.5	12.5	2	2	30.06	763.5	69.2	20.7	2	11	6	5		1		6			3.3
42.5	17.5			30.11	764.8	68.6	20.3	1	18	5	3				4			2.7
42.5	22.5	3	3	30.17	766.3	67.1	19.5		17	5	4			1	4			2.6
42.5	27.5	11	12	30.20	767.1	68.7	20.4		12	7	8	2	1				1	2.5
42.5	32.5	13	17	30.19	766.8	69.5	20.8	1	7	12	8	3						3.0
42.5	37.5	23	39	30.17	766.3	69.5	20.8	2	6	5	15	3						3.1
42.5	42.5	27	75	30.18	766.6	72.2	22.3	4	6	17	4							3.0
42.5	47.5	31	94	30.16	766.1	69.0	20.6		2	4	21	3			1			2.6
42.5	52.5	30	83	30.12	765.0	69.3	20.7		1	1	23	3		3				2.6
42.5	57.5	28	77	30.09	764.3	69.7	20.9	1	4	3	18	3		1	1			3.0
42.5	62.5	30	93	30.06	763.5	68.2	20.1		5	3	12	8	1		2			1.9
42.5	67.5	30	93	30.02	762.5	67.0	19.4	1	2	3	16	5	2		2			2.1
47.5	12.5	24	42	29.94	760.5	62.4	16.9	3	5	10	8	3			2			3.6
47.5	17.5	28	47	29.92	760.0	61.6	16.4	3	10	8	9	1						4.2
47.5	22.5	30	61	29.95	760.7	61.5	16.4	1	12	8	9	1						3.8
47.5	27.5	28	68	29.96	761.0	61.3	16.3	1	14	5	10	1						3.7
47.5	32.5	28	85	29.96	761.0	60.9	16.1	1	10	7	11	2						3.5
47.5	37.5	25	71	29.98	761.5	60.8	16.0	1	9	6	11	4						3.3
47.5	42.5	21	32	30.00	762.0	59.7	15.4		7	6	15	2	1					2.9
47.5	47.5	12	16	29.98	761.5	59.3	15.2		4	6	17	2		1			1	2.5
52.5	12.5	17	24	29.79	756.7	59.4	15.2	1	10	7	8	5						3.8
52.5	17.5	20	33	30.77	756.1	59.1	15.1	2	11	9	8	1						4.2
52.5	22.5	22	35	29.81	757.2	58.3	14.6	4	11	6	9	1						3.7
52.5	27.5	12	23	29.83	757.7	57.7	14.3	2	16	2	9	1	1					3.5
52.5	32.5	12	12	29.85	758.2	56.7	13.7	1	16	2	8	1	1				2	3.1
52.5	37.5	4	4	29.86	758.4	56.4	13.6	2	14	5	5	2					3	2.6
52.5	47.5			29.88	758.9	56.0	13.3		10	2	9	1	1		1		7	2.0
52.5	52.5	2	2	29.85	758.2	54.5	12.5	2	7		11	1	1		1		8	1.8
57.5	12.5	11	15	29.61	752.1	56.5	13.6	6	3	3	5	3	3		7		1	3.3
57.5	17.5	6	6	29.65	753.1	54.8	12.7	10	4	3	5	2		2	4		1	3.4
57.5	22.5	4	4	29.68	753.9	53.3	11.8	8	5	2	6	1	3		4		2	3.1
57.5	27.5	3	3	29.72	754.9	53.0	11.7	8	7	2	6	1	1		2		4	2.8
57.5	32.5	1	1	29.74	755.4	51.3	10.7	4	10	2	3	1	1		1		9	2.9
57.5	37.5	1	1	29.71	754.6	50.7	10.4	2	12	2	2			1	1		11	2.3

NOTE.—See General Remarks.

REVIEW.

INTERNATIONAL METEOROLOGY.

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

The following descriptions refer to chart iv. for the months of September, October, November, and December, 1881, (which charts were issued with the SUMMARY for the respective months,) and present a brief summary of the meteorological conditions which prevailed over the northern hemisphere during these months. Chart iv. continues the series of international charts begun in January, 1877, and exhibits the mean pressure, mean temperature, and prevailing directions of the wind over the northern hemisphere, and at certain isolated stations in the southern hemisphere, as determined from one observation taken simultaneously each day at 7 a. m., Washington, or 0 h. 8 m. p. m., Greenwich mean time.

For the description of these charts, much valuable information has been obtained from the "Monatliche Uebersicht der Witterung," published by Professor Dr. G. Neumayer, Director of the German Marine Observatory at Hamburg, Germany; and from the "Bulletin Mensuel," published by Mr. Marc Dechevrens, of the Zi-Ka-Wei Observatory, Shanghai, China.

For the month of September, 1881, the area of least pressure is situated over the Panjab, in British India, where the barometric means range from 29.58 (751.3) to 29.6 (751.8). In other parts of British India the mean pressure ranges from 29.62 (752.3) in the central regions, to 29.83 (757.7) in the south. An area of low mean pressures, 29.7 (754.4), is shown in Greenland; from there the pressure gradually increases in a southerly and easterly direction until the isobar of 30.0 (762.0) is reached. The line of 30.0 (762.0) extends from Newfoundland southeastward to the northwestern part of the Iberian peninsula. An area of relatively low pressures, 29.9 (759.4), occupies Manitoba, Minnesota, and part of Dakota, where the pressures range from 29.87 (758.7) to 29.9 (759.4). In the middle and south Pacific coast regions the mean pressure is below 29.9 (759.4).

Three areas of barometric maxima appear on the chart, each being indicated by the isobarometric line of 30.1 (764.5). The first of these occupies the south Atlantic states, and stretches northeastward along the coast of the United States to the Maritime Provinces, and thence over the ocean to W. 58°. The second area is shown off the northwestern coast of Africa, and includes within its limits the Madeira Islands; the third area is situated in northern Europe, and covers the Gulf of Bothnia and Finland.

Compared with the preceding month, (August, 1881,) there has been a general increase of pressure in the United States, except in the country between the Mississippi and Missouri rivers, and in California, where there has been a decrease. In Europe, the pressure is everywhere higher than in the preceding month, the greatest change being in the northern part of the continent, where the increase is about .45 inch. The isobar of 29.6 (751.8), which, in August, occupied the Scandinavian peninsula, is now replaced by the isobar of 30.1 (764.5). There has been general increase of pressure throughout the continent of Asia, but there has been a slight decrease in northern Africa.

Compared with the corresponding month of previous years, the mean atmospheric pressure in the United States is generally below the normal, except along the immediate Atlantic coast, where there is a slight excess over the normal values. In Canada it is above the normal, except in Ontario. In Europe the mean pressure was considerably above the normal in the northern part of the continent, and normal or slightly below in the central and southern parts.

The following table gives the mean pressure and the mean temperature, with corresponding departures, for the month of September, 1881, in the several countries of the eastern hemisphere, compared with the means as determined from observations taken during the years 1877, 1878, 1879, and 1880:

Countries.	Mean pressure.			Mean temperature.		
	Sept., 1877, 1878, 1879, 1880.	Sept., 1881.	Departure.	Sept., 1877, 1878, 1879, 1880.	Sept., 1881.	Departure.
				°	°	°
Algeria	30.03	29.97	—0.06	81.4	85.1	+3.7
Austria	29.97	29.97	normal	66.4	63.8	—2.6
British Isles	29.98	29.98	normal	57.2	59.5	+2.3
Denmark	29.90	29.98	+0.08	59.1	57.2	—1.9
France	30.02	30.00	—0.02	68.6	65.1	—3.5
Germany	30.01	29.95	—0.06	64.0	60.4	—3.6
India	29.70	29.68	—0.02	82.5	83.9	+1.4
Italy	29.98	29.97	—0.01	75.5	70.7	—4.8
Norway	29.79	30.03	+0.24	56.0	57.4	+1.4
Portugal	30.02	30.05	+0.03	74.8	76.2	+1.4
Russia	29.95	30.04	+0.09	62.0	61.0	—1.0
Spain*	30.03	30.02	—0.01	75.6	74.2	—1.4
Sweden	29.86	30.07	+0.21	56.1	54.4	—1.7

* Mean for three years only.

The accompanying table shows the deviations in pressure and temperature at isolated stations during the month of September, 1881, as compared with the means of four years:

Stations.	Mean pressure.			Mean temperature.		
	Sept., 1877, '78, '79, '80.	Sept., 1881.	Departure.	Sept., 1877, '78, '79, '80.	Sept., 1881.	Departure.
				°	°	°
Gibraltar *	30.01	30.06	+ 0.05	75.9	76.7	+ 0.8
Malta, Mediterranean Sea	29.95	29.98	+ 0.03	82.4	80.1	— 2.3
Sandwick Manse, Orkney Islands	29.84	30.05	+ 0.21	54.3	53.2	— 1.1
Bridgetown, Barbadoes	29.94	.....	.....	82.6	.....	.....
Cape Town, Cape Good Hope	30.13	30.12	— 0.01	64.7	68.4	+ 3.7
Fort Napier, Natal, South Africa*	29.95	29.96	+ 0.01	74.2	70.1	— 4.1
Free Town, Sierra Leone	29.89	29.94	+ 0.05	82.1	84.2	+ 2.1
Mauritius, Indian Ocean	30.16	30.18	+ 0.02	73.0	72.3	— 0.7
Melbourne, New South Wales	30.03	30.05	+ 0.02	52.7	51.6	— 1.1
Nassau, Bahamas	29.98	29.99	+ 0.01	83.1	83.2	+ 0.1
Godthaab, Greenland	29.74	29.65	— 0.09	38.2	35.8	— 2.4
Stykkisholm, Iceland	29.62	29.75	+ 0.13	45.0	50.7	+ 5.7
Thorshavn, Färöe Islands	29.72	30.00	+ 0.28	51.3	51.4	+ 0.1
Zi-Ka-Wei, China	29.94	29.95	+ 0.01	70.5	71.8	+ 1.3
Athens, Greece	29.96	29.94	— 0.02	82.1	84.0	+ 1.9
Cagliari, Sardinia, Italy	29.95	29.97	+ 0.02	79.2	77.0	— 2.2
Tokei, Japan	29.94	29.97	+ 0.03	70.6	70.7	+ 0.1
Angra, Azores	30.18	30.05	— 0.13	70.7	68.9	— 1.8
Funchal, Madeira Islands	30.11	30.13	+ 0.02	75.9	75.0	— 0.9
Ponta Delgado, Azores	30.19	30.10	— 0.09	73.7	73.2	— 0.5
Archangel, Russia	29.87	30.08	+ 0.21	51.0	46.0	— 5.0
Tiflis, Russia	29.94	29.94	normal	75.6	77.9	+ 2.3
Astrakhan, Russia	30.02	30.06	+ 0.04	70.0	65.7	— 4.3
Ekaterinburg, Russia	29.94	29.82	— 0.12	53.6	45.7	— 7.9
Tashkend, Toorkistan, Asia	29.98	29.95	— 0.03	69.2	71.1	+ 1.9
Barnaul, Siberia, Asia	29.92	29.82	— 0.10	56.1	52.7	— 3.4
Yeniseisk, Siberia, Asia	29.95	29.87	— 0.08	47.9	44.2	— 3.7
Pekin, China	29.97	29.98	+ 0.01	67.5	68.4	+ 0.9
Nikolaevsk on the Amoor, Asia	.....	.....	.....	49.6	52.2	+ 2.6
San Juan de Puerto Rico, W. I	29.96	29.99	+ 0.03	81.6	80.8	— 0.7
Beirut, Turkey in Asia	29.86	29.86	normal	84.8	85.6	+ 0.8
Mexico, Mexico	.....	.....	.....	.....	.....	.....
Havana, Cuba, W. I	29.97	29.99	+ 0.02	81.4	79.5	— 1.9
Paramaribo, D. Guiana, S. A	30.04	30.02	— 0.02	82.3	80.1	— 2.2
York Factory, B. A	29.94	30.02	+ 0.08	36.4	36.2	— 0.2

* Mean for three years only.

The mean temperature of the air in the United States was above the normal from Lake Michigan southwestward to New Mexico and eastward to the Atlantic. In Florida, it was normal. In the south Pacific coast region the temperature was above the normal, but elsewhere in the United States it was below the normal. In Europe the temperature was much below the normal in the central and southern parts of the continent; in Norway it was about 1° above the normal. In British India the temperature was about 1°.4 above the average for four years; the highest mean temperature reported, was 92°.9 Fahr. (33°.8 Cent.), at Lahore, and the lowest was 72°.2 Fahr. (22°.3 Cent.), at Belgaum.

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

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
	°	°		°	°
Beirut, Turkey in Asia	85.6	29.8	York Factory, B. A	36.2	2.3
Santiago de Cuba, W. I	84.4	29.1	Gjaesvaer, Finmark, Norway	43.5	6.4
Freetown, Africa	84.2	29.0	Yeniseisk, Siberia	44.2	6.8
Athens, Greece	84.0	28.9	Ekaterinburg, Russia	45.7	7.6

In the United States the prevailing directions of the wind were as follows: from the ninety-fifth meridian eastward to the Atlantic, generally southerly and southeasterly. West of the Rocky mountains the winds were westerly and northwesterly. Over the Atlantic from the coast of North America eastward to the twenty-fifth meridian, and between N. 55° and 30° the prevailing winds were northerly and northwesterly; east of the twenty-fifth meridan they were southerly and southwesterly. In western and southern Europe the winds were mostly southwesterly; elsewhere they were northeasterly to southerly. On the coast of China they were easterly and southeasterly, and in Japan they were mostly northerly.

The rainfall during the month of September was largely in excess of the average in the United States, except in the middle and south Atlantic states, New England, and the lake region, where there was a deficiency. In Europe, the rainfall was above the average in the central and southern parts, and was normal or slightly below the average in the northern districts.

For the month of October, 1881, the area of least pressure occupies southern Greenland, where the mean pressure at Godthaab was 29.55 (750.6). The pressure gradually increases to the south and eastward, the isobar of 29.9 (759.4) extending from Newfoundland eastward over the Atlantic to near the Irish coast, where it turns abruptly to the northward. In British India the mean pressure ranges from 29.77 (756.1) in the northern and northeastern provinces, to 29.82 (757.4) in southern Hindostan. In northeastern Siberia it is below 29.8 (756.9). In Europe an area of mean pressure, enclosed bythe isobar of 29.9 (759.4), occupies the Italian peninsula, the Adriatic, the Gulf of Genoa, Sardinia, and Sicily; elsewhere in Europe the barometric means range from 29.95 (760.7) to 30.1 (764.5).

Throughout the United States and Canada the mean pressure is above 30.0 (762.0); in the Hudson's Bay region it is below 30.0 (762.0).

The most marked area of barometric maxima is that indicated by the isobarometric line for 30.1 (764.5); it extends from the northwestern part of the United States southward to Mexico, thence northeastward to Indian territory, and then eastward over the ocean to the northwestern coast of Africa. This extensive area of high pressure includes nearly the whole of the United States, the western part of Canada, the Atlantic ocean between the parallels of thirty and forty north latitude, and the Azores and Madeira islands. Within this region of high barometer are two districts of barometric maxima; both are situated in the United States, the first, in Idaho, Montana, and western Dakota, where the barometric means range from 30.2 (767.1) to 30.26 (768.6): the second is in Tennessee, Virginia, and the Carolinas, where the means range from 30.2 (767.1) to 30.27 (768.8). In Europe the region of barometric maxima is situated in the Baltic provinces of Russia, the Gulf of Finland, and the southern part of the province of that name. In Asia the isobar for 30.1 (764.5) extends from eastern Russia and the Caspian sea eastward over the Chinese Empire to the Yellow sea.

Compared with the preceding month, (September, 1881,) the mean pressure over the United States is everywhere higher, the increase being greatest in the region between the Mississippi and Missouri rivers. In eastern Canada and the Maritime Provinces there has been a decrease of pressure. In Europe the pressure has increased over that part of the continent lying north of the fiftieth parallel, whilst it has decreased in the countries south of that parallel, except Russia, over the whole of which country there has been an increase. Throughout Asia a marked increase has occurred; there has also been an increase in Algeria.

Compared with the corresponding month of previous years, the mean atmospheric pressure ranges from .05 to .12 inch above the normal in that part of the United States lying east of the ninetieth meridian, and in the eastern Gulf states it is about normal. From the above-mentioned meridian westward to the Pacific coast the pressure is below the normal. In Canada it it is above the normal, the departure being least in the Maritime Provinces. In Europe, the mean pressure was above the normal in the northern part of the continent, notably so in the Scandinavian peninsula, where the excess averaged .3 inch; in the southern part of Europe, the pressure was slightly below the normal.

The following table gives the mean pressure and the mean temperature, with corresponding departures, for the month of October, 1881, in the several countries of the eastern hemisphere, compared with the means as determined from observations taken during the years 1877, 1878, 1879, and 1880:

Countries.	Mean pressure.			Mean temperature.		
	Oct., 1877, 1878, 1879, 1880.	Oct., 1881.	Departure.	Oct., 1877, 1878, 1879, 1880.	Oct., 1881.	Departure.
				°	°	°
Algeria	30.08	30.03	—0.05	70.9	75.3	+ 4.4
Austria	30.00	29.93	—0.07	57.9	50.2	— 5.7
British Isles	29.91	29.99	+0.08	52.8	50.5	— 2.3
Denmark	29.85	30.00	+0.15	49.6	45.6	— 4.0
France	30.00	29.97	—0.03	64.5	54.4	—10.1
Germany	29.96	29.99	+0.03	51.9	46.0	—5.9
India	29.84	29.81	—0.03	80.6	82.8	+2.2
Italy	30.01	29.88	—0.13	65.8	61.2	—4.6
Norway	29.72	30.04	+0.32	45.1	44.4	—0.7
Portugal	30.05	29.99	+0.06	67.8	65.0	—2.8
Russia	29.99	30.07	+0.11	50.2	45.9	—4.3
Spain *	29.99	29.96	—0.03	67.9	63.3	—4.6
Sweden	29.74	30.07	+0.33	41.9	41.5	—0.4

* Mean for three years only.

The accompanying table shows the deviations in pressure and temperature at isolated stations during the month of October, 1881, as compared with the means of four years:

Stations.	Mean pressure.			Mean temperature.		
	Oct., 1877, '78, '79, '80.	Oct., 1881.	Departure.	Oct., 1877, '78, '79, '80.	Oct., 1881.	Departure.
				°	°	°
Gibraltar	30.04	30.01	—0.03	69.8	71.9	+ 2.1
Malta, Mediterranean Sea	30.00	29.90	—0.10	73.6	74.3	+ 0.7
Sandwick Manse, Orkney Islands	29.82	30.00	+0.18	48.0	47.7	— 0.3
Bridgetown, Barbadoes	29.93	.....	.....	82.3	.....	.....
Cape Town, Cape Good Hope	30.05	30.04	—0.01	69.4	75.9	+ 6.5
Fort Napier, Natal, South Africa	29.87	29.89	+0.02	71.8	76.9	+ 5.1
Free Town, Sierra Leone	29.92	29.89	—0.03	84.0	85.6	+ 1.6
Mauritius, Indian Ocean	30.11	30.13	+0.02	74.9	75.0	+ 0.1
Melbourne, New South Wales	29.98	30.03	+0.05	54.9	53.3	— 1.6
Nassau, Bahamas	29.99	30.04	+0.05	79.8	79.2	— 0.6
Godthaab, Greenland	29.78	29.55	—0.23	31.7	28.4	— 3.3
Stykkisholm, Iceland	29.77	29.80	+0.03	38.2	41.4	+ 3.2
Thorshavn, Färöe Islands	29.70	29.98	+0.28	44.8	46.8	+ 2.0
Zi-Ka-Wei, China	30.17	30.12	—0.05	59.6	62.6	+ 3.0
Athens, Greece	30.02	29.97	—0.05	72.0	72.9	+ 0.9
Cagliari, Sardinia, Italy	29.98	29 85	—0.13	71.4	68.9	— 2.5
Tokei, Japan	30.06	30.04	—0.02	57.8	57.8	normal.
Angra, Azores	30.04	30.15	+0.11	66.8	65.1	— 1.7
Funchal, Madeira Islands	30.09	30.13	+0.04	73.4	72.5	— 0.9
Ponta Delgado, Azores	30.05	30.17	+0.12	69.8	68.4	— 1.4
Archangel, Russia	29.70	30.03	+0.33	39.1	36.1	— 3.0
Tiflis, Russia	30.09	30.07	—0.02	67.1	64.2	— 2.9
Astrakhan, Russia	30.14	30.11	—0.03	58.3	55.0	— 3.3
Ekaterinburg, Russia	29.99	30.07	+0.08	39.2	39.5	— 2.7
Tashkend, Toorkistan, Asia	30.24	30.13	—0.11	54.7	56.3	+ 1.6
Barnaul, Siberia, Asia	30.18	30.12	—0.06	39.6	38.5	+ 1.1
Yeniseisk, Siberia, Asia	30.10	30.08	—0.02	30.8	30.0	— 0.8
Pekin, China	30.17	30.13	—0.04	52.5	55.2	+ 2.7
Nikolaevsk on the Amoor, Asia	.....	.....	.....	32.8	34.5	+ 1.7
San Juan de Puerto Rico, W. I	29.95	29.95	normal.	81.6	79.0	— 2.6
Beirut, Turkey in Asia	29.94	29.95	+0.01	79.4	79.2	— 0.2
Mexico, Mexico	30.23	30.16	—0.07	53.4	55.4	+ 2.0
Havana, Cuba, W. I	29.96	30.04	+0.08	79.0	77.7	— 1.3
Paramaribo, D. Guiana, S. A	29.99	29.97	—0.02	81.2	80.4	— 0.8
York Factory, B. A	29.96	29.97	+0.01	22.9	18.6	— 4.3

In the United States the mean temperature of the air was generally above the normal over the country east of the ninety-fifth meridian; it was also above the normal in Texas, Kansas, and in eastern Colorado. To the westward of the ninety-fifth meridian, excluding the districts just named, the temperature was from 1° to 6° below the normal. The region of greatest excess was in the Gulf states, where it was 6°.8. In Canada the temperature was above the normal in the western, but below the normal in the eastern provinces of the Dominion.

In Europe the mean temperature was everywhere considerably below the normal, the departures being greatest in the central and southern districts, and least in the Scandinavian peninsula. The month is said to have been, in Europe, one of the coldest Octobers on record.

In Hindostan the temperature was about 2° above the average for four years; the highest mean temperature reported was 89°.4 Fahr. (31°.9 Cent.) at Agra, and the lowest was 77°.4 Fahr. (25°.2 Cent.) at Hazaribagh.

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

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
	°	°		°	°
Freetown, Africa	85.4	29.8	York Factory, B. A.	18.6	— 7.4
Manila, Philippine Islands	81.3	27.4	Godthaab, Greenland	28.4	— 2.0
Saint Thomas, W. I.	80.9	27.2	Yeniseisk, Siberia	30.0	— 1.1
Guadeloupe, W. I.	80.5	26.9	Nikolaievsk on the Amoor, Asia	34.5	+ 1.4

In the United States the prevailing directions of the wind were: northeasterly in the south Atlantic states and in Florida; along the middle Atlantic and New England coasts, southwesterly and westerly. In the lake region the winds were generally southwesterly in the eastern part; southerly in the western, and northwesterly and northerly in the northern parts. Over the country between 90° and 100° west longitude from Texas northward to Dakota, they were mostly southerly; in the northwestern part of the country they were northeasterly and northerly, and on the Pacific coast they were generally southerly. Over the north Atlantic, south of the thirty-fifth parallel, the winds were northeasterly; between N. 35° and 45°, from North America to the Azores, they were generally northwesterly. Off the west coast of the British Isles they were southwesterly. In Europe the prevailing winds were northerly, northeasterly, and easterly, except in southern Italy, where they were southwesterly. On the coast of China they were easterly, and in Japan they were northerly and northeasterly.

The rainfall during the month of October, 1881, was below the average in New England, the south Atlantic states, and in Florida; in all other districts of the United States it was in excess of the average. In Canada the rainfall was below the average in Quebec and the Maritime Provinces; elsewhere it was above the average. In Europe the rainfall differed but slightly from the average.

During November, 1881, the region of least mean pressure is situated to the north of the sixtieth parallel, and between the meridians of 10° and 40° west longitude. It is indicated by the isobar for 29.3 (744.2), and encloses within its limits the island of Iceland, where the mean pressure was 29.21 (741.9). South of N. 60°, the barometric pressure gradually increases, the increase being greater toward the east and southeast than in a southerly direction. Over the British Isles and western Europe the barometric gradients are somewhat steep. In British India the mean pressure ranges from 29.86 (758.4) to 29.96 (761.0).

Four areas of barometric maxima are shown on the chart; two of these occupy the United States, the others being in southern Europe and in Siberia, respectively. Concerning the two areas situated in the United States, the first is indicated by the isobar for 30.3 (769.6), and occupies the territories of Idaho, Montana, Wyoming, and the eastern boundary of Oregon. Over the rest of the country west of the hundredth meridian, excepting California, and from the northern boundary of the United States southward to southern Mexico, the mean pressure ranges from 30.2 (767.1) to 30.29 (769.4). In California, it ranges from 30.05 (763.3) in the southern, to 30.17 (766.3) in the northern sections of the state. The second area of high pressure in the United States occupies that part of the country lying between the thirtieth and fortieth parallels of latitude, and from the ninety-first meridian eastward to the Atlantic; within this region the mean pressure ranges from 30.2 (767.1) to 30.27 (768.8). In Europe the region of barometric maxima occupies the southern part of the Iberian peninsula, the western part of the Mediterranean, and northern Africa; it then stetches northeastward to southeastern France, northern and central Italy, southern Germany, and the whole of Austro-Hungary. Throughout the region just mentioned the mean pressure ranges from 30.2 (767.1) to 30.29 (769.4). In Asia the region of greatest pressure comprises the governments of Yeniseisk and Irkoutsk, Siberia, where the mean pressure is 30.3 (769.6); elsewhere in Asia, except in western Siberia and Hindostan, the mean pressure ranges from 30.05 (763.3) to 30.24 (768.1).

The following table gives the mean pressure and the mean temperature, with corresponding departures for the month of November, 1881, in the several countries of the eastern hemisphere, compared with the means as determined from observations taken during the years 1877, 1878, 1879, and 1880:

Countries.	Mean pressure.			Mean temperature.		
	Nov., 1877, 1878, 1879, 1880.	Nov., 1881.	Departure.	Nov., 1877, 1878, 1879, 1880.	Nov., 1881.	Departure.
				°	°	°
Algeria	30.07	30.26	+0.19	63.6	63.0	— 0.6
Austria	30.00	30.24	+0.24	43.8	43.2	— 0.6
British Isles	29.89	29.84	—0.05	44.7	51.3	+ 6.6
Denmark	29.77	29.92	+0.15	41.3	43.5	+ 2.2
France	29.96	30.16	+0.20	46.6	54.4	+ 7.8
Germany	29.90	30.14	+0.24	41.4	46.1	+ 4.7
India	29.94	29.93	—0.01	74.5	75.1	+ 0.6
Italy	30.00	30.22	+0.22	56.0	54.9	— 1.1
Norway	29.74	29.70	—0.04	41.7	41.0	— 0.7
Portugal	30.06	30.23	+0.17	57.7	60.4	+ 2.7
Russia	29.98	30.00	+0.02	38.3	35.2	— 3.1
Spain*	30.02	30.20	+0.18	57.5	60.1	+ 2.6
Sweden	29.71	29.75	+0.04	32.1	35.4	+ 3.3

* Mean for three years only.

The accompanying table shows the deviations in pressure and temperature at isolated stations during the month of November, 1881, as compared with the means of four years.

Stations.	Mean pressure.			Mean temperature.		
	Nov., 1877, '78, '79, '80.	Nov., 1881.	Departure.	Nov., 1877, '78, '79, '80.	Nov., 1881.	Departure.
				°	°	°
Gibraltar	30.04	30.25	+0.21	*64.1	68.2	+ 4.1
Malta, Mediterranean Sea	29.99	30.21	+0.22	68.7	65.7	— 3.0
Sandwick Manse, Orkney Islands	29.75	29.50	—0.25	42.4	46.7	+ 4.3
Bridgetown, Barbadoes	.....	.....	.....	.....	.....	.....
Cape Town, Cape Good Hope	30.02	29.98	—0.04	73.1	73.7	+ 0.6
Fort Napier, Natal, South Africa	29.80	29.78	—0.02	75.8	73.0	— 2.8
Free Town, Sierra Leone	29.92	29.86	—0.06	85.3	84.5	— 0.8
Mauritius, Indian Ocean	30.04	30.01	—0.03	77.6	77.3	— 0.3
Melbourne, New South Wales	29.92	29.87	—0.05	56.4	56.7	+ 0.3
Nassau, Bahamas	30.06	30.06	normal	75.9	77.4	+ 1.5
Godthaab, Greenland	29.68	29.35	—0.33	27.3	23.5	— 3.8
Stykkisholm, Iceland	29.71	29.21	—0.50	31.8	35.4	+ 3.6
Thorshavn, Färöe Islands	29.70	29.34	—0.36	39.8	44.8	+ 5.0
Zi-Ka-Wei, China	30.30	30.22	—0.08	53.6	51.8	— 1.8
Athens, Greece	30.06	30.16	+0.10	63.1	61.5	— 1.6
Cagliari, Sardinia, Italy	29.97	30.19	+0.22	63.7	66.9	+ 3.2
Tokei, Japan	30.08	30.03	—0.05	47.4	49.5	+ 2.1
Angra, Azores	30.10	30.08	—0.02	63.0	59.7	— 3.3
Funchal, Madeira Islands	30.08	30.21	+0.13	69.8	69.3	— 0.5
Ponta Delgado, Azores	30.13	30.11	—0.02	65.3	62.2	— 3.1
Archangel, Russia	29.70	29.60	—0.10	24.7	24.4	— 0.3
Tiflis, Russia	30.26	30.22	—0.04	55.7	50.9	— 4.8
Astrakhan, Russia	30.24	30.20	—0.04	42.9	36.9	— 6.0
Ekaterinburg, Russia	30.07	29.82	—0.25	25.8	16.2	— 9.6
Tashkend, Toorkistan, Asia	30.37	30.34	—0.09	13.8	43.9	+ 1.1
Barnaul, Siberia, Asia	30.29	30.28	—0.09	42.8	15.3	— 6.7
Yeniseisk, Siberia, Asia	30.24	30.20	+0.10	22.0	5.8	— 7.9
Pekin, China	30.30	30.24	—0.06	36.6	39.6	+ 3.0
Nikolaievsk on the Amoor, Asia	.....	.....	.....	12.3	16.5	+ 4.2
San Juan de Puerto Rico, W. I.	29.97	29.99	+0.02	78.9	78.6	— 0.3
Beirut, Turkey in Asia	30.04	29.98	—0.04	72.8	70.5	— 2.3
Mexico, Mexico	30.33	30.21	—0.12	49.2	51.1	+ 1.9
Havana, Cuba, W. I.	30.01	30.05	+0.04	73.8	75.7	+ 1.9
Paramaribo, D. Guiana, S. A.	29.96	29.95	—0.01	82.4	80.2	— 2.2
York Factory, B. A.	30.00	29.98	—0.02	2.5	— 5.9	— 8.4

* Mean for three years only.

Compared with the preceding month (October, 1881), the barometric pressure over the United States has slightly decreased in the lake region and New England; elsewhere there has been a decided increase of pressure. In Canada the pressure has decreased in the western part of the Dominion. In

Europe there has been a decrease of pressure, ranging from .1 to .3 inch over the British Isles, the Scandinavian and Danish peninsulas, and northern Russia; elsewhere there has been a considerable increase of pressure, the increase being most marked in the southern districts. In Asia there has been a general increase of pressure.

Compared with the corresponding month of previous years, the mean atmospheric pressure is above the normal in the United States, except in Florida, the upper lake region, and in Minnesota, Iowa, Illinois, and parts of Dakota and Nebraska, where it is slightly below the normal. In western Canada it is about normal, and in the Maritime Provinces it is from .05 to .1 inch above the normal. In Europe the pressure is generally above the normal.

In the United States the mean temperature of the air was above the normal over the country lying east of the ninety-seventh meridian, except in the west Gulf states, where it was normal, and in Minnesota, where there was a deficiency of about 1°. From W. 97° westward to the Pacific coast the temperature was below the normal, except in the northern Rocky mountain slope, where it was slightly above. In Canada the temperature was normal in the eastern, and slightly above in the western parts of the dominion. In Europe the temperature of the air was considerably above the normal, the greatest departures occurring in the British Isles, and in France and Germany. In the countries just named, the month was one of the warmest Novembers on record; in the British Isles the mean temperature of November exceeded that of October by 1°, and in France and Germany the mean was about the same for both months. In British India the temperature was slightly above the mean for the last four years. The highest mean temperature, 82°.0 Fahr., (28°.3 Cent.) was reported at Kurrachee, and the lowest, 68°.7 Fahr., (20°.4 Cent.) at Lahore.

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

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
	°	°		°	°
Freetown, Africa	84.5	29.2	York Factory, B. A.	− 5.9	−21.1
Zanzibar, Eastern Africa	83.6	28.7	Yeniseisk, Siberia	+ 5.9	−14.5
Bridgetown, Barbadoes	80.9	27.2	Akmolinski, Siberia	13.5	−10.3
Paramaribo, S. A.	80.2	26.8	Barnaul, Siberia	15.3	− 9.3

In the United States the prevailing directions of wind were: southerly over the country between the eighty-second and ninety-first meridians, and the thirty-second and forty-second parallels; northwesterly in New England and the middle Atlantic states; northeasterly and northerly along the Atlantic coast south of N. 43°; southerly and westerly in the lake region, and generally westerly or northwesterly over the country west of the ninety-fifth meridian. In Canada the prevailing winds were westerly and southwesterly. In Europe the winds were mostly southerly and southwesterly, except in Italy, where they were mostly northerly. Over the Atlantic ocean, between N. 35° and 60°, and from the coast of the United States eastward to the twenty-fifth meridian, the prevailing wind was northwesterly. East of the twenty-fifth meridian strong west, southwest, and south winds prevailed. South of N. 35° the winds were northeasterly.

In the United States the rainfall was in excess of the average, except along the immediate Atlantic and Pacific coasts. In western Canada it was above the average, but in the Maritime Provinces it was below the average. In the southern districts of central Europe there was a deficiency, but in other parts of the continent the rainfall differed but slightly from the average.

For December, 1881, the region of barometric minima is indicated by the isobarometric line of 29.2 (741.7), and is situated in Iceland and in eastern Greenland. At Stykkisholm, Iceland, the mean atmospheric pressure was 29.12 (739.6). Southwestward, southward, and southeastward, the pressure increases very rapidly until the isobar for 30.1 (764.5) is reached. That isobar runs from the Canadian Maritime Provinces, eastward along the forty-fifth parallel to northwestern Europe. An area of relatively low pressure also occupies Amoor and the sea of Okhotsk.

The regions of barometric maxima are situated in the United States; over the Azores, the Iberian peninsula, and northern Africa; and in Siberia and China. The first of these is indicated by the isobarometric line of 30.3 (769.6) and occupies the United States west of the hundredth meridian, and from Montana to Mexico, extending southward through the central part of Mexico, to about the eighteenth parallel of latitude. East of the hundredth meridian the mean pressure ranges from 30.1 (764.5), in the lower lake region, to 30.28 (769.1) in the southern states. The second area of high pressure is indicated by the isobar for 30.2 (767.1), which extends over the Atlantic ocean from about W. 35° eastward to the Iberian peninsula and northwestern Africa; at the Azores the mean pressure was 30.3 (769.6). In Europe the mean pressure ranges from 30.0 (762.0) to 30.2 (767.1) except in the British Isles and the Scandinavian peninsula, where it is from 29.6 (751.8) to 29.9 (759.4). In Asia the regions of greatest pressure are in central Siberia, where the mean pressure at Yeniseisk is 30.61 (777.5), and in China, where the pressure at Hankow is also 30.61 (777.5.)

Compared with the preceding month, (November, 1881,) there has been no change in the positions of the areas of barometric maxima and minima, but some changes of pressure have occurred. There has been a decrease of about .09 inch in Iceland, and there has also been a slight decrease in the Canadian Maritime Provinces and along the Atlantic coast of the United States. In Algeria and in central and southern Europe there has been a decrease, but in the British Isles, Denmark, Scandinavia, and the whole of European Russia, there has been a marked increase of pressure. In the United States the pressure has increased generally over the country west of the ninety-fifth meridian. A noteworthy increase of pressure has occurred in Asia; the area of barometric maxima, which in November occupied central Siberia, has apparently extended southeastward to southeastern China, and an increase of pressure, averaging .2 inch, is shown throughout the continent, except in Hindostan, where the increase is less marked.

Compared with the corresponding month of previous years the mean atmospheric pressure over the United States is generally above the normal, except in the country between W. 87° and W. 100°; in that region the pressure is from .05 to .14 inch below the normal. In Canada the mean pressure was above the normal, except in northern Ontario, where there was a slight deficiency. In Europe the mean pressure was everywhere above the normal, the greatest departures of excess occurring in northern Europe and throughout Russia.

The following table gives the mean pressure and mean temperature with corresponding departures for the month of December, 1881, in the several countries of the eastern hemisphere, compared with the means as determined from observations taken during the years, 1877, 1878, 1879, and 1880:

Countries.	Mean pressure.			Mean temperature.		
	Dec., 1877, 1878, 1879, 1880.	Dec., 1881.	Departure.	Dec., 1877, 1878, 1879, 1880.	Dec., 1881.	Departure.
				°	°	°
Algeria	30.14	30.16	+0.02	57.6	56.3	− 1.3
Austria	30.00	30.19	+0.13	32.1	35.8	+ 3.7
British Isles	29.95	29.92	−0.03	38.6	42.5	+ 3.9
Denmark	29.84	29.98	+0.14	34.4	37.9	+ 3.5
France	30.11	30.13	+0.02	41.6	41.7	+ 0.1
Germany	29.99	30.11	+0.12	33.1	36.1	+ 3.0
India	30.00	30.00	normal.	68.2	70.9	+ 2.7
Italy	30.04	30.10	+0.06	47.9	48.7	+ 0.8
Norway	29.72	29.79	+0.07	30.3	36.5	+ 6.2
Portugal	30.21	30.24	+0.03	59.0	30.5	− 8.5
Russia	29.99	30.22	+0.23	27.6	25.3	− 2.3
Spain *	30.13	30.19	+0.06	51.2	50.7	− 0.5
Sweden	29.75	29.96	+0.21	24.8	30.4	+ 5.6

* Mean for three years only.

The accompanying table shows the deviations in pressure

and temperature at isolated stations during December, 1881, as compared with the means for four years:

Stations.	Mean pressure.			Mean temperature.		
	Dec., 1877, '78, '79, '80.	Dec., 1881.	Departure.	Dec., 1877, '78, '79, '80.	Dec., 1881.	Departure.
				°	°	°
Gibraltar *	30.15	30.22	+0.07	59.2	59.8	+ 0.6
Malta, Mediterranean Sea	30.02	30 01	—0.01	61.8	62.2	+ 0.4
Sandwick Manse, Orkney Islands	29.74	29.64	—0.10	38.4	41.1	+ 2.7
Bridgetown, Barbadoes						
Cape Town, Cape Good Hope *	30.01	29.98	—0.03	87.0	79.2	+ 2.2
Fort Napier, Natal, South Africa	29.78	29.78	normal.	76.3	77.2	+ 0.9
Free Town, Sierra Leone	29.90	29.87	—0.03	85.8	87.1	+ 1.3
Mauritius, Indian Ocean	29.96	29.96	normal.	79.8	80.0	+ 0.2
Melbourne, New South Wales	29.92	29.89	—0.03	59.1	60.5	+ 1.4
Nassau, Bahamas	30.11	30.18	+0.07	71.6	72.2	+ 0.6
Godthaab, Greenland	29.65	29.27	—0.28	20.8	14.9	— 5.9
Stykkisholm, Iceland	29.66	29.12	—0.54	25.7	31.5	+ 5.8
Thorshavn, Faröe Islands	29.76	29.48	—0.28	39.2	40.5	+ 1.3
Zi-Ka-Wei, China	30.34	30.41	+0.07	38.6	41.9	+ 3.3
Athens, Greece	30.04	30.11	+0.07	55.1	53.8	— 1.3
Cagliari, Sardinia, Italy	29.99	30.02	+0.03	55.1	57.6	+ 2.5
Tokei, Japan	29.99	30.11	+0.12	40.0	38.4	— 1.6
Angra, Azores	30.04	30.31	+0.27	60.4	59.4	— 1.0
Funchal, Madeira, Islands	30.14	30.29	+0.15	66.4	65.8	— 0.6
Ponta Delgado, Azores	30.08	30.37	+0.29	63.2	61.5	— 1.7
Archangel, Russia	29.79	29.95	+0.16	16.0	20.3	+ 4.3
Tiflis, Russia	30.20	30.31	+0.11	42.3	38.3	— 4.0
Astrakhan, Russia	30.21	30.36	+0.15	29.8	21 6	+ 8.2
Ekaterinburg, Russia	30.22	30.22	normal.	10.1	7.3	— 2.8
Tashkend, Toorkistan, Asia	30.40	30.45	+0.05	34.4	25.1	—10.3
Barnaul, Siberia, Asia	30.42	30.48	+0.06	1.1	— 0.6	— 1.7
Yeneiseisk, Siberia, Asia	30.46	30.61	+0.15	— 7.7	— 8.7	— 1.0
Pekin, China	30.38	30.46	+0.08	24.6	26.8	+ 2.2
Nikolaievsk on the Amoor, Asia				— 5.4	—10.7	— 5.3
San Juan de Puerto Rico, W. I.	30.02	30.06	+0.04	76.1	73.9	— 2.2
Beirut, Turkey in Asia	30.02	30.04	+0.02	64.9	63.5	— 1.4
Mexico, Mexico	30.33	30.32	—0.01	46.1	44.2	— 1.9
Havana, Cuba, W. I.	30.09	30.12	+0.03	71.4	72.1	+ 0.7
Paromaribo, D. Guiana, S. A	29.98	30.01	+0.03	80.2	78.2	— 2.0
York Factory, B. A	29.00	30.10	+0.11	—15.3	—14.4	+ 0.9

* Mean for three years only.

In the United States the mean temperature of the air ranged from 9° to 13° above the normal in all parts of the country, except in California, where it was about 1° below the normal. In Canada it was also much above the normal. In Europe the mean temperature of the air was about normal in the southern part and above the normal in the northern part of the continent. In northern Russia (where the pressure was much above the normal) the temperature was above, whilst in southern Russia, it was below the normal. In Siberia the temperature was below, and in China and Japan it was slightly above the normal. In British India the highest mean temperature reported was 83°.2 Fahr. (28°.4 Cent.) at Poona, and the lowest was 63°.1 Fahr. (17°.3 Cent.) at Sibsagar.

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

Highest.	Fahr.	Cent.	Lowest.	Fahr.	Cent.
	°	°		°	°
Freetown, Africa	87.1	30.6	York Factory, British America	—14.4	—25.8
Zanzibar, east Africa	83.1	28.4	Nikolaievsk on the Amoor, Asia	—10.7	—23.7
Mauritius, Indian Ocean	80.0	26.7	Yeniseisk, Siberia	— 8.7	—22.6
Cape Town, Cape Good Hope	79.2	26.2	Fort Saint Michael, Alaska	— 6.0	—21.1

In the United States the prevailing winds were from south to west over the country north of the fortieth parallel, and from the Pacific eastward to the Atlantic. In Texas and the Gulf states winds were mostly northerly; in Florida and the south Atlantic states they were northeasterly. In California they were variable. In Canada they were westerly and southwesterly. In central Europe the prevailing winds were mostly southerly and southeasterly; in the British Isles they were westerly and southwesterly. In the southern peninsulas they were mostly northerly. In Algeria the winds were northwesterly. In China and Japan they were northerly and northwesterly. Over the north Atlantic ocean the winds were southwesterly and northwesterly from the coast of the United States eastward to W. 50°. Between W. 50° and 30°, and N. 35° and 60°, they were northwesterly. From W. 30° eastward to the European coasts they were mostly westerly and southwesterly. South of N. 35° they were northeasterly.

The rainfall for the month was below the average in the United States, from the Mississippi river westward to the Pacific; there was also a slight deficiency in Florida and the south Atlantic states; elsewhere the rainfall was above the average. In Canada it was above the average. In Europe the rainfall was, in general, below the average.

GENERAL REMARKS.

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

INTERNATIONAL CHARTS ACCOMPANYING THE DAILY BULLETIN AND MONTHLY SUMMARY.

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

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

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

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

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

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

ALGERIAN SERIES (furnished by co-operation of General Maritz, Command-

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

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

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

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

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

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

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

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

FRENCH SERIES (furnished by co-operation of the Central Meteorological Office of France, Professor E. Mascart, Director, and respective observers).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 6, except in metres per second for Mont Louis and Perpignan. In general the rainfall is measured at 9 a. m., local time. The direction of upper and lower clouds is given, but no distinction is made as to kind. The degree of cloudiness is given on a scale of 0 to 4 at Clermont-Ferrand and Puy de Dome, while at other stations the scale of 0 to 10 is employed, or general weather terms, from which the amount of cloudiness is inferred. The weather is given in general terms, except occasionally by the Vienna symbols at Mont Louis and Perpignan. At Guéret the observations are taken at 12 m., instead of 12.16 p. m., and at Besançon at midday instead of 0.32 p. m.

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

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

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

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

JAPANESE SERIES (furnished by co-operation of I. Arai, Director of the Imperial Meteorological Observatory at Tokei).—The rainfall is measured at 9.30 a. m., local time, and the conversions are all published as given in the originals. Distinction is generally made between upper and lower clouds, and the amount is given on a scale of 0 to 10. The weather is given in general terms. During the months of July, August, and September, 1882, the rainfall at Nagasaki was measured at 9.36 p. m., and at Niigati during July and August, at 10.13 p. m., local time.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ERRATA.

DAILY BULLETIN, July 2d, page 7, Occidental and Oriental Steamship Company, s. s. "Coptic," barometric reading doubtful.

5th, page 6, United States Naval, "Constellation," latitude S., should read N.

7th, page 1, Austro-Hungarian, Kremsmunster, upper clouds 3, should read C.

17th, page 3, Swedish, Umea, actual barometer 29.89 inches, should read 29.95 inches.

19th, page 5, United States, New London, reduced barometer 29.05 inches, should read 29.95 inches; page 7, British Meteorological Office, s. s. "Markland," longitude W. 102°, should read W. 103°.

22d, page 7, General Trans-Atlantic Company, s. s. "France," longitude E., should be W.

23d, page 3, Russian, Vladivostock, reduced barometer 29.62 inches, or 752.4 m.m., should read 29.66 inches, or 753.4 mm.

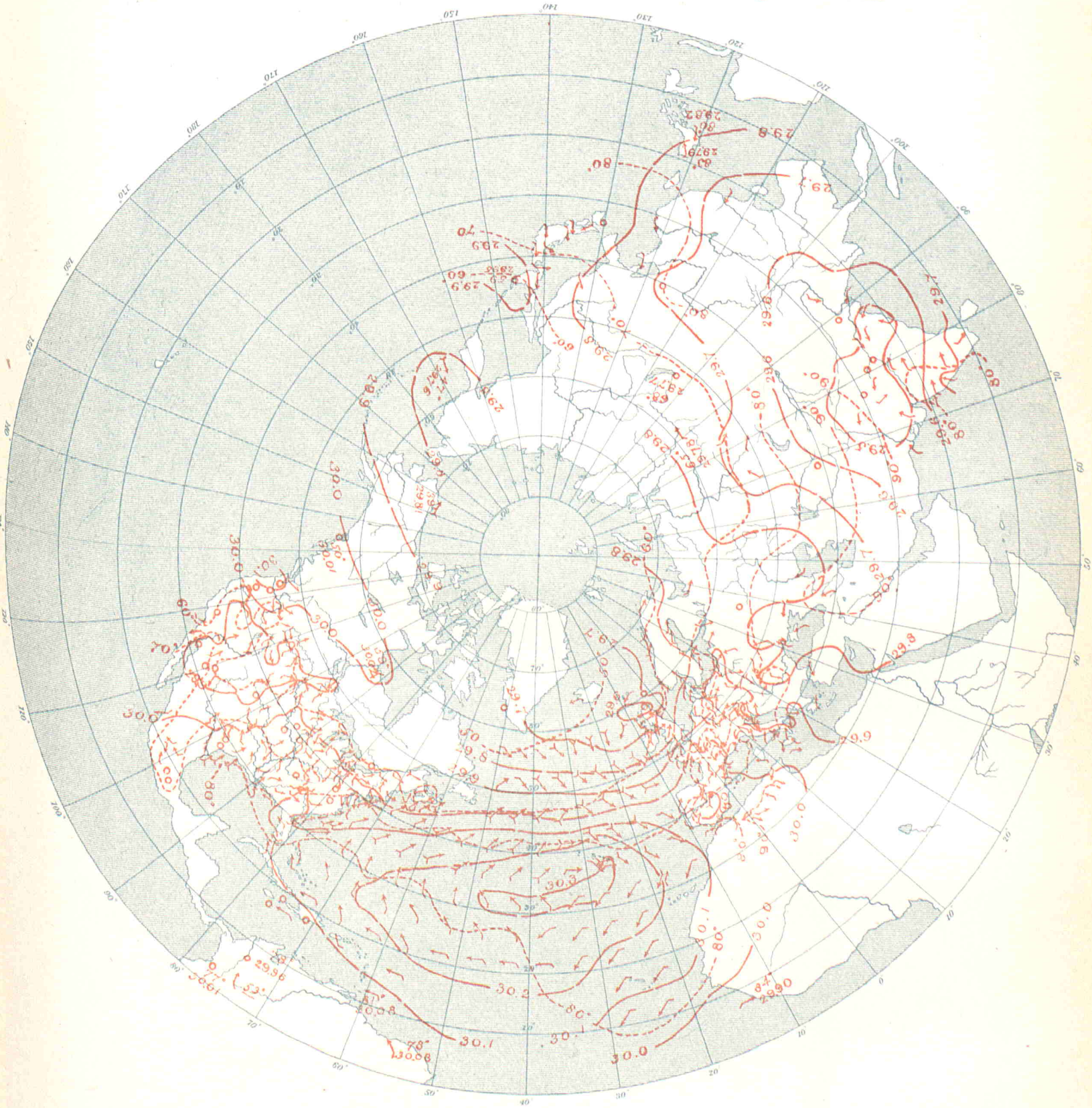
30th, page 7, Boston and Halifax, s. s. "Carroll," Seal island, Alaska, should read, Seal island, Nova Scotia.

United States, Bennett, Fort, all barometric readings for month of July, 1882, except monthly mean, are .06 inches, or 1.5 m.m. too low.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

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

International Chart II. July, 1882. Isobars, Isotherms, and Winds.



UNITED STATES OF AMERICA.

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

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

BULLETIN

OF

INTERNATIONAL METEOROLOGY

FOR THE MONTH OF AUGUST, 1882.

PRINTED FOR EXCHANGE WITH CO-OPERATING OBSERVERS.

WASHINGTON, D. C.:
SEPTEMBER, 1883.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 1, 1882,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.19	766.7	79.2	26.2	75	s.			1		2			0	0	fair	Bouvier.
Algiers			30.21	767.4	78.8	26.0	62	ne.			2		0			0	0	clear	Thève.
La Galle			30.13	765.4	78.8	26.0	69	nnw.			5		3			0	0	pretty fair	Fonfrède.
Tunis			30.12	765.0															Jacques.
Saida			30.13	765.4															Perès.
Tebessa			30.12	765.1	81.3	27.4	19	n.			3		0			0	0	clear	Rigaud.
Gerlville					87.8	31.0	15	nnw.			2		0			0	0	clear	Louchamp.
Laghouat			30.14	765.6	95.7	35.4	27	ne.			4		0			0	0	clear	Abraham.
Biskra			30.14	765.5	95.0	35.0	30	calm			0		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.80	756.9	29.90	759.4	48.5	9.2	75	n.	9	4.0			9			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.05	753.1	30.16	766.0	73.4	23.0	60	ne.			1		8			0.079	2.0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.37	746.1	30.09	764.2	66.0	18.9	48	w.	9.8	4.4			7			0.004	0.1		Dr. Wierzbiski.
Eperies	29.23	742.5	30.09	764.2	68.0	20.0	77	calm			0		9 s			0	0		Julius Mikolik.
Gratz	28.97	735.8	30.19	766.9	66.7	19.3	68	s.			1		10			0	0		Andreas Rospini.
Hermannstadt	28.05	727.7	30.02	762.5	74.5	23.6	78	nw.			3		4			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.80	733.1	30.19	766.8	61.0	16.1	75	wsw.			1		10			0.429	10.9	gloomy	The Staff.
Lemberg	29.10	739.2	30.00	763.6	67.8	19.9	57	ne.			2		9			0	0		Dr. T. Staneckl.
Pola	30.02	762.0	30.13	765.3	79.5	26.4	50	ene.			3		4			0	0		I. R. Hydrographic Office.
Szathmar	29.01	752.0	30.00	763.4	72.9	22.7	51	w.			3		5			0	0		Joseph Midlinszky, S. J.
Szegedin	29.85	758.1	30.12	765.0	72.7	22.6	45	sw.			2		5			0	0		Karl Stancel.
Trieste																			Royal Academy.
Vienna	29.48	748.9	30.19	766.8	65.5	18.6	62	w.			1		10			0.020	0.5		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.81	757.2	29.91	759.7	65.8	18.8	73	wnw.	5	2.2			9			0.080	2.0	overcast	W. Boswell
Armagh, Observatory	29.89	759.2	30.12	765.0	66.0	18.9	86	wsw.	12	5.4			10					gloomy	S. Call.
Bidston, Liverpool Obs'y			30.12	765.0	62.2	16.8	98	wsw.	31	13.9			10					raining	John Hartnup.
Bolton, Sharples	29.50	749.3	30.03	762.7	60.4	15.8	97	w.	10	4.5			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.05	753.1	30.05	763.3	64.2	17.9	82	nw.			2		9			0	0	overcast	J. McLandsborough.
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	84.0	28.9	67	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			30.14	765.5	69.6	20.6	81	w.			1.0		10					overcast	John McLaren.
Chatham, School M. E.	30.05	763.3	30.18	766.6	67.7	19.8	52	w.			1		10					gloomy	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.12	765.0	30.35	770.9	67.3	19.6	81	wnw.			4		10					misty	The Staff.
Fort Napier, Natal	27.82	706.6	30.03	762.7	57.1	13.9	90	se.			8		10					raining	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.72	754.9	29.95	760.7	80.6	26.7	82	w.			1		5						Sergt. John Robinson.
Gibraltar, Mediterranean	30.10	766.1	30.21	767.3	80.0	26.7	72	e.			2		2					blue sky	Corpl. F. Norris, A. H.C
Glasgow, Observatory	29.80	756.9	30.01	762.2	60.0	15.6	90	sw.			5		10					overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.00	762.0	30.17	766.3	66.7	19.3	78	wsw.			2		10					overcast	The Staff.
Guernsey	30.05	763.3	30.35	770.9	64	17.8	85	w.			1		10					overcast	A. Collenette, F. M. S.
Kew, Observatory	30.15	765.8	30.19	766.8	67.0	19.4	74	w.	11	4.9			10					threatening	The Staff.
Leicester, Museum	29.90	759.4	30.15	765.8	65.9	18.8	83	w.			3		10					overcast	J. C. Smith.
Malta, Mediterranean	29.95	760.7	30.02	762.5	76.8	24.9	74	nw.			2		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.11	764.8	30.16	766.1	85.5	29.7	90	se.			3		9					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.65	753.1	30.10	766.1	67.8	19.9	77	w.			5		10					overcast	Warren Middleton.
Oxford, Radcliffe Obs'y	29.95	760.7	30.18	766.6	68.2	20.1	81	sw.			4		10					squally	The Staff.
Plymouth	30.24	768.1	30.31	769.9	71.8	22.1	77	nw.			3		10					foggy	John Merrifield.
Sandwick Manse, Orkneys			29.88	758.9	58.8	14.9	87						5					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.79	756.7	29.85	758.2	91.6	33.1	46	ne.			2		2					d. clouds	W. H. Lyne.
Sheffield	29.84	757.9	30.11	764.8	66.5	19.2	66	w.			3		10			inap.	inap.	overcast	W. F. Cooper.
Silloth Rectory	30.00	762.0	30.03	762.7	66.9	19.4	96	ssw.			3		10			0.095	2.4	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.12	765.0	66.2	15.7	94	w.	16	7.2			10					raining	I. New.
Stratfield Turgiss					68.8	20.4	79	sw.			3		4					d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.34	770.6	30.35	770.9	66	18.9	83	nw.			6		9					gloomy	W. Newcombe.
Valencia, Observatory	30.33	770.4	30.35	770.9	64.7	18.2	86	wsw.	20	8.9			7					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.14	765.5	30.18	766.6	64	17.8	78	w.	2	0.9		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.14	765.5	30.20	767.1	59	15.0	81	sw.	4	1.8		2 c	0	sw.		0	0	fair	G. A. Blair.
Father Point, Quebec*	30.17	766.3	30.20	767.1	57	13.9	80	w.	14	6.3		3 c	0	n.		0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.28	743.7	30.10	764.5	57	13.9	93	se.	4	1.8		0	0			0	0	clear	James Stewart.
Halifax, N. S*	30.10	764.5	30.22	767.6	64	17.8	73	nw.	5	2.2		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.92	760.0	30.24	768.1	71	21.7	76	s.	9	4.0			10 k		se.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.07	703.8	30.27	768.8	67	19.4	76	e.	3	1.3		4 c	8k.	n.		0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.48	748.8	30.15	765.8	68	20.0	73	s.	10	4.5			10 n		se.	0	0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.46	748.3	30.13	765.3	64	17.8	100	se.	12	5.4			10 n		se.	0.91	23.1	heavy rain	H. Morgan.
Port Stanley, Ontario	29.44	747.8	30.07	763.8	65	18.3	90	se.	32	14.3			10 n		se.	1.20	30.5	heavy rain	M. Payne.
Quebec, Quebec*	29.92	760.0	30.24	768.1	62	16.7	84	w.			1	0	hz.			0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.78	756.4	30.23	767.8	61	16.1	90	e.	4	1.8		3 ck	0	se.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.38	746.2	30.11	764.8	46	7.8	89	se.	2	0.9			10 s			0.04	1.0	light rain	
St. Andrews, N. B	30.20	767.1	30.25	768.3	63	17.2	85	nw.	1	0.4		2 c	0	n.		0	0	clear	
Sydney, C. B*	30.09	764.3	30.15	765.8	63	17.2	84	w.	0	2.7		4 ck	2 k	n.		0.09	2.3	clearing	T. C. Hill, C. E
Toronto, Ontario*	29.81	757.2	30.18	766.6	69	20.6	73	s.	15	6.7		5 cs	5 ks	s.	se.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.22	767.6	30.29	769.4	57	13.9	96	nw.	2	0.9			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.73	729.7	30.15	765.8	64.0	17.8	92	se.			4-5	10	0	se.		0.022	0.6	cloudy	Wm. Wylie.
St. Johns, Newfoundland	30.007	762.07	30.257	768.37	58	14.4	69	ne.				0	0			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.44	773.2	30.46	773.7	63	17.2	77	se.	11.7	5.2		8 ck	0			0.065	1.6	hazy	C. Hansen.
Cape Town, C. G. H. Obs'y	30.38	771.6	30.41	772.4	64.5	18.1	77	sse.	24	10.7		0	2			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.38	746.2	29.40	746.8	80.6	27.0	94	ene.	12.3	5.5			10 k		ene.	0.024	0.6	covered	M. Marc Decheyrens, S.J.
Danish.																			
Copenhagen	29.76	755.8	29.80	757.0	59.5	15.3	61	nw.	22	10			10						Oversergent Fischer.
Fanöe	29.91	759.8	29.93	760.3	62.8	17.1	72	wnw.			4		6						Overloerer Lauridsen.
Godthaab, Greenland	29.59	754.2	29.74	755.3	40.6	4.8	92	sw.			2		9			0	0	foggy	S. Kleinschmidt.
Ivigtut	29.76	755.9	29.78	756.4	42.3	5.7		calm			0		10					foggy	
Stykkisholm, Iceland	29.52	749.8	29.56	750.9	50.4	10.2	91	sw.			4		8						A. O. Thorlacius.
Thorshavn	29.83	757.6	29.86	758.5	57.0	13.9	84	se.	7	3			10						Overloerer Bergh.
Vestervig	29.77	756.1	29.86	758.4	61.5	16.4	73	wnw.			6		8						Loerer Oesterbol.
French.																			
Agen, Normal School	29.72	754.9	30.35	770.9	78.4	25.8	39	nw.			1		k;s			0	0		M. Labroue, Director.
Alençon, Normal School	29.79	756.6	30.34	770.9	68.2	20.1	80	nw.			1		k		n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.94	760.5	30.20	767.0	62.2	16.8	89	w.			4		10 n			0	0	covered	M. Fénéon, Command't.
Avignon, Normal School	30.10	764.5	30.18	766.5	83.1	28.4	44	n.			3		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.76	756.0	30.31	769.8	69.8	21.0	37	s.			1		10		nw.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	30.02	762.6	30.28	769.2	67.8	19.9	71	w.			2		10		w.	0	0	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.37	749.0	30.22	767.7	60.8	16	77	n.			1		10 kn		nw.	0.04	1.	covered	M. Gobin, Director.
Bordeaux, Observatory	30.08	764.1	30.34	770.5	79.9	26.6	39	ne.			1		2			0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.59	751.5	30.13	765.3	72.5	22.5	41	w.							w.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.18	766.5	30.42	772.6	72.3	22.4	75	nw.			1		8		nw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.24	768.2	30.32	770.2	54.7	12.6	100	w.			1		8		sw.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.92	760.0	30.24	768.0	71.8	22.1	49	sw.			1		8	w.	sw.	0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.72	755.0	30.23	767.8	64.0	17.8	59	w.			4		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.97	735.9	30.28	769.0	77.7	25.4	49	ne.			1	e	5 k			0	0	½ covered	M. Alluard, Director.
Cluny, Normal School	29.44	747.8	30.27	768.8	74.7	23.7	34	nnw.			1		6		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.21	716.4	30.24	768.1	65.8	18.8	73	wnw.			2		kn	wnw.	wnw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.69	703.4	30.12	765.1	78.1	25.6	38	n.			3	0	1 n		n.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	29.07	738.4	30.13	765.4	88.2	31.2	28	w.			2		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.49	749.0	30.24	768.1	70.5	21.4	69	n.			1	0	2 k		ne.	0	0	slightly cl'dy	M. Ablard, Director.
Lamballe, Normal School					70.5	21.4	69	nw.			2		5		nw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.77	756.1	30.33	770.3	68.9	20.5	60	e.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.29	769.4	30.39	772.0	71.6	22.0	67	wsw.			1		2		n.	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.27	743.4	30.30	769.6	75.2	24.0	47	nnw.			1	e	n	n.	n.	0	0		M. André, Director.
Mans, Normal School	30.07	763.7	30.37	771.4	72.9	22.7	55	nw.			1		5		n.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.90	759.4	30.16	766.0	84.7	29.3	35	sw.			1		1		sw.	0	0		M. Stephan, Director.
Montlouis	25.19	639.7	30.03	762.7	69.8	21.0	38	nw.	7.4	3.3			0			0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	30.09	763.5	30.19	766.7	85.3	29.6	37	n.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.49	748.3	30.23	767.9	64.8	18.2	52	wsw.			1		10 kn			0.039	1.0	covered	M. Hasse, Director
Nantes. Observatory	30.26	768.5	30.42	772.6	73.4	23	40	nw.			1–2	4 c; ck	0	nw.		0	0		M. Larocque, Director.
Perpignan, Observatory	30.12	765.1	30.22	767.7	84.9	29.4	29	nw.	15.0	6.7			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.64	549.6			59.0	15.0		se.			1		0			0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.23	742.5	30.26	768.5	80.6	27	31	n.			4		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.52	648.1			54.9	12.2	81	nnw.			1		2 k			0.008	0.2	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.35	770.9	30.38	771.7	80.6	27.0	100	w.			1		2		nnw.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.17	766.3	30.38	771.7	75.9	24.4	65	nnw.			1		0			0	0	clear	M. Monillot, Director.
Rodez, Normal School	28.21	716.4	30.28	769.1	75.2	24.0	47	nw.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.30	769.5	30.34	770.7	63.0	17.2	85	w.			3		10	sw.		0	0	covered	M. Brotier.
Saint Maur, Observatory	30.12	765.1	30.29	769.3	72.1	22.3	55	nw.			1		10		wnw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.95	753.2	30.39	771.8	81.5	27.5	42	n.			1		0			0	0	clear	M. Baillaud, Director.
Tours	30.17	766.4	30.35	770.9	74.5	23.6	34	w.			1	1 c	0	ne.		0	0	clear	M. de Tastes.
Versailles, Observatory	29.80	756.8	30.29	769.3	70.9	21.6	63	w.			3				wnw.	0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	30.01	762.2	30.30	769.6	72.0	22.2	60	w.			2		8			0	0		M. Marié Davy, Director
German.																			
Ansbach	28.79	731.2	30.24	768.1	56.5	13.6	82	w.			2		10	w.		0.039	1.0	raining	Prof. Jaedt.
Bamberg	29.34	745.1	30.19	766.9	57.7	14.3	77	w.			3	0	9 n		w.	0.118	3.0	raining	Prof. Dr. Hoh.
Berlin	29.87	758.6	30.04	763.0	64.0	17.8	58	sw.			5		9			0.035	0.9		Prof. Dr. Arndt.
Breslau	29.61	752.0	30.11	765.5	64.0	17.8	49	w.			2		10			0	0		Royal University Obs'y.
Carlsruhe	29.80	756.8	30.23	767.9	63.3	17.4	79	sw.			5		10	sw.		0.917	23.3	raining	Albert Senz.
Cassel	29.39	746.4	30.10	764.5	59.7	15.4	78	w.			2		10	sw.		0.268	6.8		Dr. H. Möhl.
Frankfort-on-the-Main	29.84	757.8	30.20	767.1	59.9	15.5	98	wsw.			1		10			0.110	2.8		Physical Society.
Friedrichshafen	28.84	732.5	30.25	768.3	67.3	19.6	73	w.			3		10	w.		0.858	21.8	raining	Wilhelm, Chief Tel.
Hamburg	29.93	760.2	30.02	762.6	62.2	16.8	69	wsw.			4		8			0.008	0.2		E. Preller.
Kiel	29.95	760.5	29.95	761.0	63.9	17.7	58	w.			4		5			0.020	0.5		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.72	755.0	30.15	765.7	56.3	13.5	83	wsw.			2		10			0.063	1.6	rainy	H. Leppig, Asst.
Magdeburg	29.90	759.4	30.09	764.2	59.0	15.0	78	wsw.			3		10 ks		w.	0.039	1.0		Dr. Assmann.
Memel	29.87	758.8	29.92	760.0	64.6	18.1	71	sw.			6	0	8 ks						Isserman.
Munich	28.42	721.9	30.30	769.6	65.3	18.5	50	w.			3		10	w.		0.134	3.4	light rain	Dr. C. Lang.
Neufahrwasser	29.92	759.9	29.93	760.3	66.6	19.2	53	sw.			4		10			0.177	4.5		A. Lothes.
Neustadt, Palatinate	29.67	753.6	30.20	767.1	61.5	16.4	71	w.			4		10		w.	0.079	2.0		Dicknether.
Stuttgart	29.29	743.9	30.17	766.4	61.7	16.5	82	sw.			1		10			0.386	9.8		Prof. Dr. Schoder.
Wustrow	29.95	760.6	29.97	761.2	59.5	15.3	76	wnw.			5	0	8 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.52	749.8	29.88	759.0	89.8	32.1		ne.			5.0		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.51	750.2	29.59	751.5	82.0	27.8	83	wsw.	16.0	7.2			9		w.	0	0	gloomy	
Deesa	29.04	737.6	29.50	749.4	85.4	29.7	71	sw.	0.0	2.7			8	sse.		0.12	3.0	d. clouds	
Bombay	29.59	751.5	29.62	752.4	80.5	26.9	81	wnw.	18.0	8.0			10	w.	w.	0.31	7.9	overcast	
Poona, Yarrowda	27.77	705.4	29.62	752.4	75.7	24.3	77	wsw.	24.0	10.7			10		w.	0	0	overcast	
Trichinopoly	29.43	747.5	29.71	754.5	90.2	32.3	36	wnw.	5.0	2.2			10			0	0	overcast	
Bellary	28.17	715.6	29.62	752.3	84.6	29.2	50	wnw.	8.8	3.9			10			0	c	gloomy	
Belgaum	27.16	690.0	29.72	754.8	70.5	21.4	89	wsw.	7.0	3.1			8	e.	sw.	0.11	2.8	showery	
Lahore	28.84	732.6	29.58	751.4	76.9	24.9	98	n.	2.0	0.9			10			5.06	128.5	raining	
Roorkee	28.65	727.7	29.53	750.0	86.4	30.2	76	n.	1.1	0.5			7			0.04	1.0		
Agra	28.96	735.7	29.52	749.7	87.2	30.7	80	e.	2.0	0.9			4		e.	0.06	1.5	d. clouds	
Nagpur	28.47	723.2	29.51	749.5	78.3	25.7	90	calm	2.0	0.9			9		w.	0.21	5.3	gloomy	
Jubbulpore	28.15	714.9	29.47	748.6	86.8	30.4	65	calm	2.7	1.2			7		e.	0.91	23.1	d. clouds	
Lucknow	29.12	739.8	29.49	749.0	93.0	33.9	53	calm	1.5	0.7			4	wnw.		0	0	d. clouds	
Allahabad	29.18	741.0	29.48	748.9	81.7	27.6	85	ene.	4.0	1.8			9			0.10	2.5	d. clouds	
Patna	29.34	745.1	29.52	749.7	89.6	32.0	65	e.	5.2	2.3			5	e.	e.	0	0	d. clouds	
Hazaribagh	27.53	699.2	29.52	749.7	77.6	25.3	86	ese.	13.1	5.8			10		e.	0.65	1.3	thnd'r storm	
Cuttack	29.49	749.7	29.48	748.7	85.0	29.4	82	s.	8.0	3.6			5			0.84	21.3	d. clouds	
Calcutta, Alipore	29.51	749.4	29.53	750.0	82.0	27.8	87	se.	4.0	1.8			4		se.	0.53	13.5	d. clouds	
Dhubri	29.47	748.5	29.58	751.4	84.6	29.2	86	ne.	6.0	2.7			9			0.57	14.5	gloomy	
Chittagong	29.53	750.1	29.62	752.4	82.5	28.1	84	se.	5.4	2.4			5			0	0	blue sky	
Sibsagar	29.22	742.2	29.55	750.5	89.1	31.7	72	sw.	1.5	0.7			5	sw.		0	0	d. clouds	
Jeypore	28.11	713.9	29.52	749.7	87.4	30.8	71	ese.	5.8	2.6			5		ese.	0.14	3.6	d. clouds	
Zanzibar, Africa	30.04	763.0			80.4	26.9	60	sse.	10.1	4.5			8		se.	inap.	inap.	gloomy	
Italian.																			
Udine	29.78	756.5	30.18	766.5	78.1	25.6	44	se.	1.3	0.6			4			0.020	0.5		Prof. Giovanni Cloelig.
Milan	29.65	753.2	30.15	765.7	82.8	28.2	36	sw.	4.3	1.9			7	nnw.		0	0		Prof. Schiaparelli.
Padua	30.05	763.3	30.16	766.0	76.5	24.7	49	ese.	3.8	1.7			2	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.25	743.0	30.12	765.1	79.9	26.6	31	n.	2.5	1.1			5	n.		0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Genoa	29.96	761.0	30.15	765.7	79.7	26.5	52	sw.	3.8	1.7			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.26	717.9	30.09	764.3	78.6	25.9	28	n.			2		0			0	0		Prof. D. O. Bruno.
Pesaro	30.10	764.4	30.14	765.6	75.6	24.2	54	ne.	9.4	4.2			1			0	0		Prof. Luigi Guidi.
Florence	29.87	758.6	30.11	764.8	84.2	29.0	24	ne.			2		1	nw.		0	0		Prof. Costantino Pitter
Leghorn	29.99	761.7	30.07	763.8	78.6	25.9	58	w.	2.5	1.1			0			0	0		Prof. P. Monte.
Rome	29.88	759.0	30.05	763.2	80.7	30.4	23	wnw.	0	0			0			0	0		Prof. P. Tachini.
Lecce	29.75	755.6	29.99	761.7	80.6	27.0	44	nne.	21.0	9.4			0			0	0		Prof. C. de Giorgi
Cosenza	29.15	740.5	30.00	762.1	83.5	28.6	72	wnw.	3.8	1.7			5	w.		0	0		Prof. D. Conti.
Cagliari	29.90	759.4	30.08	764.1	80.2	26.8	50	s.			4		2			0	0		Prof. A. Pacinotti.
Palermo	29.85	758.1	30.09	764.2	75.9	24.4	59	ne.	9.4	4.2			5	nw.		0	0		Prof. G. Ciacciatore
Syracuse	29.97	761.2	30.01	762.3	79.3	26.3	56	ne.	3.8	1.7			0			0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.55	750.5	30.04	763.1	83.5	28.6	44	sw.	1.8	0.8			4	ne.		0	0		Prof. T. Brioschi.
Stelvio	22.42	569.5			49.5	9.7	47	sw.			2		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.47	570.8			56.1	13.4	65	n.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.71	754.6	29.74	755.4	80.7	27.1	61	w.	1.4	0.6		0	8ks;ck		w.	0	0	cloudy	K. Ogawa.
Hakodate	29.70	754.4	29.71	754.6	82.5	28.1	48	sw.	15.0	6.7			10		sw.	0.003	0.1	overcast	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.67	753.6	29.84	757.9	81.1	27.3	67	se.	1.9	0.8		4ck;cs	2 ck	s.	s.	0	0	fair	M. Fojima.
Nagasaki, I. M. Obs'y	29.49	749.1	29.68	753.9	79.2	26.2	86	ese.	3.6	1.6		6 c	2 s			0.200	5.1	cloudy	
Nemuro	29.81	757.2	29.87	758.7	68.0	20.0	93	se.	12.0	5.4		0	9		nne.	0	0	cloudy	
Niigata	29.75	755.6	29.78	759.4	82.1	27.8	79	sse.	2.0	0.9		1 cs;c	1 s;ck			0	0	fair	M. Morita.
Nobiru	29.79	756.7	29.81	757.1	76.1	24.5	85	ssw.	31.0	13.9		0	0			0	0		H. Midzushina.
Osaka	29.81	757.2	29.82	757.4	81.0	27.2	78	sw.	2.5	1.1		3cks;c	4 s		s.	0.017	0.4	fair	
Sapporo					73.8	23.2	85	se.	12.0	5.4			10			0.080	24.9	covered	
Tokei Obs'y, Yeddo	29.87	758.7	29.94	760.5	77.1	25.1	92	s.	16.1	7.1		1 ck	1 ks	ssw.	ssw.	0	0	fair	The Staff.
Wakayama	29.79	756.6	29.84	757.9	79.7	26.5	75	sse.	4.8	2.1		5	4		s.	0.055	1.4	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	30.02	762.5	30.22	767.6	72.2	22.3	58	e.	16.0	7.2		0	2 k		ese.	0.03	0.8	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	602.9	29.96	760.9	59.2	15.1	83	ene.	0	0		6 c	1 k	ne.	ne.	0.505	12.8	fair	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.01	762.2	60.1	15.6	93	nnw.			1	7 c	1 k	ne.		0.851	21.6	cloudy	Prof. M. Leal.
Mazatlan	29.70	754.3	29.95	760.8	76.9	24.4	91	ne.	1.6	0.8		8 cn	0	se.		inap.	inap.	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.16	588.3	30.18	766.5	55.8	13.2	88	calm			0	1 c	2 ks			0.704	17.9		The Staff.
Morelia	24.21	615.0	30.27	768.8	61.7	16.5	56	se.			2	1	2	s.	s.	0.236?	0.6?	½ cloudy	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.01	609.9	30.00	761.9	60.6	15.9	84	calm			0	2 cs	0	ne.		0	0	clear	M. Y. de Leon, M. E
Puebla, Catholic Institute	23.48	596.4	30.30	769.5	51.1	10.6	91	calm			0	0	3			0	0	½ cloudy	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	22.65	575.5	30.29	769.4	58.2?	13.0?	85	n.	4.8	2.1		10 cs	0			0	0	very cloudy	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.16	766.1	30.16	766.1	64.6	18.1		w.			4					0.043	1.1		
Groningen	29.98	761.5	30.04	762.9	61.7	16.5		nw.			1					0.028	0.7		
Helder	30.04	762.9	30.04	762.9	60.8	16.0		wsw.			4					0.142	3.6		
Hellevoetsluis	30.12	765.1	30.12	765.1	62.2	16.8	94	w.			4					0.106	2.7		
Utrecht	30.06	763.5	30.11	764.7	62.1	16.7	94	wsw.			2		10			0.323	8.2	dull	H. van der Brink.
NORWEGIAN.																			
Bergen	29.77	756.1	29.83	757.7	60.4	15.8	59	nnw.	13	6			6			0	0		
Brono	29.80	756.9	29.84	757.9	59.4	15.2	58	n.	4	2			5			0	0		
Christiania	29.58	751.2	29.72	754.8	57.9	14.4	75	nne.	25	11			10			0.724	18.4		
Gjæsvær	29.62	752.4	29.65	753.0	54.0	12.2		sw.			4		10					foggy	
Lodingen	29.71	754.7	29.70	755.9	54.3	12.4	84	w.			4		10			0.020	0.5		
PORTUGUESE.																			
Angra, Azores					73.0	22.8	88	ese.	13.6	6.1			5			0	0		Dr. J. A. Sampaio
Campo Major	29.17	741.0	30.12	765.1	80.4	30.2	39	ese.	8.7	3.9			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.08	764.1	30.17	766.3	72.7	22.6	68	sw.	3.8	1.7			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.82	757.4	30.17	766.2	85.3	29.6	33	s.	5.6	2.5			0			0	0		The Staff.
Ponta Delgada, Azores	30.22	767.7	30.30	769.5	72.0	22.2	72	ene.	11.2	5.0			3			0	0		
Saint Paul de Loando	29.80	758.4	30.06	763.6	68.7	20.4	82	w.			1		0			0	0		
Serra da Estrella	25.62	650.8	30.13	765.2	76.5	24.7	30	ese.	13.6	6.1			0			0	0		
RUSSIAN.																			
Akmollinski	28.74	730.1	29.78	756.3	70.3	21.3	49	wsw.	2	1		0	3 k			0.012	0.3		Major K. Lasarew.
Archangel	30.08	764.1	30.10	764.6	77.2	25.1	55	s.	13	6		0	0			0	0		Capt. Sselwerstow.
Astrakhan	30.07	763.8	29.99	761.7	85.6	29.8	34	ene.	4	2		0	0			0	0		Capt. Wisganow.
Barnaul	29.44	747.8	29.91	759.8	76.3	24.6	43	calm	0	0			0			0	0		Meteorological Obs'y.
Dorpat	29.67	753.6	29.91	759.6	64.4	18.0	95	s.	4	2			10 n			0.165	4.2	raining	Observatory.
Ekaterinburg	29.19	741.5	30.15	765.8	58.3	14.6	69	nne.	4	2		ck	7 n			0.067	1.7		Meteorological Obs'y.
Irkutsk																			
Kasan																			Observatory.
Kertch	29.94	760.4	30.19	766.9	80.1	29.7	38	n.	2	1		4 c	0			0	0		Lagorio & Sastyrez.
Kieff	29.80	756.9	29.82	757.4	88.0	31.1	80	sse.	9	4		0	0			0	0		Observatory.
Lugan	29.29	744.0	29.89	759.2	78.8	26.0	48	wnw.	7	3		0	6 k;ks						Meteorological Obs'y.
Moscow	29.68	753.8	29.87	758.6	97.5	36.4	18	ene.	13	6			5			0	0		Meteorological Obs'y.
Nikolaev	29.53	750.0	29.97	761.1	86.0	30.0	30	sse.	13	6		0	0						Capt. Kurdakow.
Nikolalevsk, on the Amoor	29.82	757.5	29.89	759.3	92.7	33.7	36	nnw.	9	4		0	2 k			0	0		Lieut. Iwanow.
Pekin, China																			Physical Observatory.
St. Petersburg	29.48	748.7	29.62	752.3	77.9	25.5	59	calm	0	0		0	0			0	0		Central Physical Obs'y.
Semipalatinsk	29.80	756.9	29.82	757.3	82.2	27.9	43	sse.	16	7			10 kn			inap.	inap.		Major Lasarew
Tashkend, Laboratory	29.22	742.3	29.84	757.9	82.0	27.8	37	sse.	4	2			0			0	0		Teich, A. M.
Tiflis	28.24	717.3	29.70	754.4	87.1	30.6	43	calm	0	0			0			0	0		Physical Observatory.
Vladivostock	28.52	724.3	29.84	757.8	93.6	34.2	19	s.	7	3		0	0			0	0		
Warsaw	29.54	750.2	29.60	751.9	65.3	18.5	98	se.	9	4		0	5 k						Astronomical Obs'y.
Wilna	29.63	752.7	30.05	763.2	64.0	17.8	50	sw.	16	7			9 ks						Berg, Assistant.
Yeniseisk	29.55	750.6	29.96	760.9	66.9	19.4	71	sw.	4	2			6			0.028	0.7		M. O. Marks.
SCOTTISH.	29.84	757.8	30.11	764.8	70.5	21.4	94	w.	4	2			1			0.012	0.3		
Monach Lt.																			
North Unst			29.88	758.9	59	15.0	94	w.		6			10			0.5	13.	raining	J. Youngclause.
SPANISH.			29.86	758.4				s.		4		2	4	sw.					Robt. Burnet.
Barcelona, Met. Obs'y	30.09	764.3	30.19	766.8	79.7	26.5	68	s.	2.7	1.2		0	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.30	769.6	30.30	771.1	84.6	29.2	51	nw.	2.0	0.9		2	3	n.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.38	695.5	30.22	767.7	77.0	25.0	30	ne.	9.2	4.1		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.06	712.0	30.16	766.0	88.7	31.5	39	sw.	3.6	1.6		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.10	764.4	30.24	768.2	88.9	31.6	52	se.	2.2	1.0		0	0			0	0	clear	Olayo Diaz, Director
Oviedo	29.54	750.3	30.40	772.2	69.4	20.8	85	n.	3.7	1.7		0	0 k			0	0	fair	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.31	744.4	30.17	766.2	82.9	28.3	44	ne.	9.4	4.2		0	0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.98	761.5	30.05	763.2	80.4	26.9	83	se.	5.4	2.4		5 c;cs	4 k;s	e.	e.	0	0	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.70	754.4	29.76	755.9	79.3	26.3	90	sw.	44.0	19.7		1 c	6 kn		sw.	0.120	3.2	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.05	763.3	30.15	765.7	87.8	31.0	27	e.	29.1	13.0			4	w.	se.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.02	762.6	30.11	764.9	79.2	26.2	97					2 s	4 k	sw.	sw.	0	0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.51	749.5	29.64	752.8	79.8	26.6	88	nne.	2.0	0.9		3 cs	7 ks		sw.	0.05	1.3		José L. Yrastorza.
SWEDISH.																			
Haparanda	29.73	755.1	29.77	756.1	69.1	20.6	87	e.			2		10			0.193	4.9		
Umea	29.72	754.9	29.77	756.2	67.3	19.6	80	sw.			6		9			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Hernosand	29.68	753.8	29.73	755.1	65.1	18.4	79	se.			2		10			0	0		
Stockholm	29.47	748.4	29.64	752.9	67.3	19.6	67	s.			6		10			0.024	0.6		
Wisby	29.59	751.5	29.65	753.0	67.3	19.6	69	sw.			4		5			0.024	0.6		
Sub-series.																			
Upsala	29.51	749.5	29.60	751.7	66.7	19.3	88	nw.	1.8	0.8			9	s.	se.	0.209	5.3	raining	S. G. Fineman.
SWISS.																			
Geneva	28.88	733.6	30.26	768.6	71.6	22.0	41	n.			2					0	0	vapory	The Observatory
TURKISH.																			
Constantinople			29.93	760.1	84.2	29.0	53	nne.	20	9.0			3		ne.	0	0		The Observatory.
Valona			30.11	764.9	81.3	27.4		w.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.76	756.0	86.0	30.0	64	wnw.			3	0	4 s		w.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.26	768.6	30.34	770.6	72	22.2	71	s.	6	2.7		10 cs	0			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.41	747.0	30.05	763.3	65	18.3	93	e.	16	7.2			10 n			0.18	4.6	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.12	638.0	29.84	757.9	61	16.1	70	e.	2	0.9		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.12	688.8	29.88	758.9	59	15.0	72	se.	4	1.8		1 c	0	sw.		0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.98	736.1	30.13	765.3	68.5	20.3	100	e.	2	0.9			fg.			0.40	10.2	light fog	H. Hall.
Atlantic City, New Jersey	30.28	769.1	30.29	769.4	71.8	22.1	71	e.	14	6.5			10 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.96	761.0	30.15	765.8	75	23.9	90	calm	0	0		2 c	0			0.27	6.9	clear	John Healy.
Baltimore, Maryland	30.26	768.6	30.31	769.9	72	22.2	76	e.	7	3.1			10s;fg		se.	0	0	cloudy	Robert Seybolh.
Barnegat, New Jersey	30.29	769.4	30.31	769.9	71.0	21.7	71	e.	12	5.4			10 s			0	0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.49	723.6	30.03	762.7	62	16.7	93	e	1	0.4			10 s			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.15	689.6	29.94	760.5	58	14.4	77	calm	0	0		0	1 s			0.01	0.3	clear	S. Wheaton.
Behring Island, Behring Sea	29.76	755.9	29.78	756.4	48.0	8.9		s.	12	5.4		3 ck	6 ks	s.		0.02	0.5	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.28	718.3	30.03	762.7	59	15.0	78	e.	4	1.8		4 ck	3 ks	e.	e.	0	0	fair	J. T. Elker.
Block Island, Rhode Island	30.33	770.4	30.36	771.1	67	19.4	63	s.	4	1.8		0	0			0	0	clear	B. E. Light.
Boise City, Idaho	27.16	689.9	29.92	760.0	60	15.6	59	nw.	1	0.4		0	0			0	0	fair	O. B. Cole.
Boston, Massachusetts	30.18	766.6	30.33	770.4	65.0	18.3	84	sw.	4	1.8		4 c	hz.	nw.		0	0	fair	M. McCarty.
Brownsville, Texas	29.94	760.5	29.98	761.5	79.6	26.4	82	s.	5	2.2		2 c	2 ks			0	0	fair	Clarence Weaver.
Buffalo, New York	29.45	748.0	30.18	766.6	67.4	19.7	74	s.	10	4.5			10 s		s.	0	0	cloudy	A. H. Bell.
Buford, Fort, Dakota	28.04	712.2	29.98	761.5	61	16.1	78	e.	10	4.5		0	0			0	0	clear	G. C. Schaeffer.
Burlington, Vermont	30.01	762.2	30.30	769.6	69.0	20.6	73	s.	10	4.5		3 cs	4 s	nw.	ne.	0	0	fair	W. H. Ray.
Cairo, Illinois	29.68	753.9	30.07	763.8	75.8	24.3	92	sw.	4	1.8			10 s		sw.	0.30	7.6	cloudy	W. H. Clendenon
Campo, California	27.42	696.4	29.92	760.0	54.4	12.4	69	w.	2	0.9		0	0			0	0	clear	A. K. Alderson.
Cape Henry, Virginia	30.19	766.8	30.21	767.3	75	23.9	76	e.	13	5.8			10 s			0	0	cloudy	W. E. Smith.
Cape May, New Jersey	30.25	768.3	30.28	769.1	71.8	22.1	66	e.	14	6.3			10 s		e.	0	0	cloudy	J. R. Williams.
Cape Mendocino	29.40	746.7						se.	6	2.7			fg.			0	0	dense fog	F. W. Mixer.
Cedar Keys, Florida	30.09	764.3	30.11	764.8	81	27.2	79	e.	8	3.6		0	2 ks			0	0	clear	L. A. Welsh.
Champaign, Illinois	29.20	741.7	29.99	761.7	71.3	21.8	86	w.	4	1.8		8 k	fg.	nw.		0.16	4.1	cloudy	J. H. Smith.
Charleston, S. Carolina	30.07	763.8	30.12	765.0	83	28.3	80	s.	5	2.2		7 c	3 ks		s.	0	0	cloudy	D. O'Donoghue.
Charlotte, N. Carolina	29.28	743.7	30.11	764.8	74.0	23.3	85	s.	2	0.9			10 s		sw.	0.65	16.5	cloudy	B. L. Goulding.
Chattanooga, Tennessee	29.32	744.7	30.13	765.3	73.0	22.8	94	sw.	1	0.4			10 s		sw.	0.25	6.3	cloudy	E. McGovern.
Cheyenne, Wyoming	24.18	614.2	29.88	758.9	55.7	13.2	59	nw.	4	1.8		0	0			0	0	clear	J. Mitchell.
Chicago, Illinois	29.28	743.7	29.97	761.2	69.3	20.7	96	e.	4	1.8			fg.			0.10	2.5	dense fog	C. F. Dickens.
Chincoteague, Virginia	30.22	767.6	30.24	768.1	74	23.3	71	e.	12	5.4			10 ks		se.	0	0	cloudy	J. H. Harrold.
Cincinnati, Ohio	29.40	746.7	30.04	763.0	72	22.2	84	s.	4	1.8			10 n		s.	1.18	30.0	light rain	J. B. Newlin.
Cleveland, Ohio	29.36	745.7	30.08	764.0	66.3	19.1	82	se.	15	6.7			10 s		sw.	1.83	46.5	cloudy	L. Dorman.
Coleman City, Texas	28.25	717.5	29.99	761.7	72	22.2	90	calm	0	0		6 ck	0			0	0	fair	D. Cuthbertson.
Columbus, Ohio	29.20	741.7	30.03	762.7	68	20.0	90	se.	6	2.7			10 s		s.	0.23	5.8	cloudy	W. W. McConihe.
Concho, Texas	28.13	714.5	29.99	761.7	75	23.9	76	calm	0	0		0	1 s		nw.	0	0	clear	W. B. Lamar.
Custer, Fort, Montana	26.80	680.7	29.86	758.4	61	16.1	67	s.	8	3.6		2 k	0	calm		0	0	clear	R. R. Martin.
Davenport, Iowa	29.35	745.5	29.98	761.5	70	21.1	84	nw.	1	0.4		5 ck	0	w.		0.01	0.3	fair	J. Williams.
Davis, Fort, Texas	25.24	641.1	29.89	759.2	68	20.0	90	calm	0	0		0	0			0	0	clear	H. Clifford.
Dayton, Washington T'y	28.20	716.3	29.91	759.7	55	12.8	90	se.	1	0.4		0	0			0.07	1.8	clear	G. W. Scott.
Deadwood, Dakota	25.45	646.4	29.88	758.9	65	18.3	65	sw.	4	1.8		0	0			0	0	clear	D. J. Carr.
Decatur, Texas					75	23.9	52	se.	4	1.8		0	0			0	0	clear	T. S. Townsend.
Delaware Breakwater, Del	30.27	768.8	30.29	769.4	69	20.6	84	se.	15	6.7		2 ck	7 s			0	0	cloudy	J. McGlone.
Denison, Texas	29.24	742.7	30.02	762.5	75.4	24.1	85	s.	3	1.3		0	0			0	0	clear	F. M. Neal.
Denver, Colorado	24.86	631.4	29.88	758.9	62.0	16.7	46	s.	6	2.7		0	0			0	0	clear	F. W. Conrad.
Des Moines, Iowa	29.12	739.6	30.00	762.0	65	18.3	90	w.	1	0.4			10 s		w.	0	0	threatening	C. F. R. Wappenhans.
Detroit, Michigan	29.32	744.7	30.01	762.2	72.3	22.4	90	s.	8	3.6			10 s		s.	0.26	6.6	cloudy	W. M. Mattingly.
Dodge City, Kansas	27.41	696.2	29.89	759.2	69	20.6	70	s.	12	5.4		0	0			0	0	clear	J. Harvey Smith.
Dubuque, Iowa	29.27	743.4	29.99	761.0	67.8	19.9	90	s.	1	0.4			10s;ks		s.	0	0	cloudy	N. B. Conger.
Duluth, Minnesota	29.35	745.5	30.07	763.8	59	13.3	100	ne.	10	4.5			10 n		ne.	0.36	9.1	light rain	F. Belford.
Eagle Pass, Texas	29.23	742.4	30.02	762.5	77.1	25.1	82	se.	3	1.3		0	0			0	0	clear	J. M. Clifford.
Eagle Rock, Idaho	25.30	642.6	29.86	758.4	52	11.1	64	s.	2	0.9		0	0			0	0	clear	D. C. Murphy.
Eastport, Maine	30.19	766.8	30.26	768.6	64.0	17.8	78	sw.	2	0.9		5 c	0			0	0	fair	W. J. Cundall.
Elliott, Fort, Texas	27.25	692.1	29.89	759.2	63	17.2	58	se.	12	5.4		0	0			0	0	clear	J. F. Marshall.
El Paso, Texas	26.30	668.0	29.90	759.4	70	21.1	55	ne.	4	1.8		0	0			0	0	clear	Peter Wood.
Erie, Pennsylvania	29.38	746.2	30.09	764.3	64	17.8	84	s.	25	11.2			10 s		s.	0.56	14.2	cloudy	George Heathcote.
Escanaba, Michigan	29.39	746.5	30.03	762.7	65	18.3	81	n.	6	2.7			10 s		se.	0.04	1.0	cloudy	Frank Halwegler.
Fredericksburg, Texas	28.32	719.3	30.03	762.7	72	22.2	90	calm	0	0		1 k	0			0.85	21.6	clear	E. O'C. Macnamey.
Galveston, Texas	30.00	762.0	30.05	763.3	82.5	28.1	81	s.	4	1.8		2 c	3 ks		se.	0	0	fair	W. A. Reid.
Grand Haven, Michigan	29.34	745.2	29.98	761.5	67.0	19.4	92	ne.	2	0.9			10 s			0.23	5.8	cloudy	Robert C. Lord.
Grant, Fort, Arizona	25.28	642.1	29.86	758.4	67.9	19.9	68	calm	0	0			10 s			0.01	0.3	cloudy	R. M. Crawford.
Hatteras, North Carolina	30.14	765.5	30.16	766.1	78	25.5	88	se.	10	4.5		4 k	5 s	se.		0	0	cloudy	N. C. Smith.
Helena, Montana	25.81	655.6	29.90	759.4	58	14.4	60	sw.	3	1.3		0	0			0	0	clear	J. W. Byram.
Henrietta, Texas	29.06	738.1	30.06	763.5	78.0	25.6	88	s.	5	2.2		0	0			0	0	clear	S. W. Glenn.
Huron, Dakota	28.67	728.2	30.01	762.2	54.7	12.6	86	ne.	3	1.3		0	0			0	0	clear	O. Schutze
Indianapolis, Indiana	29.22	742.2	29.99	761.7	73	22.8	97	sw.	3	1.3			10s;fg		sw.	0.02	0.5	cloudy	I. A. Reed.
Indianola, Texas	29.99	761.7	30.02	762.5	79.6	26.4	88	s.	4	1.8		2 cs	1 ks	w.		0	0	clear	J. P. Sherry.
Jacksboro, Texas	28.88	733.5	30.00	762.0	75	23.9	85	s.	2	0.9		0	0			0	0	clear	J. W. Smith.
Jacksonville, Florida	30.08	764.0	30.12	765.0	79	26.1	88	se.	2	0.9		3 cs	0	w.		0.04	1.0	clear	A. Schneider.
Keogh, Fort, Montana	27.44	697.0	29.87	758.7	68	20.0	76	e.	6	2.7		0	0			0	0	clear	F. Z. Gosewisch.
Keokuk, Iowa	29.34	745.2	29.97	761.2	69.5	20.8	90	calm	0	0		6 k	0	w.		0	0	fair	R. H. Paxton.
Key West, Florida	30.00	762.0	30.02	762.5	84.0	28.9	80	se.	6	2.7		4 cs	4 k		se.	0.35	8.9	cloudy	E. A. Beals.
Kittyhawk, North Carolina	30.19	766.8	30.21	767.3	75.5	24.2	79	e.	15	6.7			10 s			0.20	6.6	cloudy	J. A. Cody.
Knoxville, Tennessee	29.11	739.4	30.12	765.0	72	22.2	98	sw.	3	1.3			10 n		sw.	0.04	1.0	light rain	S. C. Emery
La Crosse, Wisconsin	29.21	741.9	29.96	761.0	67	19.4	90	n.	1	0.4			10 s		n.	0.28	7.1	cloudy	N. D. Lane.
La Mesilla, New Mexico	26.14	663.9	29.86	758.4	65.0	18.3	78	calm	0	0		0	0			imap.	imap.	clear	A. W. Browne.
Leavenworth, Kansas	29.13	739.9	29.99	761.7	71	21.7	82	s.	3	1.3		2 k	0			0	0	clear	W. Bell.
Lewiston, Idaho	29.07	738.4	29.88	758.9	66.0	18.9	73	s.	1	0.4		0	0			imap.	imap.	clear	W. U. Simons.
Little Rock, Arkansas	29.73	755.1	30.04	763.0	74	23.3	97	s.	2	0.9			10 s			0	0	cloudy	Egbert van Dyke.
Los Angeles, California	29.59	751.6	29.98	761.5	60.2	15.7	87	sw.	3	1.3			10 s			0	0	cloudy	H. C. Smyth.
Louisville, Kentucky	29.45	748.0	30.00	762.0	76	24.4	90	sw.	5	2.2			10 s			0.16	4.1	cloudy	Lewis Duane.
Lynchburg, Virginia	29.51	749.5	30.18	766.6	68	20.0	99	ne.	5	2.2			10 n		e.	1.14	29.0	light rain	F. P. Chaffee.
Macon, Fort, North Carolina	30.15	765.8	30.16	766.1	79	26.1	91	ne.	3	1.3		6 c;hz	0			0.80	20.3	fair	C. A. Shaw.
Madison, Wisconsin	29.00	736.6	29.98	761.5	65	18.3	93	e.	3	1.3			10 s		e.	imap.	imap.	cloudy	H. W. Dodge.
Maginnis, Fort, Montana	25.60	650.2			58	14.4	55	n.	6	2.7		0	0			0	0	clear	J. E. Thatcher.
McKavett, Fort, Texas	27.84	707.1	30.05	763.3	71	21.7	76	e.	2	0.9		0	0			0.23	5.8	clear	J. Gilligan.
Marquette, Michigan	29.38	746.2	30.10	764.5	59	15.0	93	n.	5	2.2			10 n			0.00	1.5	light rain	D. T. Flannery.
Memphis, Tennessee	29.75	755.6	30.08	764.0	76	24.4	97	s.	3	1.3			10 s			0	0	cloudy	W. Line.
Milwaukee, Wisconsin	29.25	742.9	29.98	761.5	65	18.3	100	ne.	6	2.7			10n;fg			0.05	1.3	light rain	

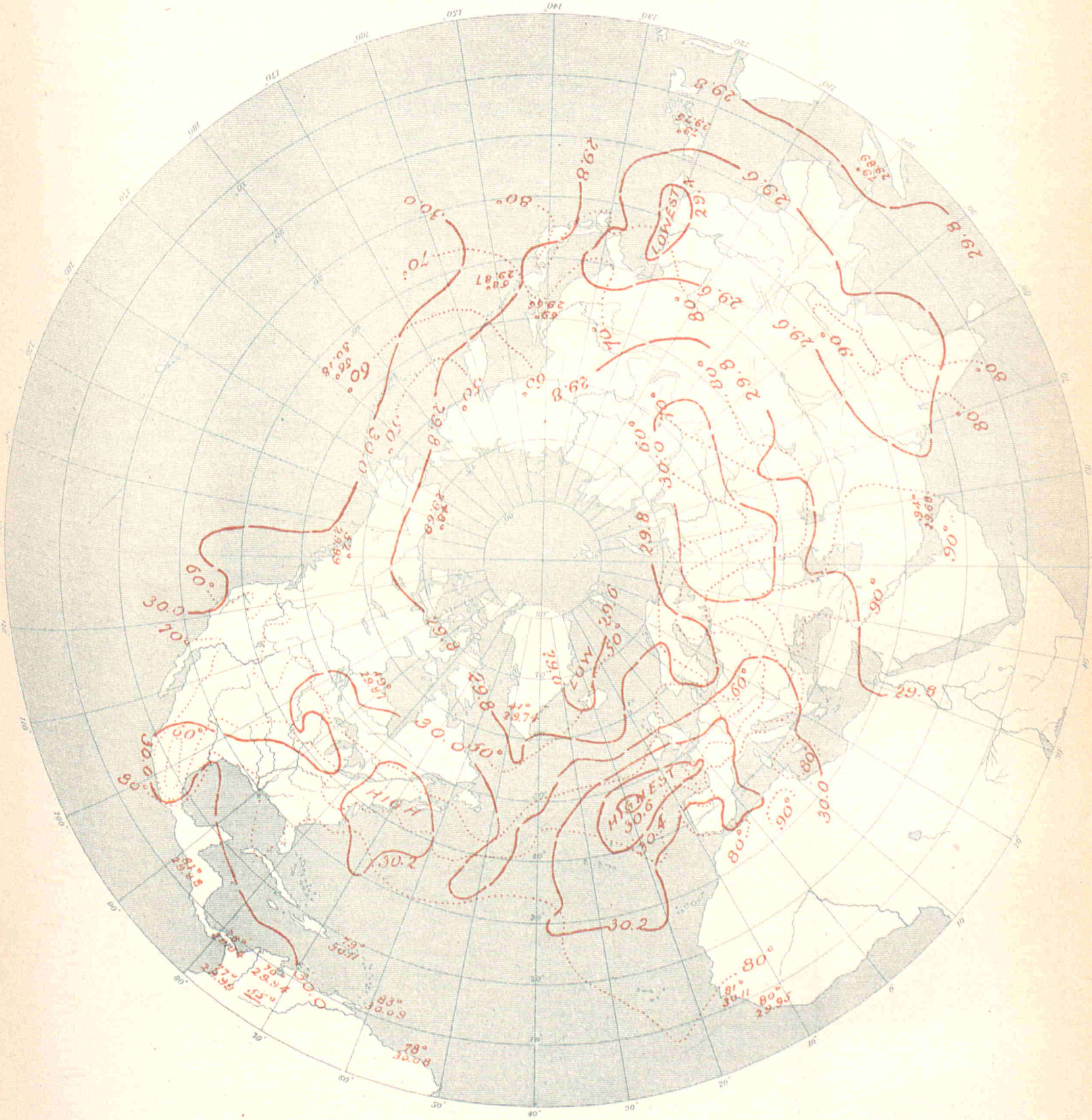
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.69	677.9	29.91	759.7	53	11.7	93	w.	1	0.4	.....	0	0	.....	.....	0.12	3.0	clear	J. H. Jones.
Mobile, Alabama	30.06	763.5	30.10	764.5	77	25.0	85	ne.	2	0.9	.....	1 cs	0	.....	.....	0	0	clear	C. A. Read.
Montgomery, Alabama	29.89	759.2	30.12	765.0	75.2	24.0	87	s.	1	0.4	.....	3 k	4 s	w.	nw.	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.08	738.6	30.05	763.3	61.2	16.2	87	ne.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.15	740.4	30.15	765.8	66.0	18.9	78	sw.	4	1.8	.....	.....	10 s	.....	sw.	0.21	5.3	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H	24.18	614.2	30.26	768.6	46.0	7.8	83	n.	21	9.4	.....	4 cs	1 k	n.	n.	0	0	fair	J. G. Linsley.
Nashville, Tennessee	29.50	749.3	30.06	763.5	75.5	24.2	85	s.	2	0.9	.....	.....	10 ks	.....	sw.	0.01	0.3	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.24	768.1	30.35	770.9	65	18.3	90	nw.	2	0.9	.....	5 c	2 k; sk	nw.	s.	0	0	fair	J. H. Sherman.
New London, Connecticut	30.33	770.4	30.38	771.6	71	21.7	76	calm	0	0	.....	7 k	1 s	sw.	sw.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.01	762.2	30.06	763.5	81.5	27.5	84	n.	1	0.4	.....	1 c	sk.	nw.	.....	0.28	7.1	clear	L. Dunne.
Newport, Rhode Island	30.31	769.9	30.36	771.1	67.4	19.7	69	s.	6	2.7	.....	5 c;k	1 s	ne; se	.....	0	0	fair	W. McGillivray.
New York, New York	30.18	766.6	30.36	771.1	68	20.0	84	e.	8	3.6	.....	7 cs	fg.	w.	.....	0	0	fair	J. B. Merrill.
Norfolk, Virginia	30.18	766.6	30.21	767.3	75	23.9	76	e.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.11	688.6	29.91	759.7	68.1	20.1	90	ne.	6	2.7	.....	.....	10 s	.....	.....	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	29.86	758.4	29.90	759.4	57.0	13.9	93	calm	0	0	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.67	753.6	29.69	754.1	47.5	8.6	98	wsw.	21	9.4	.....	.....	10 s	.....	sw.	0	0	cloudy	P. H. Ray.
Omaha, Nebraska	28.84	732.5	29.98	761.5	69.5	20.8	83	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Oswego, New York	29.92	760.0	30.24	768.1	72.0	22.2	64	se.	8	3.6	.....	10 cs	0	sw.	.....	0	0	cloudy	S. W. Beall.
Palestine, Texas	29.53	750.0	30.07	763.8	75.5	24.2	94	s.	5	2.2	.....	3 ck	6 ks	w.	s.	2.42	61.5	cloudy	L. M. Pindell.
Pensacola, Florida	30.06	763.5	30.09	764.3	79.0	26.1	88	ne.	3	1.3	.....	0	4 s	.....	se.	0.07	1.8	fair	M. McGauran.
Philadelphia, Pa	30.23	767.8	30.33	770.4	69	20.6	78	ne.	3	1.3	.....	.....	10s; hz	.....	ne.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.15	461.0	29.94	760.5	38	3.3	59	nw.	5	2.2	.....	0	0	.....	.....	inap.	inap.	clear	L. M. Dey.
Pioche, Nevada	24.13	612.9	29.83	757.7	63	17.2	47	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.35	745.5	30.14	765.5	61.0	16.1	90	e.	6	2.7	.....	.....	10 n	.....	e.	0.74	18.8	light rain	J. B. Turton.
Poplar River, Montana	27.86	707.6	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0.06	1.5	clear	W. D. Maxwell.
Port Eads, Louisiana	30.06	763.5	30.08	764.0	79.7	26.5	88	calm	0	0	.....	2 c	1 k	.....	.....	0	0	clear	M. Hermann.
Port Huron, Michigan	29.34	745.2	30.00	762.0	67.5	19.7	100	se.	1	0.4	.....	.....	10 n	.....	.....	2.24	56.9	heavy rain	W. O. Bailey.
Portland, Maine	30.25	768.3	30.30	769.6	67.5	19.7	78	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.80	756.9	29.87	758.7	60.0	15.6	93	calm	0	0	.....	.....	10 s	.....	n.	0	0	cloudy	M. L. Hearne.
Prescott, Arizona	24.87	631.7	29.85	758.2	62	16.7	90	s.	1	0.4	.....	0	0	.....	.....	0.14	3.6	clear	J. Mc N. Wright.
Provincetown, Mass	30.32	770.1	30.35	770.9	70	21.1	56	s.	5	2.2	.....	3 cs	3 s	sw.	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.04	763.0	30.05	763.3	76.5	24.7	94	ne.	6	2.7	.....	8 cs	2 ks	calm	ne.	0.68	17.3	cloudy	W. J. Evans.
Red Bluff, California	29.53	750.0	29.89	759.2	66.6	19.2	62	s.	9	4.0	.....	5 k	0	sw.	.....	0	0	fair	J. M. Frantz.
Rio Grande City, Texas	29.82	757.4	30.06	763.5	81	27.2	69	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Rochester, New York	29.57	751.1	30.22	767.6	69	20.6	66	s.	14	6.3	.....	.....	10s; hz	.....	.....	0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.34	745.2	29.88	758.9	58	14.4	86	calm	0	0	.....	.....	10 ks	.....	sw.	0.01	0.3	cloudy	J. J. Nanry.
Sacramento, California	29.89	759.2	29.96	761.0	58.4	14.7	86	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.43	747.5	30.01	762.2	75.0	23.9	97	s.	2	0.9	.....	hz.	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.13	739.9	29.97	761.2	65.0	18.3	93	nw.	3	1.3	.....	.....	10 n	.....	.....	0.08	2.0	light rain	P. F. Lyons.
St. Vincent, Minnesota	29.23	742.4	30.08	764.0	56	13.3	93	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.67	652.0	29.86	758.4	70	21.1	43	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.35	745.5	30.04	763.0	74.5	23.6	90	calm	0	0	.....	.....	10 s	.....	s.	0	0	cloudy	T. J. Kenan.
San Diego, California	29.87	758.7	29.94	760.5	62.8	17.1	84	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.37	746.0	30.03	762.7	71	21.7	90	s.	7	3.1	.....	.....	10 s	.....	.....	0.67	17.0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.30	769.6	30.34	770.6	73.0	22.8	71	e.	8	3.6	.....	10 ck	0	e.	.....	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.95	760.7	30.02	762.5	59	15.0	87	sw.	5	2.2	.....	.....	5s; fg	.....	w.	0	0	cloudy	N. Gorom.
Santa Fé, New Mexico	23.40	594.3	29.89	759.2	63	17.2	41	e.	8	3.6	.....	0	0	.....	.....	inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	30.04	763.0	30.13	765.3	80	26.7	82	s.	1	0.4	.....	.....	10 ks	.....	s.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.38	670.0	29.91	759.7	52	11.1	80	w.	7	3.1	.....	1 cs	0	.....	.....	0.06	1.5	clear	A. L. Mathews.
Shreveport, Louisiana	29.82	757.4	30.05	763.3	75	23.9	97	s.	2	0.9	.....	1 k	hz.	.....	.....	0.94	23.9	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.79	731.3	29.97	761.2	71.5	21.9	91	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Silver City, New Mexico	24.37	619.0	29.83	757.7	59	15.0	58	s.	2	0.9	.....	0	2 s	.....	calm	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.93	760.2	29.99	761.7	51.5	10.8	93	ne.	7	3.1	.....	.....	10 n	.....	ne.	inap.	inap.	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.57	751.1	30.03	762.7	74.5	23.6	90	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.12	765.0	30.16	766.1	81	27.2	85	s.	7	3.1	.....	hz.	4 k	.....	s.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.92	709.2	29.92	760.0	59	15.0	84	calm	0	0	.....	4 k	0	sw.	.....	0.02	0.5	fair	D. Moore.
Springfield, Illinois	29.34	745.2	30.00	762.0	73	22.8	86	calm	0	0	.....	0	3 k; s	.....	w.	0.04	1.0	clear	T. B. Jennings.
Springfield, Massachusetts	30.23	767.8	30.36	771.1	65.2	18.4	84	s.	1	0.4	.....	.....	fg.	.....	s.	0	0	dense fog	T. S. Outram.
Springfield, Mo	28.62	726.9	30.01	762.2	73	22.8	84	sw.	7	3.1	.....	hz.	0	.....	.....	0	0	clear	J. B. Marbury.
Starkville, Miss	29.62	752.3	30.09	764.3	76	24.4	90	se.	2	0.9	.....	.....	10 s	.....	s.	1.06	26.9	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.25	717.5	30.03	762.7	57	13.9	86	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.03	686.5	29.97	761.2	71.0	21.7	76	s.	20	8.9	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thomas Camp	27.20	690.9	29.82	757.4	77.5	25.3	51	s.	.....	.....	1	2 ck	4 ks	s.	s.	0	0	fair	
Thatcher's Island, Mass	30.28	769.1	30.33	770.4	68.0	20.0	93	s.	9	4.0	.....	.....	fg.	.....	.....	0	0	dense fog	G. Liebmann.
Toledo, Ohio	29.33	745.0	30.00	762.0	72	22.2	90	se.	3	1.3	.....	.....	10 s; fg	.....	.....	0.61	15.5	cloudy	A. Buell.
Tucson, Arizona	27.55	699.8	29.89	759.2	76	24.4	66	ne.	2	0.9	.....	5 ck	0	.....	.....	0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.50	750.8	29.92	760.0	60	15.6	81	se.	5	2.2	.....	7 ck	2 s	sw.	se.	inap.	inap.	cloudy	J. Daly.
Uvalde, Texas	29.07	738.4	30.01	762.2	74	23.3	90	e	3	1.3	.....	0	0	.....	.....	0	0	clear	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	72.9	22.7	51	n.	.....	.....	1	3 k	4 s	sw.	nw.	0	0	fair	D. Brooks.
Vicksburg, Mississippi	29.82	757.4	30.06	763.5	75	23.9	90	se.	1	0.4	.....	.....	9 s	.....	.....	0.05	1.3	cloudy	James Kenealy.
Visalia, California	29.56	750.8	29.93	760.2	64	17.8	68	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washakie, Fort, Wyoming	24.57	624.1	29.91	759.7	51.0	10.6	57	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C	30.17	766.3	30.28	769.1	69.4	20.8	84	ne.	3	1.3	.....	.....	10 s	.....	ne.	0	0	threatening	F. M. M. Beall.
West Las Animas, Colorado	26.08	662.4	29.83	757.7	61.9	16.6	52	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.69	754.1	30.27	768.8	68	20.0	73	e.	6	2.7	.....	.....	10 ks	.....	s.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.11	764.8	30.16	766.1	77	25.0	97	calm	0	0	.....	0	7s; fg	.....	.....	0.83	21.1	fair	Samuel A. Haney.
Winnemucca, Nevada	25.62	650.7	29.85	758.2	58	14.4	33	s.	6	2.7	.....	6 c	0	sw.	.....	0	0	fair	J. Grover.
Yankton, Dakota	28.76	730.5	30.03	762.7	61	16.1	78	ne.	3	1.3	.....	0	4 ks	.....	.....	0	0	fair	J. H. Atfield.
Yuma, Arizona	29.65	753.1	29.79	756.7	80.0	26.7	54	ne.	1	0.4	.....	2 ck	2 s	se.	.....	0	0	fair	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	55.0	12.8	72	se.	6	2.7	.....	.....	10 s	.....	nw.	0.14	3.6	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W.I	30.08	764.0	30.09	764.3	83	28.3	87	e.	.....	.....	.....	0	5 ks	.....	.....	0	0	fair	J. A. Racker.
Buenaventura, U. S. C	29.96	761.0	29.99	761.7	77	25.0	90	s.	4	1.8	.....	.....	10 ks	.....	s.	0	0	cloudy	J. I. Plume.
Havana, Cuba†	29.98	761.5	30.04	763.0	79	26.1	88	se.	3.6	1.6	.....	10 c	4 k	.....	se.	0	0	cloudy	Robert Johnston.
Kingston, Jamaica, W. I	30.03	762.7	30.04	763.0	81.8	27.7	81	ese.	3	1.3	0	.....	10 s	.....	e.	0	0	cloudy	S. M. Pike.
Magua, San Domingo, W. I	.....	.....	.....	.....	74	23.3	.....	calm	.....	.....	.....	0	1 ck	.....	e.	0	0	.....	F. M. Everett.
Navassa	29.91	759.7	29.99	761.7	81	27.2	78	ne.	9	4.0	.....	5 k	3 ks	e.	ne.	0	0	cloudy	Chas. Hosselbrink.
Paramaribo, S. A	30.08	764.0	30.08	764.0	78	25.6	86	se.	.....	.....	2	4 c	0	e.	.....	0.050	1.3	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.38	746.2	29.94	760.5	76	24.4	89	calm	.....	.....	0	.....	10 ks	.....	s.	0.10	2.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A	.....	.....	.....	.....	.....	.....	95	ne.	.....	.....	2	7 ck	0	se.	.....	0.04	1.0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I	30.00	762.0	30.13	765.3	81	27.2	79	e.	.....	.....	.....	0	2 k	.....	e.	0	0	clear	Walloe.
York Factory, B. A	29.81	757.2	29.87	758.7	49.0	9.4	93	e.	14	6.3	.....	3 k	7 s	e.	e.	0.10	2.5	cloudy	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, N. 8° 19′ W. 23° 54′	30.05	763.3	79	26.1	82	ssw.			4–5		10							showery.
H. M. S. Alexandra, Alexandria, Egypt	29.85	758.2	82	27.8	87	nw.			1–2		2	nnw.				1	wnw.	d. clouds.
H. M. S. Amethyst, S. 27° 12′ W. 48° 14′	30.33	770.4	57.3	14.1	81	s.			1		7					3	sse.	d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.90	759.4	80	26.7		ne.			3		2	n.						d. clouds.
H. M. S. Arab, Muscat, Arabia	29.52	749.8	89.5	31.9	74	wnw.			1		3	se.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.42	772.7	60.5	15.8		se.			1–2		2							d. clouds.
H. M. S. Champion, N. 41° 30′ E. 142° 00′			72	22.2	90	wnw.			2		3	calm				2	se.	d. clouds.
H. M. S. Comus, N. 48° 25′, W. 125° 00′	29.87	758.7	54	12.2	86	calm			0		4	nne.				3	nnw.	misty.
H. M. S. Diamond, S 9° 02′, E. 159° 05′	29.87	758.7	81	27.2	86	calm			0		9							d. clouds.
H. M. S. Dido, N. 15° 30′, W. 61° 30′	30.13	765.3	80	26.7		ne.			1		4	ne.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.06	763.5	77.5	25.3	86	nnw.			4–5		5	nnw.						d. clouds.
H. M. S. Druid, N. 46° 50′, W. 32° 37′	30.27	768.8	67.5	19.7	94	sse.			4		7	sse.				3	sse.	misty.
H. M. S. Emerald, N. 28° 40′, W. 33° 50′	30.20	767.1	75.5	24.2	100	ne.			0–1		4	nne.				3	ne.	showery.
H. M. S. Espiegle, S. 15° 39′ E. 166° 44′	29.93	760.2	76	24.4	81	ene.			4–6		3	sw.						d. clouds.
H. M. S. Fantome, N. 15° 06′ W. 73° 35′	29.99	761.7	84	28.9		e.			5		6	e.				6	e.	d. clouds.
H. M. S. Flying Fish, N. 33° 53′ E. 127° 24′	29.58	751.3	81	27.2	91	s.			3–4		8					4	s.	d. clouds.
H. M. S. Garnet, S. 12° 04′, W. 77° 11′	30.03	762.7	58.5	14.7	87	se.			2		10							overcast.
H. M. S. Garnet, N. 31° 50′ W. 34° 10′	30.22	767.6	79	26.1	73	var.			2		4							d. clouds.
H. M. S. Griffon, N. 48° 56′, W. 58° 38′	30.15	765.8	53.5	11.9	86	calm			0		10							foggy.
H. M. S. Iron Duke, N 49° 20′ E. 139° 25′	29.56	750.8	69	20.6	95	calm			0		4							d. clouds.
H. M. S. Lark, S. 10° 28′, E. 161° 59′	29.91	759.7	79.3	26.3	93	se.			2		5					2	se.	showery.
H. M. S. Liffey, Coquimbo, Chili	29.92	760.0	56	13.3		calm			0		7							d. clouds.
H. M. S. Magpie, N. 34° 43′, E. 128° 37′	29.64	752.8	81.1	27.3	88	se.			1–2		4	w.				3	w.	misty.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.82	757.4	82.5	28.1	79	nw.			3		5							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	30.19	766.8	62.5	16.9	78	calm			0		0							blue sky.
H. M. S. Orontes, N. 36° 50′, E. 12° 20′	30.06	763.5	74.5	23.6	95	nw.			4		4	nw.				3	nw.	d. clouds.
H. M. S. Pegasus, N. 5° 24′, E. 100° 20′	29.89	759.2	79	26.1	100	nne.			1–2		10							raining.
H. M. S. Rambler, S. 14° 24′ W. 7° 27′	30.12	765.0	69	20.6	95	ese.			4		5	ese.				4	se.	d. clouds.
H. M. S. Sappho, N. 17° 00′ W. 154° 00′	29.92	760.0	77	25.0	100	ne.			6		4	ne.				4	ne.	d. clouds.
H. M. S. Swiftsure, S. 52° 20′, W. 68° 00′	29.82	757.4	40	4.4	90	nnw.			6–7		10	nnw.				8	nnw.	misty.
H. M. S. Tenedos, N. 51° 40′ W. 55° 22′	30.04	763.0	55	12.8	87	wsw.			2		1							blue sky.
H. M. S. Thetis, S. 9° 40′ W. 78° 25′	30.02	762.5	60	15.6	88	se.			2		10					3	s.	misty.
H. M. S. Triumph, Sandy Point, Patagonia	29.74	755.4	36	2.2	80	w.			1		8	calm						d. clouds.
H. M. S. Tyne, N. 38° 17′, W. 18° 25′	30.20	767.1	68	20.0	84	ene.			3–5		9	calm				3–4	e.	d. clouds.
H. M. S. Woodlark, Jask, Persia	29.58	751.3	93.5	34.2	61	wsw.			3–4		2	sw.				2	sw.	d. clouds.
H. M. S. Zephyr, N. 40° 25′, E. 142° 31′	29.75	755.6	70	21.1	100	s.			5		2					4	s.	d. clouds.
Portuguese Naval.																		
Rio Lima, Bulama, Senegambia	30.11	764.7	80.6	27.0	88	calm			0		5			17 h'r	17 h'r			raining.
Tamega, Macao, China	29.47	748.4	89.2	31.8	87	sw.			3		4		sw.					d. clouds.
Swedish Naval.																		
Saga, N. 61° 30′, E. 3° 25′	29.86	758.4	59.9	15.5	84	n.			2		3							d clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla.	30.07	763.8	78	25.6	86	ne.	2	0.9			8		ne.	0.21	5.3			fair.
Navy Yard, Portsmouth, N. H.	30.34	770.6	68	20.0	79	nw.	2	0.9			0			0	0			hazy.
Naval Hospital, Yokohama, Japan*	29.81	757.2	79	26.1	86	s.			1		1		ssw.	0	0			clear.
Adams, Mare Island, Cal.			63	17.2	78	sw.			1		0			0	0	sm'h		clear.
Alaska, S. 11° 18′, W. 82° 24′	29.97	761.2	62	16.7	83	s.			1		10		s.	0	0	sm'h		cloudy.
Alliance, N. 42° 39′, W. 69° 51′	30.37	771.4	65	18.3	94	sw.			2		8			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan*	29.84	757.9	79	26.1	91	ssw.			2		2		calm					clear.
Brooklyn, Rio de Janeiro, Brazil	30.30	769.6	66	18.9	100	w.	3	1.3			8		w.	0.07	1.8	sm'h		fair.
Colorado, New York, N. Y.	30.29	769.4	70	21.1	80	s.	5	2.2			8		se.	0	0			misty.
Constellation, New York, N. Y*	30.32	770.1	69	20.6	80	ese.			2		8		ese.			sm'h		cloudy.
Essex, S. 31° 55′, W. 74° 20′	29.78	756.4	58	14.4	94	nw.			5		5?		nw.			long	nw.	clear?
Franklin, Norfolk, Va.	30.23	767.8	75	23.9	77	ese.	3	1.3			10		e.	0	0			cloudy.
Galena, N. 35° 30′, W. 7° 45′	30.14	765.5	76	24.4	95	e.			3		8		e.			mod.	e.	fair.
Independence, Mare Island, Cal.	30.02	762.5	59	15.0	?	sw.			3		5		sw.	0	0			fair.
Iroquois, N. 31° 05′, W. 119° 22′	30.01	762.2	62	16.7	83	nnw.			4		10		nnw.	0	0	sm'h	nw.	cloudy.
Kearsarge, Norfolk, Va.	30.22	767.6	74	23.3	90	ene.			2		10							cloudy.
Lackawana, Callao, Peru*	30.01	762.2	60	15.6	88	se.			1		10							cloudy.
Lancaster, Villafranca, France	30.00	762.0	73	22.8	100	calm			0		5		e.	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	30.32	770.1	46	7.8	100	ene.			2		8		ene.	0	0	sm'h		misty.
Michigan, Green Bay, Wisconsin	29.90	759.4	69	20.6	75	sw.			1		10		se.					cloudy.
Minnesota, Newport, R. I.	30.39	771.9	67	19.4	79	sse.	1	0.4			0							clear.
Monocacy, Che Foo, China*	29.39	746.5	75	23.9	86	nne.			2		8		calm			sm'h	e.	fair.
New Hampshire, Newport, R. I.	30.37	771.4	68	20.0	74	s.			1		8		sw.			sm'h		cloudy.
Nipsic, Tunis, Africa*	30.10	764.5	80	26.7	60	nne.			4		2		ne.			mod	nne.	clear.
Onward, Callao, Peru†	30.13	765.3	59	15.0	94	se.			2		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.77	756.1	80	26.7	87	ssw.			2		8		s.					fair.
Passaic, Washington, D. C.	30.34	770.6	69	20.6	95	ne.			2		10							cloudy.
Pensacola, Panama, Panama*	29.79	756.7	77	25.0	91	calm	0	0			10			light	light	sm'h		cloudy.
Portsmouth, Genoa, Italy*	29.99	761.7	76	24.4	77	se.			1		2		e.					clear
Powhatan, N. 30° 41′, W. 79° 54′	30.12	765.0	82	27.8	75	ese.			1		2					long	se.	fair.
Quinnebaug, Alexandria, Egypt*	29.79	756.7	81	27.2	87	nw.			4		8		nw.			sm'h		fair.
Ranger, Mare Island, Cal.	30.04	763.0	63	17.2	78	sw.			1		10			0	0			cloudy.
Richmond, Yokohama, Japan*	29.86	758.4	80	26.7	96	ssw.			1		0			0	0			clear.
Saratoga, Genoa, Italy	30.11	764.8	79	26.1	91	sse			1		2		se.	0	0	sm'h		fair.
St. Louis, League Island, Pa.	30.61	777.5	66	18.9	84	ne.			2		8		ne.	0	0			cloudy.
Swatara, Kobe, Japan*	29.62	752.3	80	26.7	78	ssw.			2		10		calm			sm'h		cloudy.
Tennessee, N. 42° 40′, W. 69° 40′	30.39	771.9	67	19.4	79	wsw.	14	6.3			2			0	0	mod.		misty.
Vandalia, Portsmouth, N. H*	30.28	769.1	67	19.4	95	calm			0		8		calm					fair.
Wabash, Boston, Mass.	30.36	771.1	65	18.3	89	sw.	3	1.3			5		sw.	0	0			fair.
Wachusetts, N. 56° 51′ W. 135° 36′ †	30.22	767.6	51	10.6	100	nw.			2		10		calm	0	0	sm'h		misty.
Wyoming, Port Royal, S. C.*	30.10	764.5	80	26.7	82	ne.	2	0.9			8		e.	0	0			cloudy.
Yantic, N. 42° 43′ W. 69° 48′	30.36	771.1	66	18.9	84	wsw.			3		5					sm'h		fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.	Force.	Amount and kind.		Direction.						
									Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mts. p. sec.	0-10	0-10	From.	From.	Inch.	Mill.			
ALLAN LINE.																	
S. S. Circassian, N. 55° 43′, W. 37° 45′.*	29.93	760.2	54	12.2	100	wsw.			3		10	wsw.	inap.	inap.	1	w.	overcast.
S. S. Grecian, Glasgow, Scotland*.	29.99	761.7	64	17.8		w.			4		10	w.					cloudy.
S. S. Waldensian, N. 43° 15′ W 60° 03′*.	30.24	768.1	70	21.1		wsw.			3		5?	wnw.	0	0	light	cross	clear.?
AMERICAN STEAMSHIP COMPANY.																	
S. S. Indiana, N. 43° 56′, W. 41° 31′ †.	30.19	766.8	66	18.9	90	n.			4		5	n.			mod.	n.	fine.
S. S. Lord Clive, N. 40° 48′, W 60° 01′*†.	30.20	767.1				nnw.			3		1	nnw.	0	0	sm'h		fine.
S. S. Lord Gough, N. 51° 11′, W. 15° 18′.	30.26	768.6	70	21.1		sw.			4		2	sw.	0	0	sm'h	sw.	fair.
S. S. Ohio, Philadelphia, Pa. †.	30.22	767.6	71	21.7	95	se.			3		9	e.					cloudy.
AMSTERDAM LINE.																	
S. S. Stella, N. 50° 42′, W. 20° 37′.	30.23	767.8	60.8	16.0		sw.			4		6	sw.	3 h'r	3 h'r	4	sw.	misty.
ANCHOR LINE.																	
S. S. Alexandria, Castellamare, Italy.	30.05	763.3	79	26.1		w.			3		3	w.	0	0			clear.
S. S. Devonia, N. 41° 30′, W. 59° 05′†.	30.27	768.8	64	17.8		nnw.			3		5?	nne.			short	nne.	clear?
S. S. Dorian, N. 41° 39′ W. 33° 03′*.	30.27	768.8	71	21.7		se.			4		1	se.	0	0	mod.	ese.	clear.
S. S. Ethiopia, New York, N. Y.	30.33	770.4	71	21.7	90	sse.			3		6	sse	0	0			hazy.
S. S. Utopia, N. 50° 58′ W. 80 52′ †.	30.52	775.2	66	18.9	73	w.			3		10	wnw.	0	0	mod.	wnw.	hazy.
ATLAS LINE.																	
S. S. Ailsa, N. 11° 02′, W. 75° 00′†.	29.96	761.0	84	28.9	83	ne.			5		5	ne.	0	0	mod.	ne.	dull.
S. S. Alene, N. 26° 44′. W. 74° 02′†.	30.17	766.3				se.			2		3	se.	0	0	mod.	ese.	fine.
S. S. Alpin, Arecibo, Porto Rico, W. I.	30.08	764.0				e.			2		3	ene.	0	0			
S. S. Alvo, N. 16° 42′, W. 76° 02′.	29.93	760.2				ene.			0		4	ene.	0	0	mod.	ene.	fair.
S. S. Antillas, N. 37° 40′, W. 73° 10′.			78	25.6		se.			2		2	se.	0	0	sm'h		foggy.
BRITISH METEOROLOGICAL OFFICE.																	
Auckland, S. 39° 05′ W. 12° 00′.	30.24	768.1	87	13.9	94	nw.			0		9						overcast.
S. Baroda, S. 11° 53′, W. 4° 32′.	30.18	766.6	71.0	21.7	71	sse.			4		2						blue sky.
Bk. Caldew, S. 33° 06′, W. 24° 50′.	30.14	765.5	60	15.6	79	sw.			3		10						overcast.
Bk. Commewyne, N. 38° 12′, W. 50° 01′.	29.91	759.7	74.5	23.5	90	nne.			5		8						misty.
S. S. City of Agra, S. 36° 24′, W. 24° 31′.	30.10	764.5	58.6	14.8	70	calm			0		3						d. clouds.
Bk. Hermine, N. 5° 05′ W. 21° 11′.	30.00	762.0	78.2	25.7		sse.			5		2						misty
S. S. Minho, N. 26° 42′, W. 17° 19′.	30.08	764.0	74.0	23.7	88	e.			4		4						d clouds.
May Hulse, N. 28° 13′, W. 38° 26′.	30.21	767.3	83.7	28.7	67	calm			0		4						blue sky.
S. S. Mertola, N. 50° 39′, W. 6° 00′.	30.38	771.0	60.7	15.9	100	w.			5		10						overcast.
S. Oamaru, S. 12° 52′, W. 9° 20′.	30.21	767.3	71.1	21.7	71	ese.			3-4		8						d clouds.
S. S. Pole Star, N. 41° 26′, W. 35° 07′.	30.26	768.6	73.5	23.1	100	s.			5		7						drizzling.
CROMWELL LINE.																	
S. S. Hudson, N. 31° 02′, W. 80° 25′ †.	30.16	766.1	80	26.7		s.			3		3	s.	1 h'r	1 h'r	sm'h	sse.	fair.
CUNARD LINE.																	
S. S. Bothnia, N. 40° 32′, W. 72° 19′.	30.35	770.9	66	18.9	90	sw.			3		5?	sw.	0	0		sw.	clear ?
S. S. Marathon, Mersey River, Eng.	30.18	766.6	58	14.4		ssw.			5		10	ssw.	5 h'r	5 h'r	mod.	ssw.	raining.
S. S. Scythia, New York, N. Y.	30.34	770.0	72	22.2	85	ene.			1		7	w.	0	0			dull.
GENERAL TRANS-ATLANTIC COMPANY.																	
S. S. Ville de Marseilles, Cadiz, Spain*†.	30.10	764.5	80	30.0		e.			6		0		0	0	short	e.	clear.
HAMBURG AMERICAN PACKET COMPANY.																	
S. S. Herder, Hamburg, Germany*.	29.98	761.5	70	21.1		wsw.			2		2	w.	0	0			clear.
S. S. Silesia, N. 49° 42′, W. 10° 42′.	30.44	773.2	62.8	17.1		wnw.			3		0		0	0	3-4	wnw.	foggy.
S. S. Westphalia, N. 40° 20′, W. 72° 17′.	30.35	770.9	65	18.3	94	ene.			2		5	nw.	0	0	sm'h	ene.	fair.
LAMPERT AND HOLT'S LINE.																	
S. S. Hevelius, Montevideo, Uruguay*†.	30.35	770.9	52	11.1		ene.			4		5	ene.	0	0			hazy.
MALLORY LINE.																	
S. S. Colorado, N. 31° 02′, W. 79° 40′†.	30.15	765.8	83	28.3	79	s.			2		3	s.	0	0	small	s.	clear.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																	
S. S. Archimede, N. 37° 47′ W. 59° 35′*†.	30.17	766.3	73	22.8	85	ne.			4		8	ene.	0	0	r'gh	nne.	fine.
MERCHANTS' STEAMSHIP COMPANY.																	
S. S. Glenapp, N. 20° —′, W. 59° 30′†.	30.11	764.8				e.			3		3	e.	0	0	long	e.	clear.
MORGAN LINE.																	
S. S. Chalmette, New York, N. Y.†.	30.37	771.4	77.5	25.3		ne.			1		2	nw.	0	0			clear.
S. S. New York, N. 32° 55′, W. 78° 30′†.	30.23	767.8	80	26.7		se.			2		2	se.			sm'h	se.	clear
NATIONAL LINE.																	
S. S. Canada, Off Start Point, England†.	30.31	769.9	60	15.6		wsw.			4		9	nw.	0	0	sm'h	nw.	hazy.
S. S. Denmark, New York, N. Y.	30.20	769.4	72	22.2		ese.			3		10	e.	0	0			cloudy.
S. S. England, N. 51° 03′, W. 13° 12′.	30.37	771.4				w.			4		5	w.	0	0	slight	nw.	fine.?
S. S. Erin, N. 40° 40′ W 59° 48′.	30.18	766.6	63	17.2	?	n.			5		2	nne.	0	0	h'vy	ne.	fine.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																	
S. S. Santiago, Guantanamo, W. I.	30.10	764.5	78	25.6		n.			5		2	e.	2 h'r	2 h'r			fine.
NEW YORK HAVANA AND MEXICAN MAIL.																	
S. S. City of Alexandria, Havana, Cuba, W. I †.	30.21	767.3	84	28.9	96	sse.			2		2	s.	2 h'r	2 h'r			showery.
S. S. City of Washington, N. 19° 07′, W. 95° 24′*†.	30.05	763.3	83	28.3		ne.			2		8?	ne.	0	0	sm'h		clear?
NORTH GERMAN LLOYD.																	
S. S. Graf Bismark, N. 47° 15′, W. 60 10′.	30.53	775.4	64.4	18 0		nw.			2		2	nnw.	0	0	sm'h	nnw.	clear.
S. S. Leipzig, N. 41° 23′, W. 61° 24′.	30.25	768.3	71.0	21.7	66	wnw.			2		2		0	0	sm'h		clear.
S. S. Ohio, N. 46° 39′, W. 29° 30′.	30.42	772.7				ssw.			5		2	sw	0	0	mod.	ssw.	fair.
S. S. Sallier, N. 50° 13′, W. 34° 03′.	30.13	765.3	51.8	11.0		ssw.			6		10	ssw.	0	0	r'gh	sw.	foggy.
S. S. Strassburg, N. 41° 55′, W. 55° 29′.	30.11	764.8	62.0	16.7	83	n.			4		4	nne.	0	0	sm'h	nne.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																	
S. S. Belgic, N. 42° 45′, W. 176° 45′ †.	30.28	769.1	66	18.9	89	sw.			2		10	sw.	0	0	sm'h		foggy.
S. S. Coptic, N. 26° 03′, E. 121° 39′.	29.28	743.7	80.0	26.7	98	nnw.			2		10	nne.	20 h'r	20 h'r		ne.	drizzling.
S. S. Gaelic, N. 39° 04′, E. 159° 07′†.	30.05	763.3	68	20.0	90	ssw.			3		4	sw.			sm'h		fair.
OCEAN STEAMSHIP COMPANY.																	
S. S. City of Augusta, Savannah, Ga.†.	30.23	767.8				calm			0		8?	s.	light	light			clear?
S. S. Seminole, Boston, Mass†.	30.37	771.4	72	22.2	90	sw.			1		1	sw.	0	0			clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																	
S. S. Columbia, N. 45° 19′, W. 124° 08′.†.	29.86	758.4	58	14.4	91	ne.			3		10	nne.			sm'h	n.	light rain.
S. S. Oregon, San Francisco, Cal. †.	30.03	762.7	59	15.0	94	calm			0		10	w.					foggy.
PACIFIC COAST STEAMSHIP COMPANY.																	
S. S. Ancon, N. 36° 46′, W. 122° 10′†.	29.96	761.0	56	13.3	94	nnw.			3		0				sm'h		clear.
S. S. City of Chester, Santa Barbara, Cal*†.	29.92	760.0	62	16.7	88	e.			1		10	nw.					cloudy.
S. S. Idaho, N. 48° 26′, W. 123° 30′†.	29.90	759.4	52	11.1	85	calm			0		8	s.	0	0	sm'h		cloudy.
S. S. State of California, Portland, Oregon†	29.90	759.4	60	15.6	100	s.			2		6	s.					fair.
S. S. Victoria, N. 43° 25′, W. 124° 12′†.	29.86	758.5	56	13.3	100	se.			4		8	w.	driz.	driz.	light	se.	overcast.
PACIFIC MAIL STEAMSHIP COMPANY.																	
S. S. Australia, Sydney, N. S. W.	29.87	758.7	56	13.3	69	w.			3		1	w.	0	0			clear.
S. S. City of New York, Sydney, N. S. W†.	29.97	761.2	57	13.9	75	calm			0		0		0	0			clear.
S. S. City of Rio de Janeiro, Panama, Panama*†.	30.14	765.8	78	25.6	86	s.			2		5	s.	0	0	sm'h		fair.
S. S. City of Sydney, N. 21° 52′, W. 156° 41′†.	30.04	763.0	76	24.4	77	ne.			4		8	ne.	0	0	mod.	ne.	cloudy.
S. S. City of Tokio, Hong Kong, China†.	29.47	748.5	88	31.1	92	ssw.			2		10	sw.	0	0			fine.
S. S. Colon, N. 37° 57′, W. 73° 50′†.	30.28	769.1	86	26.7		e.			5		0	e.	0	0	mod.		cloudy.
S. S. Costa Rica, Panama, Panama*.	29.81	757.2	78	25.6	95	calm			0		8	ne.	½ h'r	½ h'r	sm'h		raining.
S. S. Grenada, N. 13° 32′, W. 90° 04′†.	29.88	758.0	81	27.2	74	e.			2		2	ese.	0	0	sm'h	ssw.	clear.
S. S. Zelandia, N. 34° 28′, W. 130° 41′.	29.99	761.7	65	18.3	89	w.			2		8	sw.			mod.	w.	fair.
QUEBEC STEAMSHIP CO.																	
S. S. Bermuda, St. Johns, Virgin Id's, W. I.†.	30.28	769.1	82	27.8		ene.			2		2	ene.	2 h'r	2 h'r	gentle	ene.	fine.
S. S. Muriel, N. 33° 02′. W. 60° 35′.	30.15	765.8	80	26.7		se.			2		10		0	0	mod.	nnw.	fair.
RED STAR LINE.																	
S. S. Belgenland, Philadelphia, Pa†.	30.44	773.2	76	24.4	91	e.			4		3	e.	0	0			
S. S. Nederland, N. 49° 18′, W. 14° 14′†.	30.48	774.2	64	17.8	94	wsw.			3		1	wsw.			mod.	w.	clearing.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE—Continued.																		
S. S. Rhynland, N. 49° 35′, W. 11° 20′.	30.60	777.2	67	19.4	84	wnw.			4		10			0	0	long	nw.	dense fog.
S. S. Switzerland, N. 40° 48′, W. 66° 16′†	30.38	771.6				wnw.			1		0			0	0	sm'h		clear.
S. S. Vaderland, Jersey City, N. J:	30.13	765.3	70	21.1	90	ne.			2		5		e.	0	0			hazy.
S. S. Waesland, N. 41° 35′, W. 59° 23′	30.20	767.1	60	15.6		nw.			4		2		nw.	sh'rs	sh'rs	mod.	nw.	fair.
ROTTERDAM LINE.																		
S.S. Schiedam, N. 43° 41′ W 47° 56′	29.89	759.2	69.1	20.6	91	nw.			4		5		ne.	1 h'r	1 h'r	mod.	nne.	cloudy.
S. S. W. A. Scholten, N. 45° 13′, W. 39° 50′*	29.95	760.7	72.4	22.4	85	sw.			6		5		wsw.	4 h'r	4 h'r	mod	w.	
STATE LINE.																		
S. S. State of Florida, N. 41° 13′, W. 65° 41′	30.25	768.3	60	15.6		w.			3		0			0	0	sm'h		fair.
S. S. State of Georgia, N. 53° 24′ W. 22° 14′†	30.09	764 3	58	14.4		ssw.			6–7		10			5 h'r	5 h'r	mod.	ssw.	dull.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 56° 41′, W. 19° 08′†	30.02	762.5	58.1	14.5	82	wsw.			5		10		wsw.	10 h'r	10 h'r	cross	wsw.	
W. I. & PACIFIC S. S. CO.																		
S. S. Venezuela, N. 45° —′, W. 40° —′*	30.00	762.0	75	23.9	95	ssw.			5		8		s.			mod.	s.	hazy.
WHITE CROSS LINE																		
S. S. Plantyn, N. 40° 25′, W. 61′ 28′	30.24	768.1							4		2			0	0	3	n.	
WHITE STAR LINE.																		
S. S. Adriatic, Liverpool, Eng*†	30.27	768.8	64	17.8	94	wnw.			6		10		wnw.	8 h'r	8 h'r			overcast.
S. S. Baltic, N. 42° 00′, W. 52° 49′	30.05	763.3	61	16.1	82	n.			4		7		sse.	0	0	3	nne.	showery.
S. S. Celtic, N. 47° 27′, W. 38° 14′†	30.08	764.0	66	18.9	74	ssw.			6		10		ssw.			mod	sw.	foggy.
S. S. Germanic, N. 41° 04′, W. 55° 34′†	30.19	766.8	61	16.1		n.			5		2		nne.	0	0	mod.	nne.	d. clouds.
S. S. Republic, New York, N. Y†	30.47	773.9	73	22.8	76	ene.			3		9		e.	0	0			d. clouds.
WILSON LINE.																		
S.S. Romano, N. 48° 30′, W. 17° 30′	30.46	773.7	63	17.2		w.			3		0					mod.	wnw.	clear.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa.†	30.32	770.1	74	23.3		e.			1					0	0			
MISCELLANEOUS.																		
Bk. Adelaide, N. 34° 48′, W. 74° 04′*†	30.30	769.6	82	27.8		ene.			3		6		se.	9 h'r	9 h'r	mod.	cross	clearing.
Schr. Ajax, N. 27° 25′ W. 79° 28′†	30.15	765.8				se.			3		10		se.	4 h'r	4 h'r	short	se.	cloudy.
Bk. Alpha, N. 49° 20′, W. 39° 20′†	29.99	761.7	63	17.2		sse.			7		10		sw.	2 h'r	2 h'r	r'gh	s.	foggy.
Bk. Anna Thorman, S. 38° 03′, E. 72° 04′	30.27	768.8	54.5	12.5	82	nw.			6		4 ks?		nw.	sh'r's	sh'r's	cross		cloudy?
S. S. Antonio Lopez, Havana, Cuba, W. I.*	30.04	763.0	78.5	25.8	88	se.			1		7			0	0			cloudy.
Bk. Argonaut, N. 44° 24′, W. 50° 03′*†	30.07	763.8	51.0	10.6		n.			5		10		n.	5 h'r	5 h'r	mod.	n.	raining.
Bk. Aureola, S. 11° 53′, W. 37° 04′*†	30.25	768.3	80	26.7		ese.			4		3		se.	6 h'r	6 h'r	mod.	ene.	clear.
Bk. B. F. Watson, N. 36° 30′, W. 51° 47′†	29.95	760.7	78	25.6		nw.			2		3			0	0	mod.	nw.	clear.
Bk. Bremen, N. 57° 55′. W. 9° 14′*†	29.94	760.5				w.			3		10		w.	6 h'r	6 h'r	mod	w.	cloudy.
Bk. Cato, Malmo, Sweden*†	30.04	763.0				nw.			3									fair.
Bk. Celestina, S. 0° 26′ W. 24° 36′*†	30.07	763.8	77	25.0		e.			2		2		ese.	0	0	sm'h		clear.
Schr. C. R. Flint, N. 34° 00′, W. 75° 30′†	30.37	771.4	76	24.4		se.			1		5		s.	4 h'r	4 h'r	mod.	ne.	fair.
S. Cornelius, N. 46° 05′, W. 13° 41′*†	30.70	779.8	57.2	14.0		nne.			4		7		ne.	0	0	mod.	ne.	fair.
S. S. D. J. Foley, N. 29° 38′, W. 74° 37′†	30.13	765.3				se.			2		2		e.	0	0	mod.	se.	clear.
S. Dora, N. 9° 15′ W. 25° 00′†	30.12	765.0	80.6	27.0		s.			4		9		ssw.	2 h'r	2 h'r	r'gh	sw.	squally.
Schr. Edith R. Seward, N. 30° 30′, W. 73° 50′*†	30.26	768.6	88	31.1		se.			1		3		calm	0	0	mod.	sse.	fair.
S. E. J. Spicer, New York. N. Y*	30.33	770.4	72	22.2		se.			5		7		se.	0	0			fair.
S. Enoch Train, N. 47° 39′, W. 19° 50′†	30.78	781.8				sw.			1		10		calm	0	0	sm'h		overcast.
Bk. Essex, S. 22° 12′, E. 41° 32′*†	30.12	765.0	79	26.1		se.			4		0					sm'h		clear.
Bk. Franklin, N. 44° 45′, W. 35° 00′*†	30.54	775.7				s.			4		0			0	0	sm'h		clear.
Bk. Freya, Baltimore, Md.						e.			4		10		e.	4 h'r	4 h'r			raining.
S. Glendon, N 37° 53′, W. 74° 16′†	30.23	767.8	70	21.1		e.			5		5		e.	0	0	mod.	e.	fair.
Bk. Godfrey, Arklow, Ireland	30.21	767.3	59.9	15.5	93	wsw.			4–5					0	0			fair.
S. Grecian, Hong Kong, China*†	29.50	749.3	84	28.9		sw.			6		6		sw.	0	0	sm'h		clear.
Bk. Gronsvaer, N. 37° 00′, W. 53° 00′†	29.95	760.8				wnw.			3		5			1½ hr	1½ hr	sm'h	wnw.	fair.
Bk Hattie G. McFarland, N. 42 10′, W. 70° 00′*†	30.38	771.6	66	18.9		ssw.			3		3		w.	0	0	sm'h	s.	clear.
Bk. Heinrich & Tonio, N. 39° 38′, W. 51° 30′*†	30.12	765.0	71	21.7		nne.			5–6		7		nne.	0	0	mod.	nne.	cloudy.
Bk. Horace Scudder, Port of Spain, Trinidad, W. I†	30.08	764.0	84	28.9		calm			0		2		calm	1 h'r	1 h'r			blue sky.
S. Ivy, S. 28° 10′ W. 126° 58′†	30.28	769.1	66	18.9		nne.			2		6		sw.	2 h'r	2 h'r	r'gh	wsw.	cloudy.
S. Ismir, S. 15° 23′ E. 105° 40′†	30.04	763.0				ene.			3		8		ene.	0	0	sm'h	ene.	fine.
Schr. James Slater, N. 27° 25′, W. 68° 50′*†	30.45	773.4	85	29.4		n.			1		0			0	0	light	se.	fine.
Schr. Jennie N. Huddell, Philadelphia, Pa†	30.30	769.6	71	21.7	90	e.			2		10		e.	0	0			cloudy.
Bk. Johanne, N. 45° 36′, W. 52 51′*†.	30.05	763.3	55	12.8		wnw.			2		2		wnw.	0	0	sm'h		hazy.
Bg. John Wesley, St. Jago, Cuba, W. I†	29.93	760.2				ne.			1		0			0	0			clear.
Bk. Joseph A. Ropes, S. 32° 35′, W. 25° 45′*†	30.18	766.6	60	15.6	76	wsw.			3		8		w.	0	0	long	w.	cloudy.
Bkt. Josephine, Havana, Cuba, W. I.†	30.02	762.5	81	27.2	87	e.			2		5			0	0			hazy.
Bkt. Kryolith, N. 40° 41′, W. 68° 05′*†	30.36	771.1				ne.			2		0					sm'h		fine.
Light House Tender, Laurel, N. 26° 55′, W. 82° 36′†	30.10	764.5	82	27.8		ne.			3		10		ene.	2 h'r	2 h'r	sm'h		squally.
Bk. Liberia, N. 27° 11′, W 64° 58′.*.	30.06	763.5	84	28.9	82	nnw.			2		4		nnw.	0	0			
Schr. Maggie Abbott, N. 28° 34′, W. 70° 24′†	30.19	766.8				wnw.					0			0	0	short	sse.	clear.
S. Minnie N. Gerow, N. 42° 54′. W. 41° 04′*†	30.00	762.0				sse.			6		7		s.			r'gh	s.	squally.
S. M. P. Grace, S. 56° 40′, W. 73° 02′*	29.54	750.3	42	5.6		nnw.			3				wnw.	slight	slight	r'gh	nnw.	cloudy.
Bk. National Eagle, N. 39° 10′, W. 51° 26′†	29.96	761.0				n.			5		3		ne.	0	0	mod.	nnw.	cloudy.
S. S. Nebo, Genoa, Italy*†	29.98	761.5				n.			1		0			0	0			clear.
S. Orealla, N. 32° 45′, W. 39° 47′*	30.06	763.5				ssw.			2		8		ssw.	0	0	mod.	con.	cloudy.
S.Paramita, N. 26° 30′, W. 133° 42′†	30.02	762.5	74	23.3		nne.			2		5?		n.	0	0	cross		overcast.?
Bk. Rosebud, S. 35° 18′, E. 20° 39*†	30.50	774.7	62	16.7	83	sse.			3		4		e.	light	light	sm'h		fine.
S. St. Francis, N. 37° 06′, E. 61° 45′†	30.21	767.3	72	22.2		n.			7		3		n.	0	0	short	nne.	fine.
Bk. Sunbeam, N. 39° 12′, W. 53° 00′†.	30.02	762.5	72	22.2	90	n.			7		10		nne.	7 h'r	7 h'r	r'gh	n.	cloudy.
S. S. Sunbeam, N. 36° 29′ E. 17° 00′	30.01	762.2	82	27.8	67	n.			5		0					4	nw.	blue sky.
S. Sovereign of the Sea, S. 30° 52′, W. 45° 02′*†	30.22	767.6	58	14.4	81	s.			2–4		4		sw.	2 h'r	2 h'r	long	wsw.	fair.
Bk. Truro, N. 41° 58′, W. 62° 51′*†	30.17	766.3				nnw.			3		0			0	0	mod.	ene.	clear.
U. S. F. C. S. S. FishHawk, Wood's Holl, Mass†	30.52	775.2	66	18.9	67	s.			2		4		calm	0	0			clear.
Bk. Vincenzo Accame, N. 37° 03′, W. 28° 10′†.	30.51	775.0	75.2	24		e.			6		0							clear.
Schr. Viola Reppard, N. 35° 10′, W. 75° 10′†	30.13	765.3	80	26.7		ese.			2		8		ese.	0	0	mod.	ene.	
Bg. Wauburn, Palanque, San Domingo, W. I*†	30.10	764.5				ne.			4		0					mod.	ese.	clear.
Bk. Warden Law, Sunderland, England*	29.35	745.5				wnw.			4		6		wnw.	4 h'r	4 h'r			fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 2, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.23	767.9	76.3	24.6	79	s.			1		1			0	0	very fair	Bouvier.
Algiers			30.25	768.3	78.4	25.8	66	ne.			1		0			0	0	clear	Thève.
La Calle			30.12	765.1	81.7	27.6	73	nnw.			4		4			0	0	cloudy	Fonfrède.
Tunis			30.11	764.8															Jacques.
Saida			30.19	766.7															Percs.
Tebessa			30.15	765.7	78.4	25.8	25	n.			2		1			0	0	very fair	Rigaud.
Geriville					86.0	30.0	10	nne.			4		0			0	0	clear	Lonchamp.
Laghouat			30.16	766.1	95.0	35.0	27	ne.			1		0			0	0	clear	Abraham.
Biskra			30.16	766.1	94.3	34.6	24	nw.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.88	758.9	29.97	761.2	44.0	6.7	86	nw.	9	4.0			1			0.08	2.0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.53	750.0	30.06	763.5	72.7	22.6	56	se.			2		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.26	743.3	30.01	762.3	70.2	21.2	54	wsw.	1.3	0.6			9			0	0		Dr. Wierzbiski.
Eperles	29.12	739.6	29.96	761.0	73.0	22.8	57	calm			0		9 ks			0	0		Julius Mikolik.
Gratz	28.82	731.9	30.02	762.6	70.0	21.1	76	s.			2		5			0.035	0.9		Andreas Rospini.
Hermannstadt	28.62	726.9	30.01	762.2	68.0	20.0	80	nw.			1		10			0.100	2.7	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.76	730.5	30.08	764.1	60.6	15.9	88	nw.			2		10			0.200	5.3	raining	The Staff.
Lemberg	29.06	738.0	30.01	762.2	71.1	21.7	50	se.			1		5			0	0		Dr. T. Stanecki.
Pola	29.91	759.6	30.01	762.3	79.2	26.2	57	wnw.			2		0			0	0		I. R. Hydrographic Office.
Szuthmar	29.55	750.5	29.96	760.9	73.4	23.0	25	sw.			2		5			0	0		Joseph Midlinszky, S. J.
Szegedin	29.77	756.2	30.04	763.1	73.0	22.8	47	sw.			2		2			0	0		Karl Stancel.
Trieste																			Royal Academy.
Vienna	29.36	747.5	30.06	763.5	66.2	19.0	72	w.			3		9			0.028	0.7		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.48	748.8	29.58	751.3	63.5	17.5	55	w.	34	15.2			7			0	0	squally	W. Boswell
Armagh, Observatory	29.83	757.7	30.06	763.5	59.5	15.3	70	wnw.	11	4.9			9					gloomy	S. Call.
Bidston, Liverpool Obs'y			30.01	762.2	61.1	16.2	70	w.	39	17.4			8					overcast	John Hartnup.
Bolton, Sharples			29.96	761.0	58.3	14.6	79	w.	13	5.8			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.42	747.3	29.96	761.0	63.2	17.3	62	nw.			5		9			0	0	overcast	J. McLandsborough.
Bridgetown, Barbadoes	29.57	751.1	29.97	761.2	86.0	30.0	68	ne.			1		2					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington	30.00	762.0	30.03	762.7	69.0	20.6	87	nw.			4.0		10					overcast	John McLaren.
Chatham, School M. E.			30.00	762.0	77.5	25.3	57	w.			1		0					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.91	759.7	30.03	762.7	77.0	25.0	90	wnw.			5		3					d clouds	The Staff.
Fort Napier, Natal	30.04	763.0	30.20	768.6	69.9	21.1	72	sw.			2		10					raining	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	27.89	708.4	30.11	764.8	50.0	13.3	62	nw.			1		4						Sergt. John Robinson.
Gibraltar, Mediterranean	29.74	755.4	29.96	761.0	77.0	25.0	90	ene.			1		3					blue sky	Corpl. F. Norris, A. H.C
Glasgow, Observatory	30.12	765.0	30.17	766.3	82.0	27.8	76	wnw.			5		10					gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.63	752.6	29.84	757.9	58.3	14.6	70	wsw.			4		9					d. clouds	The Staff.
Guernsey	29.87	758.7	30.04	763.0	70.1	24.5	58	w.			2		0					misty	A. Collenette, F. M. S.
Kew, Observatory	29.99	761.0	30.20	768.6	68	20.0	77	w.	20	8.9			8					d. clouds	The Staff.
Leicester, Museum	30.02	762.5	30.05	763.3	74.6	23.7	50	sw.			4		8					d. clouds	J. C. Smith.
Malta, Mediterranean	29.74	755.4	29.99	761.7	66.3	19.1	73	n.			2		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	29.99	759.4	29.98	761.5	79.8	26.6	68	se.			1		5						C. S. Duncombe.
Oscott, St. Mary's College	30.15	765.8	30.20	767.1	84.5	29.2	71	wsw.			6		10					overcast	Warren Middleton.
Oxford, Radcliffe Obs'y	29.51	749.5	30.02	762.5	64.0	17.8	78	wsw.			6		9					threatening	The Staff.
Plymouth	29.83	757.7	30.05	763.5	73.2	22.9	69	w.			4		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys	30.16	766.1	30.23	767.8	75.8	24.3	62						10					showery	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey			29.43	747.5	57.5	14.2	90	nne.			3		3					d. clouds	W. H. Lyne.
Sheffield	29.72	754.9	29.78	756.4	90.0	32.2	53	w.			6		10			inap.	inap.	overcast	W. F. Cooper.
Silloth Rectory	29.71	754.6	29.99	761.7	65.4	18.6	62	w.			6		7			0	0	squally	Rev. F. Redford, M. A.
Stonyhurst, Observatory	29.86	758.4	29.89	759.2	60.8	16.0	73	w.	30	13.4			6					d. clouds	I. New.
Stratfield Turgiss			30.00	762.0	59.4	15.2	65	w.			3		5					d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution					78.0	25.6	60	w.			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.26	768.6	30.27	768.8	73	22.8	63	w.	19	8.5			10			blank	blank	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.	30.21	767.3	30.24	768.1	60.1	15.6	98	w.			0	5 s			nw.	0	0	fair	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.88	758.9	29.92	760.0	70	21.1	69	w.	5	2.2		5 ck	2 k	sw.	sw.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.90	759.4	29.96	761.0	67	19.4	81	sw.	2	0.9		3 k	hz.	calm		0	0	fair	G. A. Blair.
Father Point, Quebec*	29.97	761.2	29.99	761.7	58	14.4	83	sw.	15	6.7						0	0	fair	J. McWilliams.
Fort Garry, Manitoba*	29.34	745.2	30.10	766.1	56	13.3	90	calm	0	0		0	0			0	0	clear	James Stewart.
Halifax, N. S*	29.80	758.4	29.98	761.5	69	20.6	78	w.	4	1.8		2 cs	0			0	0	fair	A. Allison.
Kingston, Ontario*	29.85	758.2	30.17	766.3	70	21.1	73	sw	8	3.6			10 k		sw.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.94	760.5	30.14	765.5	75	23.9	66	w.	4	1.8		8 ck	2 ks	w.		0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.44	747.8	30.12	765.0	63	17.2	93	e.	6	2.7			10 n		se.	0.14	3.6	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.38	746.2	30.06	763.5	66	18.9	100	e.	5	2.2			10 n		se.	0.43	10.9	threatening	H. Morgan.
Port Stanley, Ontario	29.39	746.5	30.02	762.5	67	19.4	87	e.	16	7.2			10 n		e.	0.79	20.1	cloudy	M. Payne.
Quebec, Quebec*	29.77	756.1	30.09	764.3	60	18.9	68	w.			1	0	2 s			0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.74	755.4	30.18	766.0	61	16.1	84	calm			0	8 ck	0	s.		0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.35	745.5	30.04	763.0	66	18.9	87	e.	11	4.9		0	0			0.08	2.0	clear	
St. Andrews, N. B	29.98	761.5	30.03	762.7	65	18.3	86	nw.	1	0.4		0	0			0	0	clear	
Sydney, C. B*	29.84	757.9	29.90	759.4	69	20.6	78	sw.	4	1.8		5 c	0	n.		0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.73	755.1	30.11	764.8	64	17.8	90	se.	12	5.4			10 n		se.	0.20	5.1	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.02	762.5	30.08	764.0	58	14.4	93	sw.	4	1.8		0	fg.			0	0	fair	Lt. F. E. Wilmot, R N
Sub-series.																			
Mount Forest	28.69	728.7	30.11	764.8	63.0	17.2	88	se.			3-4		10 n			0.140	3.6	showery	Wm. Wylie.
St. Johns, Newfoundland	29.99?	761.7?	30.24?	768.1?	53	11.7	93	ne.				0	0			0.10	2.5		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.44	773.2	30.46	773.7	62	16.7	77	sw.	4.3	1.9		0	4 k			0.000	1.5	clear	C. Hansen.
Cape Town, C. G. H. Obs'y	30.30	769.6	30.33	770.4	65.0	18.3	60	wsw.	17	7.6		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.34	745.3	29.37	745.9	80.6	27.0	90	e.	7.4	3.3			5			0.035	0.9		M. Marc Decheyrens, S.J.
DANISH.																			
Copenhagen	29.71	754.7	29.76	755.9	64.4	18.0	67	ssw.	16	7			10						Oversergent Fischer.
Fanöe	29.66	753.4	29.68	753.9	62.6	17.0	91	wsw.			6		9						Overloerer Lauridsen.
Godthaab, Greenland	29.80	756.8	29.84	757.9	45.1	7.3	90	ne.			4		10			0.047	1.2	raining	S. Kleinschmidt.
Ivigtut	29.85	758.1	29.87	758.6	49.1	9.5		calm			0		7						
Stykkisholm, Iceland	29.74	755.5	29.79	756.6	43.5	6.4	81	w.			6		8						A. O. Thorlacius.
Thorshavn	29.42	747.2	29.45	748.1	57.7	14.3	79	nnw.	25	11			3						Overloerer Bergh.
Vestervig	29.52	749.7	29.61	752.0	60.1	15.6	98	sw.			4		10					raining	Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.65	753.1	30.28	769.1	73.8	23.2	64	nnw.			1	2 c	2 s			0	0		M. Labroue, Directo .
Alençon, Normal School	29.68	753.8	30.23	767.8	70.9	21.6	77	sw.			1		k	s.	s.	0	0		M. Nicot, Director.
Arras, Engineer School	29.85	758.3	30.11	764.7	71.8	22.1	71	w			4		k		w.	0	0		M. Fénéon, Command't.
Avignon, Normal School	30.01	762.2	30.09	764.2	82.8	28.2	51	n.			3					0	0		M. Girand, Director.
Bar-sur-Seine	29.67	753.7	30.22	767.5	72.3	22.4	56	sw.			1		8		nw.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.92	760.0	30.18	766.6	71.6	22.0	61	w			2		8		wnw.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.29	744.0	30.17	766.2	65.1	18.4	72	sw.			1		10 n		s.	0.79	20.	covered	M. Gobin, Director.
Bordeaux, Observatory	30.03	762.8	30.28	769.2	78.3	25.7	51	nw.			1		1			0	0	Al. clear	M. Rayet, Director.
Bourges, Normal School	29.68	753.9	30.23	767.8	71.6	22	58	nw.							nw.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.11	764.9	30.36	771.1	72.3	22.4	69	wnw.			2	0	2 k		wnw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.19	766.8	30.26	768.7	60.4	15.8	91	w.			1.5		5		w.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.80	757.0	30.11	764.8	76.8	24.9	72	sw.			6		8	w.	w.	0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.62	752.4	30.13	765.2	69.4	20.8	67	w.			3		8			0.04	1.	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.91	734.4	30.22	767.5	77.0	25.0	58	nne.			1	c	5 k			0	0	½ covered	M. Allnard, Director.
Cluny, Normal School	29.43	747.6	30.26	768.6	69.4	20.8	68	wnw.			2		9		nw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.25	717.5	30.15	765.7	65.8	18.8	88	w.			1		kn	w.	w.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.61	701.2	30.02	762.6	77.7	25.4	38					0	1 k		nw.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.95	735.3	30.02	762.4	88.0	31.1	27	ne.			1		3		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.35	745.5	30.09	764.3	77.7	25.4	73	nw.			1	c	0		ne.	0	0		M. Ablard, Director.
Lamballe, Normal School					73.4	23	59	nw.			3	0	2 k		nw.	0	0	slightly cl'dy	M. Ollitrault, Director.
Lescar, Normal School	29.73	755.2	30.28	769.0	81.0	27.2	43	n.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.25	768.3	30.35	770.9	77.0	25.0	63	n.			1		2		n.	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.21	741.9	30.24	768.1	73.9	23.3	59	n.			1	2 c	5 n	w.	n.	0	0		M. André, Director.
Mans, Normal School	30.02	762.5	30.32	770.1	68.9	20.5	79	nne.			1		5		n.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.76	756.0	30.02	762.6	83.8	28.8	35	w.			2		6		ne.	0	0		M. Stephan, Director.
Montlouis	25.13	638.2	29.97	761.2	69.8	21.0	41	w.	5.6	2.5				sw.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.97	761.2	30.09	764.3	89.6	32	42	nw.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.39	746.4	30.15	765.9	65.5	18.6	69	sw.			2		10 n			0.039	1.0	covered	M. Hasse, Director
Nantes, Observatory	30.19	766.8	30.35	770.9	72.7	22.6	71	nw.			1–2		10 n; k		nw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.05	763.2	30.15	765.8	88.2	31.2	24	nw.	20.6	9.2			7 [n	n.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.62	549.2			55.0	12.8		ne.			1		5		ne.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.18	741.1	30.21	767.2	77.0	25	54	nw.			4		2			0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.47	646.9			57.2	14.0	90	nw.			2		5		nw.	0.004	0.1	½ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.29	769.4	30.32	770.2	79.5	26.4	100	wnw.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.06	763.4	30.27	768.8	72.3	22.4	76	nw.			1		5		se.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.20	716.3	30.39	769.5	74.5	23.6	48	nw.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.06	763.4	30.10	764.6	71.6	22	66	w.			2		5		nw.	0	0	cloudy	M. Brotier.
Saint Maur, Observatory	30.05	763.2	30.21	767.4	73.6	23.1	58	wnw.			1		7		nw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.61	752.1	30.34	770.6	83.3	28.5	36	nnw.			1		2	w.		0	0	slightly cld'y	M. Baillaud, Director.
Tours	30.11	764.7	30.28	769.2	71.6	22	66	nw.			1		5	nw.	nw.	0.004	0.1	cloudy	M. de Tastes.
Versailles, Observatory	29.72	755.0	30.22	767.5	72.0	22.2	62	w.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.93	760.3	30.22	767.7	74.1	23.4	58	w.			2		6		wnw.	Inap.	Inap.		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.65	727.8	30.08	764.0	63.7	17.6	86	sw.			2		10	sw.		0.657	16.7	raining	Prof. Jnedt.
Bamberg	29.21	741.8	30.06	763.5	65.7	18.7	73	w.			2	0	8 ks			0.295	7.5	raining	Prof. Dr. Roh.
Berlin	29.73	755.1	29.90	759.5	68.4	20.2	69	w.			2		10			0.031	0.8		Prof. Dr. Arndt.
Breslau	29.48	748.7	30.01	762.2	68.7	20.4	56	sw.			2		9			0	0		Royal University Obs'y.
Carlsruhe	29.09	754.0	30.12	765.0	66.2	19.0	89	sw.			4		10	sw.		0.374	9.5		Albert Senz.
Cassel	29.26	743.3	29.98	761.4	69.4	20.8	76	w.			4		8	nw.		0.083	2.1		Dr. H. Möhl.
Frankfort-on-the-Main	29.70	754.3	30.05	763.3	69.3	20.7	85	wsw.			1		10			0.177	4.5		Physical Society.
Friedrichshafen	28.76	730.5	30.17	766.4	64.8	18.2	85	sw.			2		10	w.		0.421	10.7		Wilhelm, Chief Tel.
Hamburg	29.76	755.8	29.85	758.2	63.0	17.2	94	sw.			3		10			0.008	0.2	light rain	E. Preller.
Kiel	29.78	756.4	29.86	756.8	62.6	17.0	92	sw.			2		10			0.012	0.3		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.56	750.9	29.97	761.3	66.6	19.2	82	w.			3		9	w.		0.319	8.1		H. Leppig, Asst.
Magdeburg	29.73	755.2	29.92	759.9	64.9	18.3	91	wsw.			3		10 ks		w.	0.118	3.0		Dr. Assmann.
Memel	29.87	758.7	29.92	759.9	62.8	17.1	75	sw.			6		10 s						Issermann.
Munich	28.83	719.6	30.21	767.2	60.1	15.6	99	w.			2		10	w.		0.827	21.0	light rain	Dr. C. Lang.
Neufahrwasser	29.90	759.5	29.92	759.9	67.3	19.6	59	sw.			3		9			0.035	0.0		A. Lothes.
Neustadt, Palatinate	29.53	759.0	30.06	763.4	68.5	20.3	83	w.			3		6	w.		0.157	4.0		Dicknether.
Stuttgart	29.17	741.0	30.04	763.1	68.0	20.0	83	w.			6		10			0.028	0.7		Prof. Dr. Schoder.
Wustrow	29.83	757.6	29.85	758.3	64.4	18.0	77	sw.			4		10			0.394	10.0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.47	748.5	29.83	757.7	90.3	32.4		ne.			2.0	c	4 k			0	0		Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.58	751.4	29.64	752.7	84.0	28.9	82	w.	20.0	8.9			8		wnw.	0.79	20.1	gloomy	
Deesa	29.09	739.0	29.56	750.8	83.1	28.4	81	wsw.	6.0	2.7			8	w.		0.10	2.5	threatening	
Bombay	29.64	752.7	29.67	753.7	80.6	27.0	79	w.	18.0	8.0			10		wnw.	0.20	5.1	overcast	
Poona, Yarrowda	27.81	706.4	29.67	753.5	75.6	24.2	78	wsw.	32.0	14.3			10		w.	0	0	overcast	
Trichinopoly	29.46	748.4	29.74	755.4	88.8	31.6	41	w.	5.0	2.2			10			0	0	overcast	
Bellary	28.18	715.8	29.62	752.2	89.5	31.9	41	w.	16.0	7.2			3			0	0	gloomy	
Belgaum	27.20	691.0	29.77	756.1	68.4	20.2	94	wsw.	11.0	4.9			9		sw.	0.14	3.6	showery	
Lahore	28.80	731.6	29.52	749.9	92.1	33.4	62	w.	2.0	0.9			1			0.05	1.3	blue sky	
Roorkee	28.63	727.2	29.50	749.3	91.4	33.0	68	nw.	0.9	0.4			4			0	0		
Agra	28.95	735.4	29.50	749.3	92.2	33.4	64	ne.	4.0	1.8			2		e.	0.05	1.3	d. clouds	
Nagpur	28.47	723.2	29.49	749.1	85.7	29.8	68	s.	4.0	1.8			6		w.	0.02	0.5	d. clouds	
Jubbulpore	28.16	715.4	29.50	749.4	79.8	26.6	91	n.	2.0	0.9			9		n.	2.09	53.1	overcast	
Lucknow	29.14	740.2	29.50	749.4	94.5	34.7	50	ese.	3.6	1.6			0			0	0	blue sky	
Allahabad	29.17	740.9	29.47	748.6	90.7	32.6	67	e.	4.0	1.8			0			0	0	blue sky	
Patna	29.36	745.8	29.54	750.4	90.2	32.3	63	e.	7.5	3.4			4	e.	e.	0	0	d. clouds	
Hazaribagh	27.65	702.2	29.62	752.4	83.6	28.7	75	sse.	18.1	3.6			9		e.	0.45	11.4	showery	
Cuttack	29.46	748.3	29.54	750.3	84.0	28.9	86	s.	4.0	1.8			10					showery	
Calcutta, Alipore	29.53	750.0	29.55	750.5	83.2	28.4	91	se.	4.0	1.8			5			0.15	3.8	d. clouds	
Dhubri	29.41	747.0	29.53	750.0	89.1	31.7	69	calm	0	0			9	ese.		0	0	d. clouds	
Chittagong	29.50	749.2	29.58	751.4	83.7	28.7	81	sw.	3.9	1.7			5			0	0	blue sky	
Sibsagar	29.19	741.5	29.52	749.7	90.8	32.7	67	sw.	1.3	0.6			6	e.	e.	0	0	d. clouds	
Jeypore	28.13	714.5	29.54	750.3	87.8	31.0	63	ne.	3.8	1.7			8		ne.	0	0	d. clouds	
Zanzibar, Africa	30.04	763.0			80.1	26.7	61	sse.	6.3	2.8			8		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.65	753.2	30.05	763.2	78.8	26.0	43	e.	1.3	0.6			3			0	0		Prof. Giovanni Clodig.
Milan	29.54	750.3	30.03	762.8	82.4	28.0	44	ese.	3.8	1.7			6	ne.		0	0		Prof. Schiaparelli.
Padua	29.93	760.1	30.03	762.8	81.3	27.4	44	w.	0.7	0.3			0	nne.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.15	740.5	30.02	762.5	82.4	28.0	40	ssw.	3.8	1.7			8	se.		0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Genoa	29.85	758.2	30.04	762.9	77.9	25.5	61	sw.	3.1	1.4			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.17	715.6	30.00	762.0	80.2	26.8	31	nw.			2		2			0	0		Prof. D. C. Bruno
Pesaro	29.98	761.4	30.02	762.6	76.8	24.9	56	ne.	10.5	4.7			1			0	0		Prof. Luigi Guidi.
Florence	29.74	755.5	29.99	761.7	84.7	29.3	34	nw.			2		5			0	0		Prof. Costantino Pitt er
Leghorn	29.89	759.3	29.98	761.4	75.7	24.3	68	w.	1.3	0.6			10			0	0		Prof. P. Monte.
Rome	29.80	757.0	29.97	761.2	87.8	31.0	27	wsw.	0	0			1			0	0		Prof. P. Tachini.
Lecce	29.69	754.0	29.93	760.1	79.2	26.2	43	ene.	20.6	9.2			4			0	0		Prof. C. de Giorgi
Cosenza	29.12	739.6	29.97	761.2	83.5	28.6	72	wnw.	3.1	1.4			3	w.		0	0		Prof. D. Conti.
Cagliari	29.80	756.8	29.98	761.5	88.0	31.1	23	nw.			4		2			0	0		Prof. A. Pacinotti.
Palermo	29.78	756.3	30.02	762.4	80.6	27.0	49	wnw.	18.1	8.1			1			0	0		Prof. G. Ciacciatore.
Syracuse	29.89	759.3	29.94	760.4	81.9	27.7	62	ne.	15.4	6.9			8	wnw.		0	0		Prof. Vincenzo Guiliano.
Sub-series.																			
Naples, S. R	29.48	748.9	30.02	762.5	83.7	28.7	45	s.	0	0			5	ene.		0	0		Prof. T. Brioschi.
Stelvio	22.38	568.5			47.1	8.4	77	ne.			2		10			0.055	1.4	misty	Prof. P. F. Denza.
Valdobbia	22.44	570.1			56.8	13.8	65	n.			2		0			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.88	758.9	29.91	759.7	73.1	22.8	89	nw.	1.2	0.5		0	1 ck			0	0	clear	K. Ogawa.
Hakodate	29.89	759.2	29.91	759.7	67.6	19.8	93	ene.	1.2	0.5			6			0	0	fair	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.73	755.1	29.90	759.4	78.6	25.9	73	ese.	6.4	2.9			10ck;s			0	0	cloudy	M. Fojima.
Nagasaki, I. M. Obs'y	29.52	749.8	29.71	754.7	78.5	25.8	83	se.	7.2	3.2		0	0 s			0	0	cloudy	
Nemuro	29.90	759.4	29.96	761.0	69.0	20.6	93	ssw.	18.0	8.0		0	2		n.	0	0	clear	
Niigata	29.85	758.2	29.88	758.9	82.4	28.0	62	nnw.	2.0	1.2		0	2 cks			0	0	fair	M. Morita.
Nobiru	29.93	760.3	29.95	760.7	74.7	23.7	89	s.	23.6	10.5		0	0			0	0		H. Midzushina.
Osaka	29.80	758.4	29.87	758.7	77.2	25.1	90	ne.	3.9	1.7			10ks;ck			0.745	18.9	cloudy	
Supporo					73.5	23.1	68	s.	18.0	8.0			10			0.340	8.6	covered	
Tokei Obs'y, Yeddo	29.94	760.5	30.02	762.4	77.0	25.3	88	ssw.	10.2	4.6		5 c;ck	0	sse.		0	0	fair	The Staff.
Wakayama	29.84	757.9	29.89	759.2	76.6	24.8	91	calm	0	0			10			0.198	5.0	rainy	Y. Kuwamuea.
MAURITIUS																			
Mauritius Observatory	29.99	761.7	30.18	766.6	72.0	22.2	68	ese.	14.5	6.5		0	4 k;ks		s.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.75	603.3	29.97	761.3	58.8	14.9	83	nne.	0	0		2 c	0			0.112	2.9	clear	Prof. Vicente Fernandez.
Leon	24.30	618.7	30.01	762.2	60.3	15.7	88	wnw.			1	5 c	1 k	ne.		0.058	1.5	½ cloudy	Prof. M. Leal.
Mazatlan	29.73	755.2	29.99	761.7	78.0	25.6	93	e.	5.3	2.3			10 n		ne.	0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.5	30.21	767.4	52.3	11.3	88	nw.	0.7	0.3		2 c	2 ks			0	0	fine	The Staff.
Morelia	24.22	615.2	30.27	768.8	61.2	16.2	63	se.			1	2	0	se.		0	0	clear	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.04	610.5	29.99	761.0	62.6	17.0	82	wsw.			1	1 cs	0			0	0	clear	M. V. de Leon, M. E
Puebla, Catholic Institute	23.40	590.0	30.24	768.0	51.8	11.0	89	n.	0.2	0.1		0	8			0	0	cloudy	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D.
Zacatecas	22.54	572.5	30.07?	759.2?	59.8?	13.0?	79	e.	7.5	3.4		6 ck	0	e.		0	0	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.05	763.3	30.05	763.3	68.5	20.3		wsw.			4					0.228	5.8		
Groningen	29.85	758.1	29.90	759.5	64.8	18.2		wnw.			4					0.079	2.0		
Helder	29.91	759.7	29.91	759.7	65.1	18.4		sw.			4					0.024	0.6		
Hellevoetsluis	30.00	762.1	30.00	762.1	69.3	20.7	75	wsw.			4					0.083	2.1		
Utrecht	29.94	760.4	29.98	761.6	72.9	22.7	71	wsw.			4		5			0.118	3.0	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.30	744.1	29.36	745.7	59.0	15.0	70	s.	20	9			10			0.874	22.2		
Brono	29.50	749.4	29.54	750.4	66.4	19.1	49	ne.	9	4			2			0	0		
Christiania	29.43	747.5	29.57	751.1	65.1	18.4	62	ssw.	11	5			10			0	0		
Glæsvær	29.80	756.9	29.82	757.5	59.4	15.2		nne.			3		10						
Lodingen	29.64	752.8	29.69	754.0	59.9	15.5	57	ne			3		3			0.004	0.1		
PORTUGUESE.																			
Angra, Azores					71.1	21.7	73	se.	9.8	4.4			5			0	0		Dr. J. A. Sampaio
Campo Major	28.97	735.8	29.89	759.1	99.9	37.7	24	w.	0.7	0.3			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderla	30.08	764.0	30.17	766.2	75.6	24.2	67	se.	4.3	1.9			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.83	757.7	30.17	766.4	86.9	30.5	29	ene.	6.9	3.1			1			0	0		The Staff.
Ponta Delgada, Azores	30.21	767.4	30.28	769.2	70.9	21.6	69	ene.	6.9	3.1			3			0	0		
Saint Paul de Loando	29.86	758.4	30.06	763.6	67.8	19.9	82	nnw.			1		0			0	0		
Serra da Estrella	25.62	650.7	30.10	764.5	79.3	26.3	22	ese.	12.5	5.6			0			0	0		
RUSSIAN.																			
Akmolinski	28.78	730.9	29.81	757.2	68.4	20.2	43	nnw.	11	5		7 ck	0			0	0		Major K. Lasarew.
Archangel	29.98	761.6	30.00	762.1	79.0	26.1	41	s.	9	4		0	0			0	0		Capt. Sselliwerstow.
Astrakhan	30.03	762.8	29.95	760.7	85.6	29.8	26	nnw.	2	1		0	0			0	0		Capt. Wisganow.
Barnaul	29.46	748.2	29.93	760.1	80.4	26.9	50	ne.	4	2			1			0	0		Meteorological Obs'y.
Dorpat	29.64	752.9	29.87	758.8	70.5	21.4	52	s.	9	4		0	4 k			0	0		Observatory.
Ekaterinburg	29.07	738.4	30.01	762.3	64.2	17.9	55	n.	11	5		9 ck	0			0.177	4.5		Meteorological Obs'y.
Irkutsk																			
Kasan	29.85	758.2	30.11	764.7	79.0	26.1	47	calm	0	0		0	1			0	0		Observatory.
Kertch	29.70	755.9	29.78	756.4	89.8	32.1	58	sse.	4	2		2 cs	0			0	0		Lagorio & Sastyrez.
Kieff	29.34	745.3	29.95	760.7	73.8	23.2	44	n.	4	2		c;cs	4 k;ks						Observatory.
Lugan	29.70	754.4	29.89	759.2	93.6	34.2	17	ene.	18	8			3			0	0		Meteorological Obs'y.
Moscow	29.48	748.7	29.91	759.8	83.7	28.7	33	s.	13	6		0	8 ks						Meteorological Obs'y.
Nikolaiev	29.81	757.2	29.88	759.0	87.8	31.0	45	n.	4	2		0	6 ks;n			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.57	751.1	29.71	751.7	78.1	25.6	46	calm	0	0		0	0			0	0		Physical Observatory.
St. Petersburg	29.85	758.3	29.87	758.7	72.3	22.4	56	sse.	11	5			10 kn			0.043	1.1		Central Physical Obs'y.
Semipalatinsk	29.21	742.0	29.82	757.4	86.7	30.4	34	ne.	9	4			0			0	0		Major Lasarew
Tashkend, Laboratory	28.24	717.4	29.70	754.3	90.5	32.5	40	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.51	724.1	29.83	757.7	90.9	32.7	24	s.	4	2			9 ks			0	0		Physical Observatory.
Vladivostock	29.72	755.0	29.70	750.7	68.7	20.4	93	se.	9	4		0	8 kn						
Warsaw	29.56	750.9	29.97	761.3	68.9	20.5	58	ssw.	4	2		0	5 k						Astronomical Obs'y.
Wilna	29.58	751.2	29.98	761.5	69.1	20.6	55	ssw.	7	3			4			0	0		Berg, Assistant.
Yeniseisk	29.97	761.1	30.24	768.2	66.9	19.4	90	wnw.	4	2			2			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.74	755.4	58	14.4	93	wnw.			7		10			0.3	8.	overcast	J. Youngclause.
North Unst			29.36	745.7				w.			4		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.99	761.7	30.09	764.3	83.3	28.5	54	sw.	2.7	1.2		0	1			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.27	768.9	30.33	770.4	83.5	28.6	49	nw.	2.5	1.1		2	0	e.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.35	694.8	30.18	766.6	77.0	25.0	35	ne.	8.5	3.8		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	28.00	711.3	30.09	764.3	91.8	33.2	31	n.	2.7	1.2		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	30.02	762.0	30.15	765.9	92.3	33.5	49	sw.	1.6	0.7		0	0			0	0	clear	Olayo Diaz, Director
Oviedo	29.51	749.6	30.36	771.2	66.2	19.0	82	nw.	5.1	2.3		0	6 n			0	0	fair	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.27	743.5	30.13	765.2	85.3	29.6	46	ne.	8.1	3.6		0	0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.01	762.2	30.08	763.9	80.2	26.8	84	se.	1.3	0.6		8 c;cs	1 s	n.		0	0	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.72	754.8	29.78	756.3	79.8	26.6	81	sw.	30.3	16.2		0	4 ks		sw.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.06	763.6	30.16	766.0	94.6	34.8	21	ese.	7.5	3.4		0	4		ese.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.4	30.11	764.7	78.8	26.0	94					3 cs	6 k	sw.	sw.	0	0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.52	749.8	29.65	753.1	82.0	27.8	87	se.	2.7	1.2		2 cs	8 ks		ssw.	0.03	0.8		José L. Yrastorza.
SWEDISH																			
Haparanda	29.75	755.6	29.79	756.6	60.4	15.8	96	s.			4		10			0	0		
Umea	29.69	754.1	29.74	755.4	66.2	19.0	68	sw.			2		7			0.102	2.6		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec.	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Swedish—Continued.																			
Hernosand	29.61	752.2	29.67	753.5	67.1	19.5	68	se.			6		6			0.043	1.1		
Stockholm	29.44	747.7	29.61	752.2	63.9	17.7	70	e.			6		10			0.079	2.0		
Wisby	29.58	751.4	29.64	752.9	65.8	18.8	71	w.			6		3			0.004	0.1		
Sub-series.																			
Upsala	29.52	749.8	29.61	752.0	67.1	19.5	66	sse.	6.7	3.0			9		ese.	0.028	0.7		S. G. Fineman.
Swiss.																			
Geneva	28.82	732.0	30.18	766.6	76.5	24.7	54	nne.			2		5			0	0	cloudy	The Observatory
Turkish.																			
Constantinople			29.86	758.4	83.3	28.5	66	ne.	22	10.0			7		n.	0	0		The Observatory.
Valona			30.04	763.1	81.5	27.5		w.			1		5			0	0	cloudy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.75	755.6	85.8	29.9	65	nw.			1	0	0			0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	30.12	765.0	30.20	767.1	69.5	20.8	73	s.	1	0.4		10 cs	0			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.40	746.7	30.04	763.0	62	16.7	100	e.	15	6.7			10 n		e.	0.88	22.4	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.13	638.3	29.85	758.2	58	14.4	83	e.	5	2.2		0	6 s			0.02	0.5	fair	W. C. Barnes.
Assinnaboine, Ft., Montana	27.14	689.3	29.88	758.9	71	21.7	51	sw.	6	2.7		0	5 s		sw.	0	0	fair	B. O. Lenoir.
Atlanta, Georgia	28.92	734.6	30.07	763.8	70.0	21.1	94	ne.	5	2.2			10 s			0.12	3.0	cloudy	H. Hall.
Atlantic City, New Jersey	30.10	764.5	30.12	765.0	68.7	20.4	93	e.	15	6.7			10 n			0.49	12.4	heavy rain	Jas. M. Watson.
Augusta, Georgia	29.90	759.4	30.09	764.3	74	23.3	90	calm	0	0			10 s; fg			0.39	9.9	cloudy	John Healy.
Baltimore, Maryland	30.05	763.3	30.10	764.5	68	20.0	93	e.	5	2.2			10n; fog		e.	1.10	27.9	light rain	Robert Seybolt.
Barnegat, New Jersey	30.13	765.3	30.15	765.8	69.0	20.6	100	se.	5	2.2			10 n			0.19	4.8	light rain	G. A. Hill.
Bennett, Fort, Dakota	28.58	725.9	30.12	765.0	62	16.7	90	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.22	691.4	30.01	762.2	70	21.1	40	w.	4	1.8		2 c	1 s			0	0	clear	S. Wheaton.
Behring Island, Behring Sea	29.74	755.4	29.76	755.9	48.0	8.9		s.	6	2.7			fg.			0.23	5.8	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.33	719.6	30.08	764.0	60	15.6	72	e	7	3.1		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.18	766.6	30.21	767.3	69	20.6	76	sw.	2	0.9		8 cs	0			0	0	cloudy	J. T. Eiker.
Boise City, Idaho	27.28	692.9	30.03	762.7	59.3	15.2	67	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.01	762.2	30.16	766.1	65.0	18.3	78	w.	10	4.5		10 c	0	w.		0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.93	760.2	29.97	761.2	80.5	26.9	88	s.	1	0.4		0	1 ks			0	0	clear	M. McCarty.
Buffalo, New York	29.36	745.7	30.09	764.3	64.4	18.0	84	ne.	5	2.2			10 s			0.07	1.8	cloudy	Clarence Weaver.
Buford, Fort, Dakota	28.11	714.0	30.05	763.3	63	17.2	78	e.	8	3.6		4 k	0	calm		0	0	fair	A. H. Bell.
Burlington, Vermont	29.89	759.2	30.18	766.6	70.7	21.5	69	s.	5	2.2		4 cs	0	nw.		0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.62	752.3	30.01	762.2	70.2	21.2	93	sw.	5	2.2			10 s		sw.	0.27	6.9	threatening	W. H. Ray.
Campo, California	27.44	697.0	29.94	760.5	55.7	13.2	80	w.	2	0.9		0	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	30.04	763.0	30.06	763.5	76	24.4	97	s.	6	2.7			fg.			0.34	8.6	dense fog	A. K. Alderson.
Cape May, New Jersey	30.04	763.0	30.07	763.8	70.0	21.1	90	e.	17	7.6			10 n			0.82	20.8	light rain	W. E. Smith.
Cape Mendocino	29.50	749.3						se.	8	3.6		0	0			0	0	clear	J. R. Williams.
Cedar Keys, Florida	30.04	763.0	30.06	763.5	77	25.0	85	s.	18	8.0			10 n		se.	2.57	65.3	heavy rain	F. W. Mixer.
Champaign, Illinois	29.99	738.9	29.88	758.9	67.8	19.9	81	se.	5	2.2			10 s		sw.	0.03	0.8	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.00	762.0	30.05	763.3	84	28.9	74	sw.	6	2.7		9 c	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.21	741.9	30.04	763.0	70.0	21.1	90	n.	3	1.3			10 n			0.72	18.3	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.24	742.7	30.06	763.5	71.0	21.7	94	s.	3	1.3			fg.			inap.	inap.	dense fog	B. L. Goulding.
Cheyenne, Wyoming	24.22	615.2	29.92	760.0	49.6	9.8	66	nw.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.20	741.7	29.88	758.9	69.2	20.7	89	e	2	0.9			10 s			0.83	21.1	cloudy	J. Mitchell.
Chincoteague, Virginia	30.03	762.7	30.05	763.3	71	21.7	100	se.	11	4.9			10 n			0.90	22.9	heavy rain	C. F. Dickens.
Cincinnati, Ohio	29.32	744.7	29.96	761.0	75	23.9	82	se.	4	1.8			10 s		se.	0.02	0.5	cloudy	J. F. Harrold.
Cleveland, Ohio	29.28	743.7	30.00	762.0	67.6	19.8	82	se.	14	6.3		1 c	9 k		se.	0.01	0.3	cloudy	J. B. Newlin.
Coleman City, Texas	28.25	717.5	29.99	761.7	73	22.8	84	sw.	2	0.9		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.13	739.9	29.96	761.0	72	22.2	90	se.	2	0.9			10 n		sw.	0.02	0.5	light rain	D. Cuthbertson.
Concho, Texas	28.13	714.5	29.99	761.7	72	22.2	82	calm	0	0		0	0			0	0	clear	W. W. McConthe.
Custer, Fort, Montana	26.83	681.5	29.89	759.2	70	21.1	55	s.	4	1.8		6 k	0	calm		0	0	fair	W. B. Lamar.
Davenport, Iowa	29.28	743.7	29.90	759.4	66	18.9	93	n.	9	4.0			10 s		calm	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.25	641.3	29.90	759.4	70	21.1	68	sw.	4	1.8		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.38	720.8	30.09	764.3	52	11.1	86	sw.	2	0.9		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.52	648.2	29.94	760.5	66	18.9	81	sw.	5	2.2		3 c	0	w.		0	0	clear	G. W. Scott.
Decatur, Texas					76	24.4	56	se.	3	1.3		0	0			inap.	inap.	clear	D. J. Carr.
Delaware Breakwater, Del.	30.06	763.5	30.08	764.0	67	19.4	100	se.	22	9.8			10 n		se.	0.61	15.5	heavy rain	T. S. Townsend.
Denison, Texas	29.22	742.2	30.00	762.0	76.3	24.6	85	sw.	6	2.7		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.90	632.4	29.92	760.0	64.0	17.8	45	s.	4	1.8		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.13	739.9	30.01	762.2	63	17.2	90	n.	6	2.7			10 s		n.	0.02	0.5	cloudy	F. W. Conrad.
Detroit, Michigan	29.27	743.4	29.96	761.0	70.3	21.3	90	e.	8	3.6			10 s		se.	0.14	3.6	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.46	697.5	29.94	760.5	69	20.6	81	ne.	18	8.0			10 s		ne.	0	0	cloudy	W. M. Mattingly.
Dubuque, Iowa	29.24	742.7	29.93	760.2	66.8	19.3	84	nw.	4	1.8			10 s		nw.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.38	746.2	30.10	764.5	60	15.6	75	sw.	4	1.8		0	2 s			0.07	1.8	clear	N. B. Conger.
Eagle Pass, Texas	29.24	742.7	30.02	762.5	78.0	25.6	76	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.44	646.2	29.99	761.7	53	11.7	64	sw.	2	0.9		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.97	761.2	30.04	763.0	68.0	20.0	73	w.	4	1.8		4 k	hz.	n.		0	0	fair	D. C. Murphy.
Elliott, Fort, Texas	27.28	692.9	29.92	760.0	65	18.3	70	ne.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.30	668.0	29.90	759.4	68	20.0	57	ne	2	0.9		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.32	744.7	30.03	762.7	67	19.4	84	s.	16	7.2			10 s		s.	0.10	2.5	cloudy	Peter Wood.
Escanaba, Michigan	29.36	745.7	30.00	762.0	64	17.8	97	ne.	13	5.8			10 n		ne.	0.76	19.3	light rain	George Heathcote.
Fredericksburg, Texas	28.33	719.6	30.04	763.0	76	24.4	82	calm	0	0		0	0			0	0	clear	Frank Halwegler.
Galveston, Texas	29.98	761.5	30.03	762.7	81	27.2	88	w.	7	3.1		2 c	3 k	s.	se.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.26	743.2	29.91	759.7	67.5	19.7	90	ne.	4	1.8			10 s		e.	0	0	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.31	642.9	29.88	758.9	65.9	18.8	65	e.	2	0.9		1 k	6 s			0.02	0.5	fair	Robert C. Lord.
Hatteras, North Carolina	30.05	763.3	30.07	763.8	79	26.1	91	s.	6	2.7		6 ck	3 ks	sw.		0	0	cloudy	R. M. Crawford.
Helena, Montana	25.86	656.8	29.95	760.7	70	21.1	34	sw.	10	4.5		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.05	737.9	30.05	763.3	79.0	26.1	82	s.	3	1.3		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.76	730.5	30.10	764.5	56.6	13.7	80	ne.	6	2.7		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.16	740.7	29.93	760.2	70	21.1	93	sw.	4	1.8			10 n		sw.	1.34	34.0	light rain	O. Schutze
Indianola, Texas	29.99	761.7	30.02	762.5	81.2	27.3	88	s.	3	1.3		1 cs	2 ks	nw.	s.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.88	733.5	30.00	762.0	75	23.9	90	sw.	2	0.9		1 k	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.03	762.7	30.07	763.8	80	26.7	79	sw.	10	4.5		1 cs	0			inap.	inap.	clear	J. W. Smith.
Keogh, Fort, Montana	27.50	698.5	29.92	760.0	70	21.1	81	se.	3	1.3		6 c	0	se.		0	0	fair	A. Schneider.
Keokuk, Iowa	29.26	743.2	29.89	759.2	69.0	20.6	84	nw.	5	2.2		1 k	c	nw.		1.95	49.5	clear	F. Z. Gosewisch.
Key West, Florida	30.04	763.0	30.06	763.5	83.5	28.6	80	se.	7	3.1		10 cs	0			0.14	3.6	cloudy	R. H. Paxton.
Kittyhawk, North Carolina	30.07	763.8	30.09	764.3	77	25.0	90	w.	7	3.1			10 ks		w.	0.26	6.6	cloudy	E. A. Beals.
Knoxville, Tennessee	29.04	737.6	30.05	763.3	70	21.1	96	calm	0	0			10 s			0.98	24.9	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.20	741.7	29.95	760.7	66	18.9	87	nw.	3	1.3			10 s			0.10	2.5	cloudy	S. C. Emery
La Mesilla, New Mexico	26.18	665.0	29.90	759.4	66.2	19.0	61	calm	0	0		0	1 s			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.13	739.9	29.99	761.7	68	20.0	78	n.	6	2.7		0	0			0.20	5.1	clear	A. W. Browne.
Lewiston, Idaho	29.26	743.2	30.07	763.8	66.5	19.2	57	s.	2	0.9		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.70	754.4	30.01	762.2	76	24.4	97	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.64	752.8	30.03	762.7	61.2	16.2	78	ne.	4	1.8		0	0			0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.40	746.7	29.94	760.5	73	22.8	82	s.	4	1.8			10 s			0.16	4.1	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.37	746.0	30.04	763.0	68.2	20.1	84	calm	0	0			10 ks			0.72	18.3	cloudy	Lewis Duane.
Macon, Fort, North Carolina	30.06	763.5	30.07	763.8	77	25.0	90	w.	4	1.8		0	9 ks		se.	0.29	7.4	cloudy	F. P. Chaffee.
Madison, Wisconsin	28.95	735.3	29.93	760.2	64	17.8	93	n.	6	2.7			10 s		n.	1.20	30.5	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.63	651.0			81	27.2	20	se.	20	8.9			10 s		sw.	0	0	cloudy	H. W. Dodge.
McKavett, Fort, Texas	27.81	706.4	30.02	762.5	73	22.8	68	s.	2	0.9		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.35	745.5	30.06	763.5	58	14.4	93	ne.	10	4.5			10 n			0.17	4.3	heavy rain	J. Gilligan.
Memphis, Tennessee	29.71	754.6	30.05	763.3	76	24.4	100	s.	4	1.8			10 s			0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.18	741.2	29.91	759.7	64	17.8	93	n.	12	5.4			10 s; fg			0.02	0.5	cloudy	W. Line.

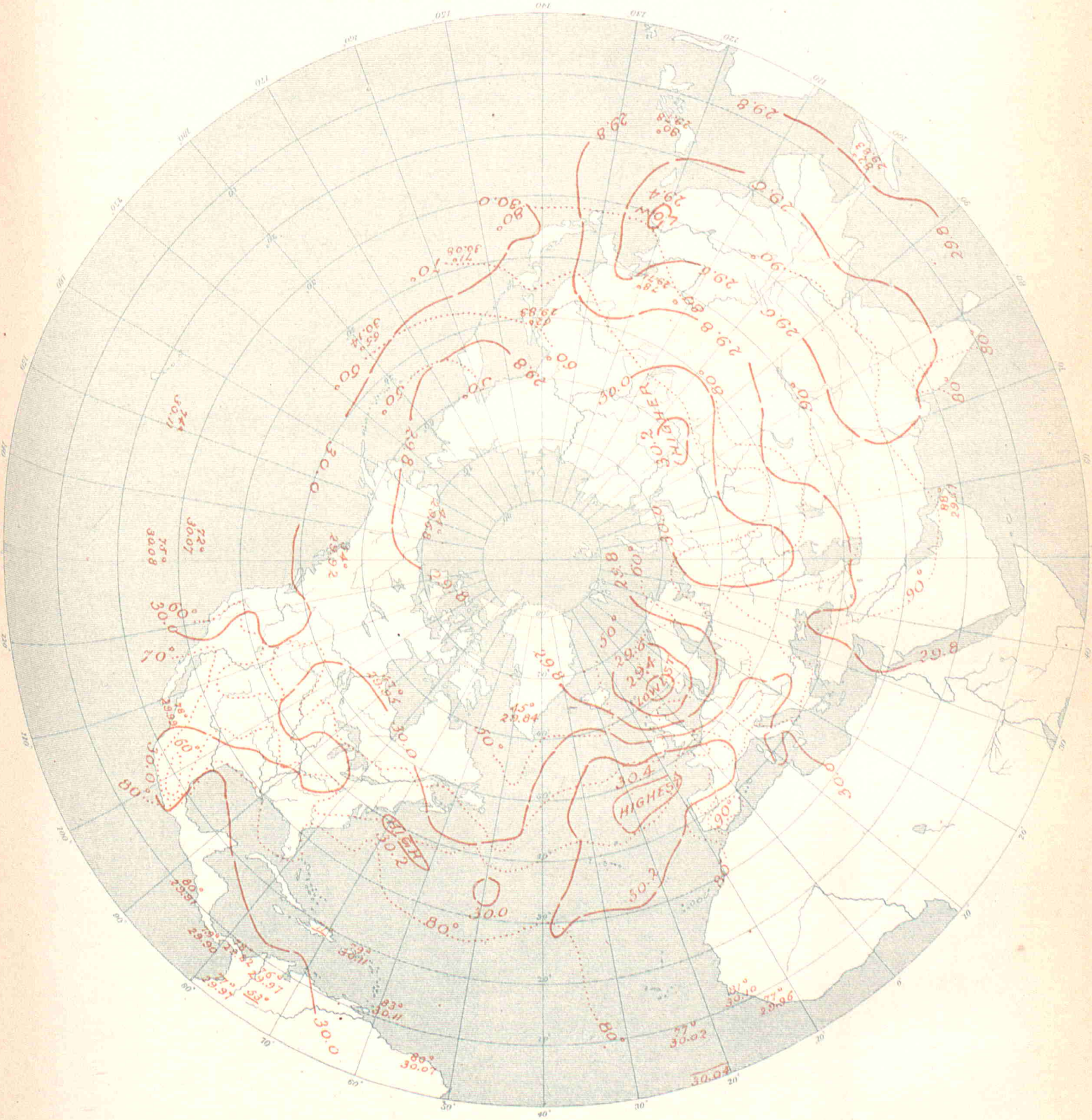
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.80	680.7	30.02	762.5	57	13.9	77	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.02	762.5	30.06	763.5	74	23.3	97	n.	3	1.3	.....	6 cs	2 ks	nw.	.....	0.03	0.8	cloudy	C. A. Read.
Montgomery, Alabama	29.83	757.7	30.06	763.5	72	22.2	97	n.	3	1.3	.....	.....	10 s	.....	n.	0.22	5.6	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.17	740.9	30.14	765.5	62	16.7	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.06	738.1	30.06	763.5	68.5	20.3	78	se.	8	3.6	.....	2 cs	1 s	.....	.....	0.18	4.6	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.08	611.6	30.16	766.1	47.0	8.3	80	n.	12	5.4	.....	6 cs	1 s	n.	n.	0	0	fair	J. G. Linsley.
Nashville, Tennessee	29.43	747.5	29.99	761.7	76.0	24.4	82	w.	4	1.8	.....	3 cs	2 ks	w	w.	inap.	inap.	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.09	764.3	30.20	767.1	63	17.2	84	se.	2	0.9	.....	10 cs	sk.	.....	.....	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.16	766.1	30.21	767.3	70	21.1	76	calm	0	0	.....	9 k	0	.....	.....	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.03	762.7	80.5	26.9	83	calm	0	0	.....	1 c	sk.	.....	.....	0.08	2.0	clear	L. Dunne.
Newport, Rhode Island	30.16	766.1	30.21	767.3	66.9	19.4	73	s.	2	0.9	.....	3 ck	4 ks	n.	.....	0	0	fair	W. McGillivray.
New York, New York	30.02	762.5	30.19	766.8	66	18.9	78	ne.	11	4.9	.....	.....	10 n	.....	e.	inap.	inap.	light rain	J. B. Merrill.
Norfolk, Virginia	30.03	762.7	30.06	763.5	75	23.9	100	se.	4	1.8	.....	.....	10 s	.....	.....	0.21	5.3	cloudy	Wm. Davis.
North Platte, Nebraska	27.24	691.9	30.04	763.0	66.6	19.2	82	e.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	E. F. Brady.
Olympia, Washington T'y	30.06	763.5	30.10	764.5	50.5	10.3	90	calm	0	0	.....	9 ck	0	sw.	.....	0.35	8.9	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.66	753.4	29.68	753.9	44.0	6.7	100	e.	8	3.6	.....	.....	10 s	.....	.....	0.02	0.5	cloudy	P. H. Ray.
Omaha, Nebraska	28.92	734.6	30.06	763.5	63.0	17.2	93	n.	4	1.8	.....	.....	10 s	.....	n.	0	0	cloudy	A. Pollak.
Oswego, New York	29.85	758.2	30.17	766.3	72.0	22.2	66	s.	3	1.3	.....	.....	10 n	.....	s.	0.02	0.5	light rain	S. W. Beall.
Palestine, Texas	29.51	749.5	30.05	763.3	76.0	24.4	90	e.	3	1.3	.....	0	0	.....	.....	0.54	13.7	clear	L. M. Pindell.
Pensacola, Florida	30.02	762.5	30.05	763.3	75.1	23.9	97	n.	5	2.2	.....	1 c	5 s	.....	.....	0	0	fair	M. McGauran.
Philadelphia, Pa	30.06	763.5	30.16	766.1	67	19.4	93	e.	3	1.3	.....	.....	10n; fg	.....	e.	0.51	13.0	light rain	T. F. Townsend.
Pike's Peak, Colorado	18.18	461.8	29.98	761.5	39	3.9	59	sw.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	L. M. Dey.
Pioche, Nevada	24.22	615.2	29.92	760.0	60.5	15.8	60	s.	2	0.9	.....	0	0	.....	.....	0.14	3.6	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.24	742.7	30.03	762.7	67.5	19.7	82	e.	3	1.3	.....	.....	10 s	.....	s.	0.38	9.7	cloudy	J. B. Turton.
Poplar River, Montana	27.93	709.4	.....	.....	.....	.....	.....	s.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.03	762.7	30.04	763.0	79.7	26.5	91	e.	1	0.4	.....	0	3 k	.....	e.	0	0	clear	M. Hermann.
Port Huron, Michigan	29.33	745.0	29.99	761.7	65.5	18.6	93	se	8	3.6	.....	.....	10 s	.....	.....	1.23	31.2	cloudy	W. O. Bailey.
Portland, Maine	30.06	763.5	30.11	764.8	71.5	21.9	73	nw.	5	2.2	.....	5 c	0	nw.	.....	0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.00	762.0	30.07	763.8	53.0	11.7	90	calm	0	0	.....	5 c	0	.....	.....	0.02	0.5	fair	M. L. Hearne.
Prescott, Arizona	24.92	633.0	29.90	759.4	61	16.1	90	s.	5	2.2	.....	.....	10 s	.....	s.	0.35	8.9	cloudy	J. Mc N. Wright.
Provincetown, Mass	30.15	765.8	30.18	766.6	68	20.0	73	sw.	10	4.5	.....	4 cs	2 s	sw.	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.05	763.3	30.06	763.5	76.5	24.7	88	se.	12	5.4	.....	0	9 s	.....	calm	0.60	15.2	cloudy	W. J. Evans.
Red Bluff, California	29.67	753.6	30.03	762.7	65.0	18.3	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.79	756.7	30.03	762.7	80	26.7	74	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Rochester, New York	29.48	748.8	30.13	765.3	59	15.0	100	se.	12	5.4	.....	.....	10n; fg	.....	.....	0.34	8.6	light rain	E. W. McGann.
Roseburg, Oregon	29.52	749.8	30.06	763.5	49	9.4	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.98	761.5	30.05	763.3	61.0	16.1	78	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.36	745.7	29.94	760.5	69.9	21.1	92	w.	4	1.8	.....	.....	10 s	.....	w.	0.09	2.3	cloudy	J. H. Webber.
St. Paul, Minnesota	29.16	740.7	30.00	762.0	60.0	15.6	87	n.	12	5.4	.....	1 cs	0	.....	.....	0.09	2.3	clear	P. F. Lyons.
St. Vincent, Minnesota	29.30	744.2	30.15	765.8	59	15.0	93	e.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.77	654.5	29.96	761.0	64	17.8	54	calm	0	0	.....	0	0	.....	.....	0.04	1.0	clear	J. Craig.
San Antonio, Texas	29.35	745.5	30.04	763.0	77.8	25.4	88	calm	0	0	.....	2 k	5 ks	calm	s.	0	0	fair	T. J. Kenan.
San Diego, California	29.91	759.7	29.98	761.5	62.7	17.1	91	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.29	744.0	29.95	760.7	72	22.2	90	sw.	9	4.0	.....	.....	10 n	.....	.....	0.05	1.3	thund'r st'm	M. H. Perry.
Sandy Hook, New Jersey	30.15	765.8	30.18	766.6	71.5	21.9	82	e.	15	6.7	.....	.....	10 n	.....	e.	0.05	1.3	light rain	B. A. Blundon.
San Francisco, California	30.04	763.0	30.11	764.8	57	13.9	93	sw.	3	1.3	.....	.....	fg.	.....	w.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.44	595.4	29.93	760.2	60	15.6	44	ne.	6	2.7	.....	0	0	.....	.....	0.01	0.3	clear	H. U. Jones.
Savannah, Georgia	29.97	761.2	30.05	763.5	83.5	28.6	74	sw.	4	1.8	.....	4 c	0	.....	.....	inap.	inap.	fair	H. W. Ford.
Shaw, Fort, Montana	26.45	671.8	29.98	761.5	56	13.3	64	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.79	756.7	30.02	762.5	75	23.9	90	sw.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.78	731.0	29.96	761.0	76.8	24.9	77	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Silver City, New Mexico	24.42	620.3	29.88	758.9	60	15.6	58	calm	0	0	.....	0	2 k	.....	calm	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.86	758.4	29.92	760.0	53.5	11.9	90	calm	0	0	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	J. J. McLean.
Smith, Fort, Arkansas	29.53	750.0	29.99	761.7	71.8	23.8	85	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.02	762.5	30.06	763.5	78	25.6	88	sw.	3	1.3	.....	8 cs	1 ks	.....	sw.	0.26	6.6	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.09	713.5	30.09	764.3	55	12.8	80	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.24	742.7	29.90	759.4	69	20.6	87	w	4	1.8	.....	4 c	0 s	w.	nw.	0.98	24.9	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.07	763.8	30.20	767.1	65.2	18.4	84	s.	1	0.4	.....	10 cs	fg.	.....	.....	0	0	cloudy	T. S. Outram.
Springfield, Mo	28.57	725.7	29.96	761.0	66	18.9	90	s.	5	2.2	.....	.....	10 ks	.....	s.	0.25	6.3	cloudy	J. B. Marbury.
Starkville, Miss	29.57	751.1	30.04	763.0	76.5	24.7	85	se.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.30	718.8	30.08	764.0	58	14.4	93	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.05	687.1	29.90	761.7	70.0	21.1	71	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thomas Camp	27.26	692.4	29.88	758.9	74.5	23.6	61	w.	.....	.....	1	2 ck	4 k	s.	s.	0	0	fair	
Thatcher's Island, Mass	30.12	765.0	30.16	766.1	67.5	19.7	78	sw.	12	5.4	.....	5 c	fg.	w.	.....	0	0	fair	G. Liebmann.
Toledo, Ohio	29.28	743.7	29.95	760.7	70	21.1	90	se.	3	1.3	.....	.....	10 s	.....	se.	0.45	11.4	threatening	A. Buell.
Tucson, Arizona	27.58	700.5	29.92	760.0	78	25.6	62	s.	2	0.9	.....	0	2 ks	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.76	755.9	30.12	765.0	57	13.9	74	s.	4	1.8	.....	0	1 k	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.06	738.1	30.00	762.0	76	24.4	85	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	70.8	21.6	76	sw.	.....	.....	1	.....	10 s	.....	sw.	0.20	5.1	cloudy	D. Brooks.
Vicksburg, Mississippi	29.79	756.7	30.03	762.7	75	23.9	90	s.	4	1.8	.....	0	6 s	.....	s.	0.03	0.8	fair	James Kenealy.
Visalia, California	29.65	753.1	30.02	762.5	67	19.4	63	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washakie, Fort, Wyoming	24.61	625.1	29.95	760.7	67.0	19.4	35	nw.	6	2.7	.....	7 c; k	0	w.	.....	0	0	fair	T. M. Ambler.
Washington, D. C.	29.95	760.7	30.00	763.5	68.8	20.4	99	ne.	3	1.3	.....	.....	10n; fg	.....	.....	1.48	37.6	light rain	F. M. M. Beall.
West Las Animas, Colorado	26.12	663.4	29.87	758.7	61.9	16.6	58	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.58	751.3	30.16	766.1	62	16.7	87	e.	4	1.8	.....	.....	10 n	.....	.....	0.17	4.3	light rain	B. F. Hough.
Wilmington, N. Carolina	30.02	762.5	30.07	763.8	77	25.0	90	calm	0	0	.....	10 cs	0	.....	.....	0.24	6.1	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.73	653.5	29.96	761.0	58	14.4	32	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.83	732.3	30.10	764.5	69	20.6	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Attfield.
Yuma, Arizona	29.74	755.4	29.88	758.9	81.7	27.6	63	calm	0	0	.....	7 ck	2 s	se.	.....	0	0	cloudy	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.09	561.1	.....	.....	52.5	11.4	65	se.	7	3.1	.....	.....	10 s	.....	.....	0.43	10.9	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.10	764.5	30.11	764.8	83	28.3	83	e.	.....	.....	.....	1 k	5 ks	e.	.....	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.94	760.5	29.97	761.2	77	25.0	95	calm	0	0	.....	.....	10 ks	.....	s.	2.50	63.5	cloudy	J. I. Plume.
Havana, Cuba†	29.99	761.7	30.05	763.3	80	26.7	82	calm	0	0	.....	9 cs	0	.....	.....	c	0	cloudy	Robert Johnston.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	78.4	25.8	78	n.	1	0.4	.....	10c; cs	0	e.	.....	0	0	cloudy	S. M. Pike.
Magua, San Domingo, W. I	.....	.....	.....	.....	71	21.7	.....	calm	.....	.....	0	0	0	.....	.....	0	0		F. M. Everett.
Navassa	29.93	760.2	30.01	762.2	81	27.2	78	e.	8	3.6	.....	6 cs	2 k	e.	se.	0	0	cloudy	Chas. Hasselbrink.
Paramaribo, S. A.	30.07	763.8	30.07	763.8	80	26.7	78	se.	.....	.....	2	3 c	4 k	e.	.....	0.230	5.8		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.41	747.0	29.97	761.2	76	24.4	94	calm	.....	.....	0	.....	fg.	.....	.....	0.03	0.8	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	100	ne.	.....	.....	1	10 ks	0	ne.	.....	0.33	8.4	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		W. J. Fisher.
St. Thomas, W. I.	30.01	762.2	30.14	765.5	82	27.8	74	ne.	.....	.....	.....	0	2 ks	.....	ne.	0	0	clear	Aug. Wallon.
York Factory, B. A.	29.80	759.2	29.95	760.7	47.0	8.3	92	ne.	13	5.8	.....	3 k	2 s	ne.	ne.	0	0	cloudy	Fortescue & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, N. 9° 37′ W. 24° 34′	30.02	762.5	76.5	24.7	92	ne.			3		10							misty.
H. M. S. Alexandra, Alexandria, Egypt	29.82	757.4	79.5	26.4	88	nnw.			3–5		3	nnw.				3	nnw.	d. clouds.
H. M. S. Amethyst, S. 27° 27′, W. 48° 34′	30.42	772.7	59	15.0	84	ssw.			1		10							overcast.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.87	758.7	80	26.7		n.			4		7	n.						d. clouds.
H. M. S. Arab, Muscat Arabia	29.57	751.1	87.5	30.8	84	se.			2		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.37	771.4	58.5	14.7		se.			3–5		0							squally.
H. M. S. Champion, Hokodate, Yezo, Japan			73	22.8	95	calm			0		3	calm						d. clouds.
H. M. S. Comus, Esquimalt, Vancouver Island	29.91	759.7	57	13.9	57	nne.			1		2							d. clouds.
H. M. S. Diamond, S. 9° 02′, E. 159° 05′	29.85	758.2	81	27.2	86	calm			0		1							blue sky.
H. M. S. Dido, N. 17′, 00° W. 62° 00′	30.06	763.5	81	27.2		e.			1		3	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.10	764.5	76.5	24.7	77	ne.			4–5		3	nne.						d. clouds.
H. M. S. Druid, N. 47° 42′, W. 28° 58′	30.29	769.4	64	17.8	91	sse.			2		10					2	sse.	overcast.
H. M. S. Emerald, N. 30° 40′ W. 32° 10′	30.18	766.6	75.5	24.2	100	e.			1		2	ne.				2	ne.	d. clouds.
H. M. S. Espiegle, S. 15° 39′ E. 166° 44′	29.92	760.0	76	24.4	86	ne.			2–4		4	sw.						squally.
H. M. S. Fantome, N. 13° 46′, W. 72° 02	29.98	761.5	82	27.8		e.			4		1	e.				3	e.	blue sky.
H. M. S. Flying Fish, N. 35° 49′, E. 125° 30	29.60	751.8	79	26.1	95	e.			4		10					2	e.	overcast.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	29.99	761.7	58.5	14.7	90	se.			2		10							drizzling.
H. M. S. Griffon, N. 48° 33′, W. 58° 43′	30.02	762.5	55.5	13.1	80	se.			1		10							overcast.
H. M. S. Iron Duke, N. 49° 20′, E. 139° 25′	29.83	757.7	62	16.7	94	calm			0		6							d. clouds.
H. M. S. Lark, S. 10° 28′, E. 161° 59′	29.93	760.2	80.3	26.8	93	se.			2		5					2	se.	showery.
H. M. S. Liffey, Coquimbo, Chili	30.00	762.0	55	12.8		ne.			1		10							d. clouds.
H. M. S. Magpie, N. 35° 07′, E. 128° 40′	29.68	753.9	77.7	25.4	89	e.			2		8							misty.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.80	756.9	81.5	27.5	78	nw.			3		4							misty.
H. M. S. Northampton, Halifax, Nova Scotia	29.95	760.7	68	20.0	79	nw.			1		2	nnw.						d. clouds.
H. M. S. Orontes, N. 37° 11′, E. 7° 35′	30.16	766.1	75.5	24.2	90	wnw.			4		0					3	wnw	misty.
H. M. S. Pegasus, N. 5° 24′, E. 100° 20′	29.83	757.7	82	27.8	87	calm			0		10							showery.
H. M. S. Rambler, S. 13° 00′, W. 8° 58′	30.09	764.3	71	21.7	95	se.			4		3	ese.				4	se.	d. clouds.
H. M. S. Sappho, off Hawaii, Sandwich Island	29.99	761.7	76	24.4	76	ene.			4		4					4	ne.	d. clouds.
H. M. S. Swiftsure, S. 52° 20′, W. 69° 00′	29.90	759.4	38	3.3	100	ene.			5–6		10	nne.				7	nne.	misty.
H. M. S. Tenedos, N. 51° 10′ W. 56° 00′	29.79	756.7	56.5	13.6	87	n.			1		2							d. clouds.
H. M. S. Thetis, S. 11° 30′, W. 77° 45′	30.00	762.0	59	15.0	94	sse.			2		10					3	s.	overcast.
H. M. S. Triumph, Sandy Point, Patagonia	29.74	755.4	39	3.9	71	n.			3–4		9	n.						squally.
H. M. S. Tyne, N. 37° 20′, W. 14° 28′	30.17	766.3	70	21.1	84	wnw.			1		10					2	nne.	overcast.
H. M. S. Woodlark, Jask, Persia	29.57	751.1	92.5	33.6	64	se.			2–3		0							blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Bulama, Senegambia	30.10	764.4	80.6	27.0	89	calm			0		7			20 h'r	20 h'r			raining.
Tamega, Macao, China	29.48	748.8	84.2	29.0	71	sw.			4		9		sw.	14 h'r	14 h'r			showery.
SWEDISH NAVAL.																		
Saga, N. 59° 29′, E. 30° 00′	29.31	744.5	56.8	13.8	95	sw.			5		10							raining.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.98	761.5	76	24.4	95	ne.	4	1.8			10		ne.	0	0			cloudy.
Navy Yard, Portsmouth, N. H	30.14	765.5	68	20.0	79	nw.	2	0.9			9		nw.	0	0			fair.
Naval Hospital, Yokohama, Japan*	29.88	758.9	77	25.0	86	s.			1		0			0	0			clear.
Adams, Mare Island, Cal			64	17.8	78	sw.			1		0			0	0	sm'h		clear.
Alaska, S. 10° 41′ W. 86° 57′	29.95	760.7	63	17.2	83	sse			2		2		se.	0	0	sm'h		fair.
Alliance, Boston, Mass	30.18	766.6	64	17.8	83	wsw.			4		8			0	0	sm'h		cloudy.
Ashuelot, Yokohama, Japan*	29.91	759.7	78	25.6	91	sw.			2		2		calm					clear.
Brooklyn, Rio de Janeiro, Brazil	30.39	771.9	64	17.8	100	ese.	3	1.3			10		calm	0.40	10.2			misty.
Colorado, New York, N. Y	30.18	766.6	66	18.9	94	ne.	4	1.8			10		se.	0	0			overcast.
Constellation, New York, N. Y*	30.18	766.6	67	19.4	84	se.			2		10		se.					raining.
Essex, S. 31° 53′, W. 73° 08	29.93	760.2	56	13.3	87	nw.			6		5?		nw.			r'gh	ne.	clear ?
Franklin, Norfolk, Va	30.06	763.5	75	23.9	100	s.	4	1.8			10		wsw.	0.15	3.8			cloudy.
Galena, N. 34° 56′, W. 9° 26′	30.14	765.5	75	23.9	100	e.			1		5		e.			sm'h		fair.
Independence, Navy Yard, Mare Island, Cal	30.07	763.8	59	15.0	94	sw.			2		0			0	0			clear.
Iroquois, N. 29° 35′ W. 118° 16′	30.01	762.2	63	17.2	83	nnw.			4		10		nnw.	0	0	sm'h	nw.	cloudy.
Kearsarge, Norfolk, Va	30.06	763.5	75	23.9	100	wsw.			1		10		sw.					cloudy.
Lackawanna, Callao, Peru*	29.95	760.7	59	15.0	94	se.			2		10							misty.
Lancaster, Villafranca, France*	30.00	762.0	77	25.0	82	e.			1		5		e.	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	30.32	770.1	51	10.6	100	ne.			3		0					sm'h		clear.
Michigan, Green Bay, Wisconsin	29.90	759.4	67	19.4	95	nne.			2		10		nne.					raining.
Minnesota, Newport, R. I.	30.24	768.1	69	20.6	80	wnw.	1	0.4			10		nw.					overcast.
Monocacy, Che Foo, China	29.68	753.9	75	23.9	86	nne.			1		10		calm			sm'h	e.	cloudy.
New Hampshire, Newport, R. I.	30.26	768.6	66	18.9	79	wsw.			2		8		sw.			sm'h		fair.
Nipsic, N. 36° 56′, E. 10° 23′*	30.06	763.5	81	27.2	60	n.			4		0					sm'h		hazy.
Onward, Callao, Peru	30.13	765.3	58	14.4	100	se.			3		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.80	756.9	80	26.7	82	nne.			1		10		nne.					cloudy.
Passaic, Washington, D. C.	30.08	764.0	69	20.6	?	ne.			1		10		ne.					rainy.
Pensacola, Panama, Panama*	29.80	756.9	78	25.6	91	se.	2	0.9			10		se.	mod.	mod.	sm'h		cloudy.
Portsmouth, Genoa, Italy*	29.97	761.2	78	25.6	69	s.			1		5		w.			sm'h		fair.
Powhatan, N. 32° 50′, W. 77° 44′	30.06	763.5	82	27.8	79	sw.			4		8		sw.			long	ese.	fair.
Quinnebaug, Alexandria, Egypt	29.79	756.7	83	28.3	71	nnw.			3		8		nw.			sm'h		fair.
Ranger, Mare Island, Cal	30.10	764.5	62	16.7	77	sw.			1–2		0			0	0			clear.
Richmond, Yokohama, Japan*	29.92	760.0	78	25.6	95	sw.			1		0			0	0			clear.
Saratoga, Genoa, Italy	30.00	762.0	78	25.6	78	s.			0–1		2		s.	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.38	771.6	66	18.9	100	ne.			2		10			0.462	11.7			cloudy.
Swatara, Kobe, Japan*	29.70	754.4	82	27.8	79	ene.			1		10		e.			sm'h		cloudy.
Tennessee, N. 42° 20′, W. 70° 54′	30.21	767.3	67	19.4	74	wsw.	7	3.1			5			0	0			fair.
Vandalia, Portsmouth, N. H*	30.12	765.0	68	20.0	84	nw.			1		8		nw.					fair.
Wabash, Boston, Mass	30.18	766.6	64	17.8	78	w.	5	2.2			8		nw.	0	0			fair.
Wachusetts, Sitka, Alaska	30.18	766.6	52	11.1	100	ne.			1		10		calm	0	0	sm'h		foggy.
Wyoming, Port Royal, S. C*	30.03	762.7	79	26.1	86	ssw.	6	2.7			5		s.	0	0			fair.
Yantic, off Boston, Mass	30.18	766.6	64	17.8	83	wsw.			4		5							fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 54° 35′, W. 46° 40′*	29.88	758.9	48	8.9	93	sw.			3		10		sse.	0	0	1	s.	foggy.
S. S. Grecian, Glasgow, Scotland *	29.80	750.9	63	17.2		w.			0		10		w.					cloudy.
S. S. Waldensian, N. 44° 44′, W. 54° 41′*	29.89	759.2	65	18.3		w.			2		2		wnw.	0	0	mod.	ssw.	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Indiana, N. 41° 30′, W. 46° 18′†	30.18	766.6	74	23.3	90	w.			3		2		w.			sm'h	w.	fine.
S. S. Lord Clive, N. 39° 34′, W. 72° 15′ *†	30.09	764.3				se.			3		9		se.; sw.	0	0	sm'h		cloudy.
S. S. Lord Gough, N. 51° 52′, W. 7° 40′	30.15	765.8	70	21.1		wsw.			5		10		w.	0	0	mod.	w.	dull.
S. S. Ohio, Philadelphia, Pa.	30.08	764.0	68	20.0	?	e.			4		10		e.					rainy.
AMSTERDAM LINE.																		
S. S. Stella, N. 50° 06′, W. 30° 58′	30.34	770.7	68.0	20.0		sw.			3		10		sw.	0	0	4	sw.	heavy mist.
ANCHOR LINE.																		
S. S. Alexandria, Naples, Italy	29.98	761.5	78	25.6		nw.			3		4		nw.	0	0			fair.
S. S. Assyria, N. 43° 38′, W. 60° 52′	30.02	762.5	64	17.8		w.			5		2		w.	0	0	sm'h		clear
S. S. Devonia, N. 41° 40′, W. 52° 47′†	30.13	765.3	69	20.6		w.			2		0					sm'h		clear.
S. S. Dorian, N. 41° 52′ W. 38° 06′*	29.97	761.2	70	21.1		se.			5		3		nw.	0	0	mod.	s.	clear.
S. S. Ethiopia, New York, N. Y.	30.17	766.3	69	20.6	84	ese.			3		10		e.	8 h'r	8 h'r			raining.
S. S. Utopia, British Channel†	30.34	770.6	70	21.1	65	sw.			5		9		sw.	0	0	sli't		cloudy.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C.†	29.98	761.5	79	26.1	90	calm			0		10			1 h'r	1 h'r			dense fog.
S. S. Alene, N. 22° 40′, W. 74° 23′†	30.12	765.0				ese.			2		3		e.	0	0	sm'h		fine.
S. S. Alpin, Arecibo, Porto Rico, W. I.	30.03	762.7				sw.			1		5		e.	0	0			
S. S. Alvo, N. 19° 57′ W. 74° 13′	30.02	762.5				ne.			5		2		ne.	0	0	sm'h		clear.
S. S. Antillas, N. 34° 30′, W. 71° 40′			78	25.6		s.			1				s.	0	0	sm'h		clear.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 39° 28′, W. 6° 28′	30.27	768.8	56	13.3	?	nnw.			5		6							blue sky
S. Baroda, S. 10° 19′. W. 7° 22′	30.13	765.3	70.1	21.2	79	sse.			5		3							d. clouds.
Bk. Caldew, S. 33° 26′, W. 21° 56′	29.99	761.7	61	16.1	82	ne.			5		3							d. clouds.
Bk. Commewyne, N. 38° 30′, W. 46° 27′	29.94	760.5	71.8	22.1	85	nne.			5		10							raining.
S. S. City of Agra, S. 37° 21′, W. 23° 24′	29.99	761.7	52.2	11.2	95	ene.			5		10							overcast.
S. S. Minho, N. 22° 40′, W. 19° 30′	29.98	761.5	73.6	23.1	88	nnw.			4		0							misty.
May Hulse, N. 28° 42′, W. 38° 54′	30.20	767.1	82.5	28.1	70	calm			0		1							blue sky
S. S. Mertola, N. 50° 12′, W. 6° 33′	30.32	770.1	62.2	16.8	97	w.			5		6							d. clouds.
S. S. Oamaru, S. 10° 55′, W. 11° 04′	30.12	765.0	72.7	22.6	76	ese.			4		6							d. clouds.
S. S. Pole Star, N. 43° 26′ W. 32° 23′.	30.29	769.4	70.3	21.3	100	sse.			5		8							misty.
CROMWELL LINE.																		
S. S. Hudson, N. 27° 20′, W. 80° 00′†	30.15	765.8	77	25.0		sse.			3		1		s.	0	0	mod.	se.	hazy.
CUNARD LINE.																		
S. S. Marathon, off Long Sh p's Light, England	30.25	768.3	64	17.8		sw.			3		2		sw.	0	0	mod.	sw.	fine.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Ville de Marseilles, N. 35° 40′, W. 7° 40′ *†	30.00	762.0	80	20 7		ne.			4		4		n.	0	0	mod.	ne.	fai .
GUION LINE.																		
S. S. Wisconsin, N. 40° 40′, W. 68° 00′	30.20	767.1	66	18.9		calm			0		0			0	0	sm'h		fine.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Herder, Hamburg, Germany	29.88	758.9	64	17.8		w.			6		6		wnw.	3 h'r	3 h'r			stormy.
S. S. Silesia, N. 50° 06′, W. 3° 38′	30.24	768.1	61.5	16.4		wnw.			5		1		nw.	0	0	4	nw.	fair.
S. S. Westphalia, New York, N. Y.	30.12	765.0	67	19.4	?	ene.			3		10		ene.	2 h'r	2 h'r			rainy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Buenos Ayres, S. A*†	30.40	772.1	50	10.0		ene.			4		6		ne.	0	0			cloudy.
MALLORY LINE.																		
S. S. Colorado, N. 37° 35′, W. 80° 05′†	30.10	764.5	76	24.4		sse.			3		4		s.	light	light	small	s.	fair.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 37° 37′, W. 54° 17′*†	30.16	766.1	73	22.8	85	nne.			3		5		ne.	0	0	mod.	nne.	fair.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 17° 30′ W. 57° —′†	30.07	763.8				ese.			3		3		e.	0	0	low	e.	clear.
MORGAN LINE.																		
S. S. Chalmette, New York, N. Y.†	30.22	767.6	73	22.8		ne.			2		10							light rain
S. S. New York, N. 29° 40′, W. 80° 30′†	30.31	769.9	80.0	26.7		s.			5		2		s.			sm'h	s.	clear.
NATIONAL LINE.																		
S. S. Canada, Gravesend, Eng.†	30.07	763.8	60	15.6		w.			6		4		w.	0	0	sm'h	n.	hazy
S. S. Denmark, New York, N. Y.	30.18	766.6	70	21.1		ene.			2		10		e.	½ h'r	½ h'r			raining.
S. S. England, off Tuskar, Ireland	30.17	766.3				wsw.			5		8		wsw.	0	0	sl't	w.	cloudy.
S. S. Erin, N. 40° 50′, W. 53° 59′	30.07	763.8	76	24.4	91	w.			2		0			1 h'r	1 h'r	sm'h		fine.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, Guantanamo, W. I†	30.12	765.0	78	25.6		n.			5		1			0	0			fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W. I	30.20	767.1	82	27.8	96	calm			0		5		ssw.	⅛ h'r	⅛ h'r			fair.
S. S. City of Washington, Vera Cruz, Mexico *†	30.05	763.3	84	28.9		w.			1		5		w.	0	0	sm'h		fair.
NORTH GERMAN LLOYD.																		
S. S. Graf Bismarck, N. 44° 00′, W. 80 53′	30.39	771.9	66.2	19.0		ene.			6		1		e.	0	0	long	e.	hazy.
S. S. Leipzig, N. 40° 21′, W. 66° 31′	30.21	767.3			60	calm			0		2			0	0	sm'h		fair.
S. S. Ohio, N. 45° 33′, W. 35° 22′	30.27	768.8				s.			5		7		sw.	0	0	mod.	ssw.	cloudy.
S. S. Salier, N. 49° 12′, W. 39° 36′	29.99	761.7	51.8	11.0		ssw.			5		10		ssw.	4 h'r	4 h'r	cross	sw; w	light fog.
S. S. Strassburg, N. 42° 38′, W. 50° 14′	30.01	762.2	60.0	15.6	91	s.			2		7		e.	0	0	sm'h	nne.	covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 42° 19′ E. 177° 19′†	30.14	765.5	65	18.3	89	ssw.			5		10		s.	2 h'r	2 h'r	sm'h		cloudy.
S. S. Coptic, N. 28° 12′, E. 126° 02′	29.52	749.8	82.0	27.8	93	ese.			5		9.		se.	4 h'r	4 h'r		se.	misty.
S. S. Gaelic, N. 37° 57′, E. 154° 34′†	30.28	769.1	71	21.7	95	wsw.			2		fg.		sw.			sm'h		foggy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga †.	30.14	765.5				sw.			1		4		sw.	0	0			clear
S. S. Seminole, Boston, Mass †	30.22	767.0	76	24.4	82	sw.			1		1		sw.	0	0			clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, San Francisco, Cal†	30.11	764.8	55	12.8	100	calm			0		2							hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal.†	30.06	763.5	56	13.3	94	w.			1		10		w.					foggy.
S. S. City of Chester, San Pedro, Cal.*†	29.92	760.0	64	17.8	100	calm			0		10		w.			small	nw.	cloudy.
S. S. Idaho, N. 48° 26′, W. 123° 36′†	30.07	763.8	52	11.1	86	calm			0		8		n.	0	0	sm'h		cloudy.
S. S. State of California, N. 43° 43′, W. 124° 10′†	30.03	762.7	56	13.3	87	se.			4		0					sm'h	w.	clear.
S. S. Victoria, N. 40° 25′, W. 124° 32′†	30.10	764.5	51	10.6	100	se.			2					driz	driz	sm'h		fai .
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	29.89	759.2	57	13.9	78	w			2		1		w.	0	0			clear.
S. S. City of New York, Sydney, N. S. W†.	29.96	761.0	57	13.9	75	calm			0		0			0	0			clear.
S. S. City of Pekin, N. 38° 26′ W. 125° 06′†	30.21	767.3	58	14.4	88	sw.			2		10		sw.	0	0	sm'h		foggy.
S. S. City of Rio de Janeiro, N 7° 08′, W. 81° 05′*†	30.10	764.5	70	20.1	86	wsw.			1		10		sw.	0	0	mod.	sw.	fine.
S. S. City of Sydney, N. 34° 11′, W. 152° 52′†	30.11	764.8	74	23.3	70	ne.			2		5		ne.	0	0	mod.	ne.	fair.
S. S. City of Tokio, Hong Kong, China †	29.48	748.8	82	27.8	91	sw.			6		10		sw.	20 h'r	20 h'r			raining.
S. S. Colon, N. 34° 10′, W. 73° 52′†	30.17	766.3	81	27.2		ssw.			4		0		s.	0	0	small		cloudy
S. S. Costa Rica, Panama Panama*	29.82	757.4	78	25.6	100	calm			0		8		ne.	3 h'r	3 h'r	sm'h		raining.
S. S. Grenada, N. 12° 00′, W. 87° 46′†	29.91	759.7	80	26.7	78	e.			3		2		e.	1 h'r	1 h'r	sm'h	sse.	clear
S. S. Zelandia, N. 32° 15′, W. 135° 36′†	30.07	763.8	72	22.2	90	sw.			1		8		sw.			mod.	w.	fair.
QUEBEC S. S. COMPANY.																		
S. S. Bermuda, N. 18° 36′, W. 63° 52′†	30.08	764.0	83	28.3		ene.			2		2		e.	1 h'r	1 h'r	gentle	ene.	
S. S. Muriel, N. 29° 46′, W. 68° 10′	30.13	765.3	81	27.2		ese.			2		10			0	0	mod.	ne.	overcast.
RED D LINE.																		
S. S. Valencia, N. 37° 59′, W. 73° 14′*†	30.34	770.6	76	24.4	77	se.			4		9		sse.	light	light	mod.	s.	hazy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Red Star Line.																		
S. S. Belgenland, Philadelphia, Penn †	30.29	769.4	74	23.3	86	s.			3		7		s.	sh'rs	shr's			drizzling.
S. S. Nederland, N. 48° 30′, W. 20° 56′†	30.43	772.9	65.5	18.6	92	wsw.			2		10		wsw.	o	o	sm'h	wsw.	overcast.
S. S. Rhynland, N. 50° 00′, W. 4° 30′	30.56	776.2	66	18.9	89	wnw.			5		2		nw.	2 h'r	2 h'r	sm'h		fair.
S. S. Switzerland, N. 39° 48′. W. 71° 53′†	30.23	767.8				sse.			2		10		sse.	o	o	sm'h		cloudy.
S. S. Vaderland, Jersey City, N. J	30.09	762.0	70	21.1	85	ne.			2		10		e.					rainy.
S. S. Waesland, N. 40° 54′, W. 65° 36′	30.17	766.3	69	20.6		wsw			5		2		wsw.	o	o	mod.	w.	fair.
Rotterdam Line.																		
S. S. Schiedam, N. 42° 11′, W. 53° 17′	29.99	761.7	71.4	21.9	89	wsw.			6		4		w.	o	o	r'gh	w.	fair.
S. S. W. A. Scholten, N. 47° 16′ W. 33° 35′*	30.14	765.5	68.0	20.0	90	sse.			3		7		se.	o	o	mod.	sw	
State Line.																		
S. S. State of Florida, N. 40° 44′, W. 71° 55′	30.14	765.5	69	20.6		wsw.			2		9		wsw.	o	o	sm'h		cloudy.
S. S. State of Georgia, N. 51° 57′ W. 28° 11′†	30.25	768.3	60	15.6		wsw.			4		10					mod.	wsw.	dense fog.
Thingvalla Line.																		
S. S. Thingvalla, N. 55° 57′ W. 23° 36′†	30.42	772.7	54.5	12.5	100	wnw.			3		7		wnw.	3 h'r	3 h'r	mod.	wnw.	covered.
W. I. & Pacific Steamship Co.																		
S. S. Venezuela, N. 45° —′, W. 35° —′*	30.20	767.1	72	22.2	85	se.			5		8		se.			mod.	se.	hazy.
White Cross Line.																		
S. S. Plantyn, N. 46° 30′, W. 66° 50′	30.22	767.6							1		2		nw.	o	o	sm'h		
White Star Line.																		
S. S. Adriatic, Liverpool, Eng*†	30.20	767.1	63	17.2	89	w.			6		10		w.	10 h'r	10 h'r			drizzling
S. S. Baltic, N. 44° 16′ W. 45° 29′	29.98	761.5	60	15.6	82	nw.			4		9		s.	3 h'r	3 h'r	3	nw.	d clouds.
S. S. Celtic, N. 45° 23′ W. 44° 54′†	29.97	761.2	58	14.4	82	w.			4		8		nw.	24 h'r	24 h'r	mod.	w.	cloudy.
S. S. Germanic, N. 42° 17′, W. 47° 48′†	30.13	765.3	58	14.4		nw.			3		7		sw.	o	o	sm'h		d. clouds.
S. S. Republic, New York, N. Y†	30.34	770.6	70	21.1	75	e.			3		10		e.					raining.
Wilson Line.																		
S. S. Romano, N. 47° 45′, W. 23° 41′	30.43	772.9	64	17.8		sw.			1		10		sw.	o	o	mod.	sw.	overcast.
Winsor Line.																		
S. S. Catherine Whiting, Philadelphia, Pa†	30.16	766.1	68	20.0		ne.			1					h'vy	hv'y			rainy.
Miscellaneous.																		
Bk. Adelaide, N. 35° 48′, W. 71° 50′*†	30.25	768.3	82	27.8		sse.			5		10		sse.	7 h'r	7 h'r	con.	ese.	raining.
Schr. Ajax, N. 30° 17′ W. 79° 26′†	30.16	766.1				s.			1		8		calm	3 h'r	3 h'r	long	ese.	squally.
Bk. Alpha, N. 51° 00′ W. 36° 20′†	30.21	767.3	60	15.6		s.			6		10		sw.	1 h'r	1 h'r	mod.	s.	foggy.
Bk. Anna Thormann, S. 38° 38′, E. 75° 54′	25.76	755.8	55.4	13.0	90	nw.			10		10 n		nw.	sh'rs	sh'rs	high	nw.	rainy.
S. S. Antonio Lopez, Havana, Cuba, W. I*	30.05	763.3	78.5	25.8	90	calm			0		7			o	o			cloudy.
Bk. Argonaut, N. 44° 25′, W. 53° 03′*†	29.95	760.7	52.2	11.2		wsw.			4		2		wnw.	½ h'r	½ h'r	sm'h	wsw.	fair
Bk. Aureola, S. 9° 38′ W 35° 10′*†	30.20	767.1	82	27.8		se.			5		5		sse.	o	o	hv'y	cross	fair.
Bk. B. F. Watson, N. 34° 59′ W. 49° 14′†	29.95	760.7	72	22.2		ne.			6		10		e.	8 h'r	8 h'r	mod.		raining.
Bk. Bremen, N. 58° 31′ W. 9° 40′						w.			7		9		w.	4 h'r	4 h'r	cross		cloudy.
Bk. Cato, Malmo, Sweden*†	30.15	765.8				nw.			4									fair.
Bk. Celestina, N. 1° 30′, W. 24° 27′*†	30.04	763.0				ese.			2				se.	o	o	sm'h		fine.
Schr. C. R. Flint, N. 34° 52′, W. 71° 17′*†	30.28	769.1	74	23.3		ese.			1		10		w.	sh'rs	sh'rs	r'gh	ne.	raining.
S. Cornelius, N. 45° 40′. W 12° 46′*†	30.63	778.6	58.1	14.5		ne.			3		10		e.	o	o	mod	se.	cloudy.
S. S. D. J. Foley, N. 32° 20′, W. 74° 40′†	30.08	764.0				ssw.			3		3		sw	o	o	long	n.	clear.
S. Dora, N. 8° 36′ W. 23° 25′†	30.07	763.8	80.2	26.8		s.			4–5		9		ssw.	2 h'r	2 h'r	rg'h	s.	squally.
Schr. Edith R. Seward, N. 31° 15′, W. 74° 04′*†	30.22	767.6	86	30.0		sse.			1		5		se.	2 h'r	2 h'r	mod.	sse.	fair.
S. E. J. Spicer, New York, N. Y*	30.18	766.6	72	22.2		ese.			5		10		s.	2 h'r	2 h'r			overcast.
S. Enoch Train, N. 47° 30′, W. 19° 06′†	30.68	779.3				nw.			1		10		calm	o	o	sm'h		overcast.
Bk. Essex, S. 26° 16′ E. 42° 03′*†	30.09	764.3	85	29.4		sw.			3		1		sw.	o	o	sm'h	s.	clear.
Bk. Franklin, N. 46° 40′, W. 31° 50′*†	30.63	778.6				ssw.			3		0			o	o			clear.
Bk. Freya, Baltimore, Md						ene.			4		10		e.	16 h'r	16 h'r			rainy.
S. Glendon, N. 37° 25′ W. 72° 10′†	30.11	764.8	79	26.1		se.			4		10			6 h'r	6 h'r	sm'h		cloudy.
Bk. Godfrey, Off Small's Id, Ireland	30.15	765.8	59.9	15.5	96	wsw.			5					o	o			cloudy.
S. Grecian, Hong Kong, China*†	29.50	749.3	86	30.0		sw.			6		10		sw.	6 h'r	6 h'r	sm'h		cloudy.
Bk. Gronsvaer, N. 35° 40′ W. 50° 00′†	29.97	761.2				ne.			6		10		ne.	1 h'r	1 h'r	mod.	ne.	drizzling.
Bk. Hattie G. McFarland, Boston, Mass *†	30.22	767.6	69	20.6		w.			3		5?		nw.	o	o			cloudy ?
Bk. Heinrich & Tonio, N. 40° 30′, W. 47° 38′*†	30.26	768.5	66	18.9		n.			5–6		8		n.	o	o	mod.	n.	cloudy.
Bk. Horace Scudder, Port of Spain, Trinidad, W. I†	30.02	762.5	84	28.9		calm			0		1		calm	2 h'r	2 h'r			blue sky.
S. Ivy, S. 28° 50′, W. 126° 35′†	30.30	769.6	66	18.9		ene.			1		1			o	o	mod.	wsw.	clear.
S. Ismir, S. 13° 06′ E. 105° 50′†	30.02	762.5				se.			5		8		se.	o	o	mod.	se.	fine.
Schr. James Slater, N. 27° 39′ W. 70° 45′*†	30.43	772.9	83	28.3		nnw.			1		2		n.	o	o	light	se.	fine
Schr. Jennie N. Huddell, Philadelphia, Pa†	30.17	766.3	70	21.1	95	e.			3		2		e.	rain	rain			storming.
Bk. Johanne, N. 44° 41′, W. 53° 38′*†	29.85	758.2	61	16.1		wnw.			4		5		w.	o	o	mod.	wnw	fine.
Bg. John Wesley, St. Jago, Cuba, W I†	29.90	759.4				n.			1		7			o	o			cloudy.
Bk. Joseph A. Ropes, S. 32° 45′, W. 24° 45′*†	29.92	760.0	58	14.4	81	nw.			4		8		nw.	1 h'r	1 h'r	long	w.	cloudy.
Bkt. Josephine, Havana, Cuba, W I†	30.06	763.5	81	27.2	78	sse.			2		3			o	o			hazy.
Bkt. Kryolith, N. 40° 29′, W. 68° 50′*†	30.22	767.6				ssw.			1		5?		n.			sm'h		cloudy?
S. S. Laurel, Cedar Keys, Florida†	30.10	764.5	78	25.6		se.			4		10		s.	10 h'r	10 h'r			stormy.
Bk. Liberia, N. 27° 16′, W. 65° 22′*	29.96	761.0	82	27.8	87	nnw.			1		4		nw.	o	o			
Schr. Maggie Abbot, N. 26° 47′, W. 76° 20′†	30.16	766.1				n.					2		n.	o	o	mod.	sse.	clear.
S. Minnie N. Gerow, N. 44° 00′, W. 37° 49′*†	30.12	765.0				ese.			3		3		se.			sm'h	se.	fine.
S. M. P. Grace, S. 56° 07′, W. 77° 26′*	29.88	758.9	42	5.6		e.			3				e.	o	o	r'gh	n.	hazy.
Bk. National Eagle, N. 39° 00′ W. 48° 27′†	30.04	763.0				n.			5		4		nne.	o	o	mod.	n	
S. S. Nebo, Genoa, Italy*†	29.90	759.4				ene.			2		0			o	o			clear.
S. Orealla, N. 31° 52′, W. 39° 00′*	30.07	763.8				sw.			2		2		wsw.	o	o	mod.	ese.	clear.
S. Paramita, N. 27° 38′ W 134° 08′†	30.08	764.0	75	23.9		ne.			1		4?		ne.	o	o	long	s.	cloudy.?
Bk. Rosebud, S. 35° 12′, E. 21° 31*†	30.40	772.1	64	17.8	73	s.			2		0			o	o	sm'h		fine.
S. St. Francis, N. 35° 51′ W. 66° 15′†	30.21	767.3	76	24.4		ne.			4		2		nne.	o	o	short	ne.	fine.
Bk. Sunbeam, N. 39° 15′ W. 48° 34′†	30.09	764.3	68	20.0	90	nne.			7		10		ne.	o	o	r'gh	nne.	cloudy.
S. S. Sunbeam, N. 36° 48′, E. 13° 22′	30.03	762.7	75	23.9	81	w.			4		0					2	wnw.	misty.
S. Sovereign Of The Sea, S. 31° 31′ W. 47° 11′*†	30.37	771.4	59	15.0	87	se.			2		7		se.	o	o	long	sse.	fair.
Bk. Truro, N. 46° 25′. W. 64° 45′*†	30.17	766.3				wnw.			3		3		wnw.	o	o	sm'h		clear.
U.S. F. C. S. S. Fish Hawk, Chatham, Mass†	30.37	771.4	67	19.4	84	wsw.			2		7		calm	o	o			fair.
Bk. Vincenzo Accame, N. 37° 10′, W. 30° 45′†	30.47	774.0	75.2	24		ese.			4		0							clear.
Schr. Viola Reppard, N. 34° 35′, W. 76° 04′†	30.04	763.0	82	27.8		ssw.			1		5		ssw.	6 h'r	6 h'r	long	ene.	
Bg. Wauburn, Palanque, San Domingo, W. I	30.10	764.5				ne.			4		0					mod.	ese.	clear.
Bk. Warden Law, Sunderland, Eng*	30.02	762.5				nw.			7				nw.	o	o			fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 3, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.17	766.4	78.8	26.0	76	s.			1		0			0	0	clear	Bouvier.
Algiers			30.19	766.8	81.3	27.4	55	n.			2		0			0	0	clear	Thève.
La Galle			30.09	764.2	83.8	28.8	78	nw.			5		3			0	0	pretty fair	Fonfrède.
Tunis			30.08	764.0															Jacques.
Saida			30.17	766.2															Perès.
Tebessa			30.14	765.5	75.6	24.2	53	sw.			3		0			0	0	clear	Rigaud.
Geriville					86.0	30.0	11	nnw.			3		0			0	0	clear	Lonchamp.
Laghouat			30.15	765.7	95.0	35.0	39	e.			1		0			0	0	clear	Abraham.
Biskra			30.14	765.5	91.8	33.2	28	nw.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.68	753.9	29.78	756.4	50.0	10.0	75	n.	19	8.5			10			0	0	squally	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.40	746.7	29.92	760.0	77.5	25.3	57	w.			1		5			0.157	4.0	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.10	739.1	29.85	758.1	66.6	19.2	89	sw.	11.9	5.3			10			0.484	12.3		Dr. Wierzbiski.
Eperies	28.98	736.0	29.82	757.5	70.3	21.3	70	s.			2		10 s			0	0		Julius Mikolik.
Gratz	28.72	729.4	29.92	760.0	70.9	21.6	76	s.			3		10			0.051	1.3		Andreas Rospini.
Hermannstadt	28.50	724.0	29.86	758.5	76.3	24.6	50	w.			1		8			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.04	727.5	29.95	760.7	64.8	18.2	79	nw.			2		10			0.138	3.5	raining	The Staff.
Lemberg	28.89	733.9	29.84	757.9	73.4	23.0	58	sw.			2		5			0.051	1.3		Dr. T. Stanecki.
Pola	29.81	757.1	29.91	759.8	79.5	26.4	61	wnw.			1		8			0	0		I. R. Hydrographic Office.
Szatthmar	29.43	747.4	29.87	758.7	75.6	24.2	55	sw.			3		5			0.406	10.3		Joseph Midlinszky, S. J.
Szegedin	29.66	753.3	29.93	760.1	76.3	24.6	55	calm			0		0			0	0		Karl Stancel.
Trieste																			Royal Academy.
Vienna	29.22	742.2	29.92	759.9	66.6	19.2	73	w.			3		9			0.126	3.2		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.96	761.0	30.06	763.5	57.7	14.3	50	wnw.	32	14.3			6			0	0	squally	W. Boswell
Armagh, Observatory	30.06	763.5	30.30	769.6	61.4	16.3	68	nw.	9	4.0			7					d. clouds	S. Call.
Bidston, Liverpool Obs'y			30.21	767.3	58.8	14.9	76	w.	33	14.8			7					d. clouds	John Hartnup.
Bolton, Shurples	29.63	752.6	30.17	766.3	58.6	14.8	77	wnw.	7	3.1			9					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.74	755.4	30.14	765.5	63.0	17.2	57	nw.			3		5			0	0	d. clouds	J. McLandsborough.
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	84.0	28.9	67	ne.			2		2					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			30.18	766.6	63.4	17.4	69	nw.			2.0		9					overcast	John McLaren.
Chatham, School M. E.	30.08	764.0	30.21	767.3	61.6	16.4	61	nw.			1		9					gloomy	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.08	764.0	30.30	769.6	61.9	16.6	64	nnw.			4		5					d. clouds	The Staff.
Fort Napier, Natal	27.86	707.6	30.08	764.0	62.2	16.8	66	e.			1		4					blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.72	754.9	29.95	760.7	78.0	25.6	90	nw.			1		0						Sergt. John Robinson.
Gibraltar, Mediterranean	30.04	763.0	30.10	764.5	82.5	28.1	76	sw.			2		0					blue sky	Corpl. F. Norris, A. H.C
Glasgow, Observatory	29.96	761.0	30.16	766.1	59.3	15.2	93	w.			6	6 c	0					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.02	762.5	30.19	766.8	66.9	19.1	62	nnw.			3		10					overcast	The Staff.
Guernsey	29.97	761.2	30.27	768.8	62	16.7	77	nw.			1	4 c	0					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.19	766.8	30.22	767.6	62.2	16.8	53	nw.	12	5.4			8					d. clouds	The Staff.
Leicester, Museum	29.93	760.2	30.18	766.0	63.0	17.2	57	nw.			2		8					d clouds	J. C. Smith.
Malta, Mediterranean	29.86	758.4	29.94	760.5	78.0	25.6	82	nw.			1		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.09	764.3	30.14	765.5	84.0	28.9	65	se.			1		5					d clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.70	754.4	30.22	767.0	58.8	14.9	64	nw.			4		8					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.99	761.7	30.22	767.0	60.3	15.7	68	wnw.			3		9					overcast	The Staff.
Plymouth	30.19	766.8	30.27	768.8	66.0	18.9	60	nw.			4		2					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			30.02	762.5	53.8	12.1	69						3					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.69	754.1	29.75	755.6	93.2	34.0	48	nne.			3		0					misty	W. H. Lyne.
Sheffield	29.88	758.9	30.16	766.1	66.3	19.1	50	nw.			4		1			0	0	blue sky	W. F. Cooper.
Stilloth Rectory	30.13	765.3	30.16	766.1	65.8	18.8	53	nnw.			3		4			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.21	767.3	59.1	15.1	61	wnw.	21	9.4			6					d. clouds	I. New.
Stratfield Turgiss					65.4	18.6	60	nw.			1		5					d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.30	769.6	30.31	769.9	66	18.9	64	n.			7		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.38	771.6	30.41	772.4	59.9	15.5	74	nnw.	16	7.2			5					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.90	759.4	29.94	760.5	67	19.4	72	n.	9	4.0		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.95	760.7	30.01	762.2	66	18.9	75	nw.	4	1.8		4 ck	0	nw.		0	0	fair	G. A Blair.
Father Point, Quebec*	29.98	761.5	30.00	762.0	56	13.3	100	calm	0	0		8 c	hz.	n.		0	0	dense haze	J. McWilliams.
Fort Garry, Manitoba*	29.32	744.7	30.13	765.3	66	15.6	93	calm	0	0		0	0			0	0	clear	James Stewart.
Halifax, N. S*	29.81	757.2	29.94	760.5	70	21.1	76	nw.	3	1.3		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.71	754.6	30.03	762.7	71	21.7	76	calm	0	0		3 ck	1 s	w.	calm	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.79	756.7	29.99	761.7	76	24.4	62	w.	4	1.8		5 ck	0	nw.		0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.37	746.0	30.04	763.0	60	15.6	78	ne.	5	2.2		2 k	5 ks	se.	se.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.31	744.5	29.97	761.2	69	20.6	95	e.	5	2.2			10 n			lmap.	lmap.	cloudy	H. Morgan.
Port Stanley, Ontario	29.33	745.0	29.95	760.7	66	18.9	93	e.	5	2.2			10 n		se.	0.20	5.1	light rain	M. Payne.
Quebec, Quebec*	29.70	754.4	30.01	762.2	68	20.0	84	n.			1	0	hz.			0.01	0.3	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.60	751.8	30.04	763.0	61	16.1	96	nw.	4	1.8		3 c	0	sw.		0	0	fair	W. H. McIntyre.
Stangeen, Ontario*	29.29	744.0	29.98	761.5	66	18.9	87	calm	0	0			10 ks			0	0	cloudy	
St. Andrews, N. B	29.91	759.7	29.96	761.0	70	21.1	67	ne.	5	2.2		0	0			0.06	1.5	clear	
Sydney, C. B*	29.86	750.9	29.86	758.4	67	19.4	66	nw.	10	4.5		2 c	0	n.		0.01	0.3	clear	T. C. Hill, C. E
Toronto, Ontario*	29.65	753.1	30.02	762.5	69	20.6	87	e.	9	4.0		5 cs	5 ks	se.		lmap.	lmap.	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.87	758.7	29.94	760.5	67	19.4	81	ne.	1	0.4		0	0			lmap.	lmap.	clear	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.63	727.2	30.04	763.0	63.5	17.5	94	se.			3		10 n			0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.987	761.57	30.237	767.87	62	16.7	77	ne.				0	0			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.20	767.1	30.22	767.6	65	18.3	68	ne.	4.4	2.0		0	0			0	0	clear	C. Hansen.
Cape Town, C. G. H. Obs'y	30.15	765.8	30.18	766.6	66.0	18.9	69	sse.	16	7.2		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.43	747.5	29.45	748.1	72.0	22.2	90	wnw.	17.2	7.7		10 n				0.201	5.1	raining	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.50	749.2	29.54	750.4	64.0	17.8	67	w.	22	10		7							Oversergent Fischer.
Fanöe	29.71	754.5	29.72	755.0	61.7	16.5	71	wnw.			7	9							Overloerer Lauridsen.
Godthaab, Greenland	29.66	753.3	29.70	754.4	46.2	7.9	100	ne.			2	10				0.118	3.0	foggy	S. Kleinschmidt.
Ivigtut	29.63	752.5	29.65	753.0	50.7	10.4		w.			4	9						foggy	
Stykkisholm, Iceland	29.99	761.7	30.03	762.8	49.3	9.6	67	e.			2	2							A. O. Thorlacius.
Thorshavn	29.94	760.4	29.97	761.3	50.0	10.0	61	se.	20	9		3							Overloerer Bergh.
Vestervig	29.50	749.4	29.60	751.7	60.6	15.9	65	wnw.			8	3							Loerrer Oesterbol.
FRENCH.																			
Agen, Normal School	29.63	752.7	30.27	768.9	68.0	20	77	wnw.			1	10 n		ne.		0	0	covered	M. Labroue, Director.
Alençon, Normal School	29.67	753.5	30.22	767.5	69.8	21	58	nw.			1	k	n.	sw.		0	0		M. Nicot, Director.
Arras, Engineer School	29.91	759.8	30.17	766.2	63.9	17.7	57	nw.			3	k		nw.		0	0		M. Fénéon, Command't.
Avignon, Normal School	30.00	762.0	30.08	764.0	83.5	28.6	50	n.			3	0				0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.61	752.1	30.15	765.9	68.2	20.1	76	e.			1	8		n.		0.126	3.2	very cloudy.	M. Saillard, Director.
Beauvais, Normal School	29.92	760.0	30.18	766.6	67.5	19.7	51	nw.			2	8		nw.		0.003	1.6	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.08	738.7	29.95	760.8	67.8	19.9	85	ssw.			1	10 kn		s.		0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.98	761.6	30.24	768.1	73.6	23.1	64	wnw.			1	10		wnw.		0	0	covered	M. Rayet, Director.
Bourges, Normal School	29.62	752.3	30.16	766.1	66.2	19	67	n.						n.		0	0		M. Malet, Director.
Brest, Naval Observatory	30.06	763.5	30.30	769.7	66.6	19.2	76	nne.			2	3		nne.		0.031	0.8		M. de Kermaree, Dir.
Caen, Normal School	30.07	763.7	30.14	765.6	61.5	16.4	90	w.			1	5		w.		0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.72	754.8	30.03	762.7	73.4	23.0	68	ssw.			1	5		ne.		0.157	4.0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.63	752.6	30.13	765.4	68.4	20.2	53	n.			3	8				0.04	1.	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.85	732.9	30.18	766.5	68.7	20.4	68	wnw.			2	10		w.		0	0	covered	M. Alluard, Director.
Cluny, Normal School	29.35	745.4	30.18	766.5	69.1	20.6	73	nw.			1	9	n.	w.		0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.26	717.8	30.13	765.2	68.4	20.2	89	nw.			3	kn	nw.	nw.		0.055	1.4		Dr. Coulet, Director.
Gap, Normal School	27.51	698.7	29.91	759.7	83.1	28.4	30	n.			1	4 ck	0	n.		0	0		M. Jeanglrard, Director.
Gréasque, du Rhone	28.89	733.7	29.95	760.7	84.6	29.2	27	nw.			4	1		nw.		0	0		M. Kina, Director.
Grenoble, Normal School	29.34	745.1	30.08	764.0	74.5	23.6	45	nw.			2	kn		ne.		0	0		M. Ablard, Director.
Lamballe, Normal School					68.0	20	64	nw.			2	0	5 k		nw.	0.04	1.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.67	753.5	30.22	767.7	69.8	21.0	69	w.			1	5				0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.17	766.2	30.27	768.8	68.0	20.0	77	n.			1	5		n.		0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.15	740.3	30.18	766.6	70.3	21.3	62	n.			2	10		n.		0	0	covered	M. André, Director.
Mans, Normal School	29.94	760.4	30.24	768.1	71.4	21.9	59	nw.			1	8		n.		0	0	very cloudy.	M. Piboen, Director.
Marseille, Observatory	29.71	754.7	29.97	761.3	84.7	29.3	29	nw.			4	2		nw.		0	0		M. Stephan, Director.
Montlouis	25.06	636.4	29.90	759.4	73.4	23.0	42	n.	3.8	1.7		0				0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.87	758.6	29.99	761.7	81.7	27.6	48	nw.			3	0				0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.33	744.9	30.09	764.3	68.7	20.4	71	w.			2	5 ck	0	w.		0.031	0.8	cloudy	M. Hasse, Director
Nantes. Observatory	30.12	765.0	30.28	769.1	69.4	20.8	78	nw.			0–2	10 n		nw.		0	0		M. Larocque, Director.
Perpignan, Observatory	30.01	762.3	30.11	764.9	85.5	29.7	39	nw.	18.6	8.3		0				0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.58	548.0			55.2	12.9		sw.			1	2		sw.		0	0	slightly cl'dy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.10	739.0	30.12	765.0	79.5	26.4	53	w.			1	2				0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.36	644.0			50.9	10.5	100	wnw.			4	10				0.020	0.5	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	30.23	767.9	30.26	768.7	75.2	24.0	100	w.			1	2		wnw.		0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.03	762.7	30.24	768.0	68.0	20	87	w.			1	8		e.		0	0	very cloudy.	M. Mouillot, Director.
Rodez, Normal School	28.06	712.7	30.11	764.8	75.2	24.0	60	w.			1	0				0	0	clear	M. Seger, Director.
Rouen, Normal School	30.19	766.7	30.23	767.9	66.6	19.2	61	n.			2	5		nw.		0.43	11.	cloudy	M. Brotier.
Saint Maur, Observatory	30.01	762.2	30.17	766.4	72.9	22.7	48	nw.			2	6		nw.	nw.	0.024	0.6		M. Renou, Director.
Toulouse, Observatory	29.57	751.1	30.30	769.6	76.3	24.6	59	nnw.			3	5		nw.		0	0	cloudy	M. Baillaud, Director.
Tours	30.03	762.7	30.21	767.2	73.0	22.8	68	sw.			1	8			w.	0	0	very cloudy	M. de Tastes.
Versailles, Observatory	29.69	754.1	30.18	766.6	69.4	20.8	49	n.			2					0.024	0.6		Dr. A. Berigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.89	759.3	30.19	766.7	68.9	20.5	51	wnw.			2		7		nnw	0.008	0.2		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.59	726.1	30.01	762.2	62.2	16.8	75	nw.			6		4	nw.		0.776	19.7	raining	Prof. Jnedt.
Bamberg	29.14	740.2	29.99	761.8	66.4	19.1	56	w.			3	0	6 k		w.	0.228	5.8	raining	Prof. Dr. Hoh.
Berlin	29.66	753.3	29.83	757.7	68.7	20.4	54	sw.			3		6			0.106	2.7		Prof. Dr. Arndt.
Breslau	29.35	745.0	29.88	759.0	66.0	18.9	68	wnw.			3		8			0.197	5.0		Royal University Obs'y.
Carlsruhe	29.61	752.0	30.04	762.9	69.4	20.8	72	sw.			2		9	nw.		0.102	2.6		Albert Senz.
Cassel	29.27	743.4	29.98	761.5	64.8	18.2	58	w.			6		7	w.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.67	753.7	30.03	762.7	68.2	20.1	57	w.			1		9			0.028	0.7		Physical Society.
Friedrichshafen	28.68	728.4	30.09	764.2	64.4	18.0	85	sw.			1		10	wsw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.76	756.0	29.86	758.4	61.0	16.1	70	w.			6		9			0.134	3.4	squally.	E. Preller.
Kiel	29.76	755.8	29.77	756.2	60.4	15.8	82	w.			6		10			0.118	3.0		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.51	749.6	29.93	760.1	64.4	18.0	67	nw.			3		3	wnw.		0.657	16.7		H. Leppig, Asst.
Magdeburg	29.70	754.3	29.88	759.0	60.8	16.0	83	w.			4		10 ks		wnw.	0.173	4.4		Dr. Assmann.
Memel	29.67	753.5	29.71	754.7	66.9	19.4	76	sw.			3	0	9 ks						Issermann.
Munich	28.24	717.3	30.11	764.7	61.0	16.1	87	sw.			3		10	w.		0.091	2.3		Dr. C. Lang.
Neufahrwasser	29.70	754.4	29.72	754.8	64.8	18.2	78	wsw.			3		9			0.067	1.7	raining	A. Lothes.
Neustadt, Palatiniate	29.48	748.7	30.00	762.1	69.8	21.0	61	w.			2		3			0.165	4.2		Dicknether.
Stuttgart	29.09	738.9	29.96	761.0	68.0	20.0	67	n.			4		7	nw.		0.126	3.2		Prof. Dr. Schoder.
Wustrow	29.71	754.5	29.73	755.1	60.8	16.0	80	wnw.			5		10 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.45	748.0	29.82	757.3	85.6	29.8		ne.			3.0	0	9 s					light rain	Schmidt & Wourlisch.
INDIAN.																			
Kurrachee	29.56	750.8	29.61	752.0	85.1	29.5	78	wsw.	26.0	11.6			5			0.07	1.8	d. clouds	
Deesa	29.10	739.3	29.58	751.2	79.1	26.2	95	wsw.	4.0	1.8			10	wsw.		3.88	98.6	overcast	
Bombay	29.67	753.6	29.71	754.6	81.9	27.7	76	wsw.	15.0	6.7			4	w.	wsw.	0.10	2.5	d. clouds	
Poona, Yarrowda	27.85	707.4	29.71	754.0	76.2	24.6	71	wsw.	36.0	16.1			10		w.	0	0	overcast	
Trichinopoly	29.48	748.8	29.75	755.7	92.4	33.6	39	wnw.	2.0	0.9			10			0	0	overcast	
Bellary	28.21	716.6	29.65	753.1	89.0	31.7	44	sw.	16.0	7.2			4			0	0	d. clouds	
Belgaum	27.24	691.9	29.80	756.8	70.4	21.3	88	sw.	8.0	3.6			7	e.	sw.	0.07	1.8	showery	
Lahore	28.73	729.6	29.44	747.8	94.1	34.5	66	calm	0	0			0			0	0	blue sky	
Roorkee	28.54	725.0	29.41	747.0	92.6	33.7	63	nw.	1.2	0.5			3			0	0		
Agra	28.88	733.7	29.43	747.4	95.1	35.1	59	ne.	2.0	0.9			1		ne.	0	0	d. clouds	
Nagpur	28.51	724.2	29.54	750.3	81.5	27.5	79	calm	2.0	0.9			10		w.	0.07	1.8	overcast	
Jubbulpore	28.17	715.6	29.51	749.6	80.2	26.8	95	wnw.	7.3	3.3			10		w.	1.65	41.9	overcast	
Lucknow	29.07	738.4	29.43	747.5	96.0	35.6	52	calm	0.6	0.3			0			0	0	blue sky	
Allahabad	29.10	739.2	29.40	746.8	93.0	33.9	66	ne.	1.0	0.4			2	w.		0	0	d. clouds	
Patna	29.29	743.9	29.47	748.5	92.2	33.4	59	e.	4.3	1.9			5	e.	e.	0	0	d. clouds	
Hazaribagh	27.50	698.4	29.45	748.1	85.0	29.4	67	ese.	4.9	2.2			8	e.		0	0		
Cuttack	29.47	748.4	29.55	750.7	83.5	28.6	85	s.	3.2	1.4			7			0.69	17.5	threatening	
Calcutta, Alipore	29.47	748.6	29.49	749.1	85.0	29.4	82	ssw.	8.0	3.6			5		s.	0.03	0.8	d. clouds	
Dhubri	29.37	746.0	29.49	749.0	86.8	30.4	79	ssw.	2.0	0.9			9		ese.	0	0	gloomy	
Chittagong	29.47	748.6	29.56	750.8	82.5	28.1	84	s.	4.8	2.2			9			0	0	d. clouds	
Sibsagar	29.16	740.7	29.49	749.0	85.9	29.9	79	sw.	1.3	0.6			10	w.	w.	0	0	d. clouds	
Jeypore	28.12	714.2	29.54	750.3	82.2	27.9	81	n.	2.6	1.2			7		n.	0.10	2.5	d. clouds	
Zanzibar, Africa	30.05	763.3			82.6	28.1	48	se.	5.7	2.4			2		ese.	0	0	d. clouds	
ITALIAN.																			
Udine	29.56	750.9	29.96	760.9	78.1	25.6	51	w.	0.7	0.3			10			0	0		Prof. Giovanni Clodig.
Milan	29.44	747.7	29.93	760.2	84.4	29.1	45	e.	3.8	1.7			7	nne.		0	0		Prof. Schiaparelli.
Padua	29.83	757.6	29.93	760.3	81.7	27.6	45	ene.	3.8	1.7			10	nw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.04	737.7	29.91	759.7	82.0	27.8	48	nw.	4.9	2.2			2			0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Genoa	29.78	756.3	29.96	761.0	78.8	26.0	67	sw.	5.6	2.5			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.08	713.2	29.91	759.6	80.1	26.7	38	w.			2		0			0	0		Prof. D. C. Bruno
Pesaro	29.86	758.5	29.91	759.7	79.0	26.1	57	ese.	11.9	5.3			4			0	0		Prof. Luigi Guidi
Florence	29.67	753.7	29.92	759.9	87.1	30.6	33	sw.			2		1			0	0		Prof. Costantino Pit.er
Leghorn	29.83	757.0	29.91	759.7	79.7	26.5	55	nw.	0.7	0.3			2			0	0		Prof. P. Monte.
Rome	29.76	755.9	29.93	760.1	88.5	31.4	36	wsw.	7.4	3.3			1			0	0		Prof. P. Tachini.
Lecce	29.67	753.7	29.91	759.8	79.2	26.2	50	ne.	10.1	7.2			0			0	0		Prof. C. de Giorgi
Cosenza	29.07	738.4	29.92	760.0	83.1	28.4	72	nw.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari	29.78	756.3	29.96	761.0	79.9	26.6	59	s.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.75	755.7	29.99	761.8	80.4	26.9	53	ne.	6.9	3.1			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.88	759.0	29.93	760.1	85.6	29.8	58	s.	3.1	1.4			2	sw.		0	0		Prof. Vincenzo Gulliano.
Sub-series.																			
Naples, S. R	29.45	748.0	29.95	760.6	84.2	29.0	43	sw.	2.5	1.1			0			0	0		Prof. T. Brioschi.
Stelvio	22.32	567.0			48.7	9.3	55	w.			2		10			0.055	1.4	misty	Prof. P. F. Denza.
Valdobbia	22.36	568.0			57.2	14.0	52	n.			2		8			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.98	761.5	30.01	762.2	75.0	23.9	90	calm	0	0		0	0			0	0	clear.	K. Ogawa.
Hakodate	29.99	761.7	30.01	762.2	70.2	21.2	94	nw.	8.4	3.8			0			0	0	clear	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.75	755.6	29.92	759.9	79.0	26.1	80	nne.	4.8	2.1			10s;ck			0.340	8.6	cloudy	M. Fojima.
Nagasaki, I. M. Obs'y	29.49	749.0	29.68	753.9	79.8	26.6	72	ese.	7.5	3.4		0	0			0.430	10.9	clear	
Nemuro	30.10	764.5	30.16	766.0	66.8	19.3	100	s.	6.0	2.7		10	0			0	0	foggy	
Niigata	29.90	759.5	29.94	760.5	83.1	28.4	69	se.	15.8	7.1		0	0			0	0	clear	M. Morita.
Nobiru	30.06	763.5	30.07	763.9	75.5	24.2	95	s.	18.3	8.1		0	0			0.105	2.7	clear	H. Midzushina.
Osaka	29.85	758.2	29.86	758.4	79.9	26.6	76	ne.	9.7	4.3			9 ks;s			0	0	cloudy	
Sapporo					72.7	22.6	93	se.	0.6	0.3			3			inap.	inap.	clear	
Tokei Obs'y, Yeddo	30.01	762.2	30.08	764.0	79.4	26.3	84	sse.	10.7	4.8		0	1 ks		s.	0.014	0.4	clear	The Staff.
Wakayama	29.81	757.2	29.86	758.4	77.2	25.1	85	e.	1.3	0.6		0	2		s.	0.040	1.0	fair	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	30.01	762.2	30.20	767.1	72.3	22.4	68	ese.	17.0	7.6		0	6 k;n		ese.	0.01	0.3	fair	Oliver & Figgis.
MEXICAN.																			
Guanajuato	23.69	601.7	29.91	759.7	62.2	16.8	70	ese.	0	0		0	0			0	0	clear	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.04	763.0	57.6	14.2	92	n.			1	2 c	0			0.268	6.8	clear	Prof. M. Leal.
Mazatlan	29.05	753.1	29.90	759.6	79.5	26.4	91	se.	0.9	0.4		0	8 n		e.	inap.	inap.	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.3	30.14	765.5	54.1	12.3	85	n.	0.2	0.1		1 ck	1 ks			0	0	clear	The Staff.
Morelia	24.22	615.1	30.26	768.6	59.9	15.5	61	se.			3	1	2	s.	se.	0	0	clear	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.98?	619.1?	29.90	760.9	60.8	16.0	75	w.			1	1 c	0	n.		0	0	clear	M. V. de Leon, M. E
Puebla, Catholic Institute	23.46	595.9	30.28	769.2	50.4	10.2	92	n.	0.9	0.4		0	9			0.055	1.4	covered	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	23.56?	572.8?	30.10	764.4	52.0?	10.5?	81	ne.	8.7	3.9		0	0			0	0	fine	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.15	765.8	30.15	765.8	63.1	17.3		wnw.			4					0.059	1.5		
Groningen	29.95	760.6	30.00	762.0	61.2	16.2		nnw.			5					0.047	1.2		
Helder	30.04	763.1	30.04	763.1	59.4	15.2		nw.			5					0	0		
Hellevoetsluis	30.11	764.8	30.11	764.8	62.4	16.9	58	wnw.			3					0.020	0.5		
Utrecht	30.04	763.0	30.09	764.2	66.0	18.9	64	wnw.			3		5			0.004	0.1	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.52	749.7	29.58	751.3	51.8	11.0	87	nnw.	29	13			10			0.433	11.0	raining	
Brono	29.25	743.0	29.29	744.0	65.1	18.4	59	ssw.	9	4			8			0	0		
Christiania	29.13	739.8	29.26	743.3	65.1	18.4	70	wsw.	7	3			6			0.358	9.1		
Gjæsvær	29.40	748.2	29.48	748.8	65.5	18.6		wsw.			2		7						
Lodingen	29.32	744.8	29.37	746.0	66.6	19.2	60	calm			0		2			0.016	0.4		
PORTUGUESE.																			
Angra, Azores					72.0	22.2	72	se.	7.4	3.3			3			0	0		Dr. J. A. Sampaio
Campo Major	29.10	739.0	30.02	762.4	102.2	39.0	14	ene.	1.3	0.6			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.08	763.9	30.16	766.1	75.7	24.3	78	sw.	4.3	1.9			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.76	755.9	30.10	764.6	86.2	30.1	32	wsw.	9.8	4.4			0			0	0		The Staff.
Ponta Delgada, Azores	30.23	767.8	30.30	769.6	74.5	23.6	62	calm	0	0			4			0	0		
Saint Paul de Loando	29.83	757.7	30.04	762.9	67.8	19.9	82	nnw.			2		0			0	0		
Serra da Estrella	25.56	649.1	30.02	762.6	79.3	26.3	27	ese.	8.1	3.6			0			0	0		
RUSSIAN.																			
Akmolinski	28.74	729.9	29.75	755.6	79.7	26.5	29	ne.	11	5		2 cs	0			0	0		Major K. Lasarew.
Archangel	29.85	758.2	29.87	758.7	81.1	27.3	44	se.	4	2			10			0	0	light clouds	Capt. Sselliwerstow.
Astrakhan	30.03	762.8	29.95	760.7	83.1	28.4	33	e.	7	3		0	0			0	0		Capt. Wisganow.
Barnaul	29.42	747.3	29.89	759.2	78.6	25.9	48	ne.	13	6			0			0	0		Meteorological Obs'y.
Dorpat	29.49	749.1	29.72	754.9	74.5	23.6	51	s	13	6			9 kn			0.012	0.3		Observatory.
Ekaterinburg	28.90	734.1	29.85	758.3	52.5	11.4	95	ne.	11	5			10 n			0.059	1.5	light rain	Meteorological Obs'y.
Irkutsk																			
Kasan	29.58	751.3	29.83	757.7	76.1	24.5	55	wnw.	4	2			10			0.102	2.6		Observatory.
Kertch	29.74	755.5	29.76	756.0	80.9	30.5	74	sse.	9	4		6 cs	0			0	0		Lagorio & Sastyrez.
Kieff	29.22	742.2	29.82	757.5	75.6	24.2	33	nne.	2	1		3cs;ck	0						Observatory.
Lugan	29.63	752.7	29.82	757.5	92.3	33.5	23	ene.	13	6			7			0	0		Meteorological Obs'y.
Moscow	29.39	746.5	29.84	757.9	74.3	23.5	62	sw.	7.8	3.5		0	5 ks						Meteorological Obs'y.
Nikolaiev	29.76	755.9	29.83	757.7	83.7	28.7	61	n.	13	6		2 cs	0			0.264	6.7		Capt. Kurdakow.
Nikolaievsk, on the Amoor.																			Lieut. Iwanow.
Pekin, China	29.52	749.7	29.66	753.3	78.1	25.6	54	calm	0	0		0	1 k			0	0		Physical Observatory.
St. Petersburg	29.79	756.6	29.80	757.0	70.9	21.6	44	s.	11	5			9 kn			inap.	inap.		Central Physical Obs'y.
Semipalatinsk	29.13	739.9	29.73	755.2	90.0	32.2	32	n.	20	9			2			0	0	light clouds	Major Lasarew
Tashkend, Laboratory	28.23	717.0	29.67	753.6	92.8	33.8	29	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.48	723.4	29.80	756.8	93.6	34.2	26	sw.	9	4		0	0			0	0		Physical Observatory.
Vladivostock	29.71	754.7	29.78	756.4	64.8	18.2	93	se.	4	2			10 n						
Warsaw	29.35	745.5	29.76	755.9	67.8	19.9	79	s.	11	5			10 ks						Astronomical Obs'y.
Wilna	29.37	746.0	29.77	756.2	69.8	21.0	76	s.	4	2			10			0.134	3.4	heavy cl'ds	Berg, Assistant.
Yeniseisk	29.90	759.4	30.17	766.4	78.1	25.6	90	w.	2	1			0			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.20	767.1	55	12.8	93	nw.			6		10			0	0	hazy	J. Youngclause.
North Unst			29.81	757.2				nw.			7		9						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.96	761.0	30.06	763.5	82.9	28.3	62	se.	2.5	1.1		0	0			0	0	misty	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.25	768.4	30.31	769.9	74.7	23.7	74	nw.	3.6	1.6			10			0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.28	692.9	30.13	765.2	77.4	25.2	37	e.	7.6	3.4		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.95	709.8	30.03	762.8	91.4	33.0	30	n.	3.8	1.7		7	0	ese.		0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.95	760.7	30.07	763.8	90.1	32.3	49	sse.	2.2	1.0		3	0	w.		0	0		Olayo Diaz, Director
Oviedo	29.49	749.1	30.37	771.4	65.3	18.5	87	nw.	4.2	1.9			10 n			0	0	cloudy	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.25	742.9	30.10	764.6	82.0	27.8	45	nne.	16.1	7.2		0	0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.97	761.3	30.04	763.0	78.8	26.0	85	e.	0	0		c	0			0.10	2.5	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.73	755.2	29.79	756.6	82.7	28.2	76	sw.	38.5	17.2		3 c	4 ks	ne.	ne.	0.157	4.0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.8	30.09	764.2	88.9	31.6	29	wnw.	4.9	2.2		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.03	762.7	30.12	765.0	79.9	26.6	89					3 cs	1 k	e.	se.	0	0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.50	749.3	29.63	752.6	84.0	28.9	79	ssw.	7.2	3.2			10 ks		sw.	0	0	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.60	751.8	29.64	752.8	62.2	16.8	79	s.			4		8			0	0		
Umea	29.48	748.9	29.54	750.2	61.9	16.6	85	s.			4		10			0.346	8.8		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Swedish—Continued.																			
Hernosand	29.40	746.8	29.45	748.1	58.3	14.6	96	se.			2		10			0.134	3.4		
Stockholm	29.23	742.5	29.41	747.0	66.9	19.4	64	s.			6		8			0.248	6.3		
Wisby	29.42	747.2	29.48	748.7	66.6	19.2	72	sw.			6		5			0.079	2.0		
Sub-series.																			
Upsala	29.26	743.3	29.35	745.5	68.2	20.1	57	s.	14.8	6.6			8		ssw.	0.378	9.6	raining	S. G. Fineman.
Swiss.																			
Geneva	28.74	729.9	30.11	764.7	73.2	22.9	49	ssw.			4		5			0	0	cloudy	The Observatory
Turkish.																			
Constantinople			29.83	757.6	82.8	28.2	60	n.	20	8.9			6		ne.	0	0		The Observatory.
Valona			30.04	762.9	82.6	28.1		nw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.76	756.0	86.0	30.0	70	nnw.			2	7 c	0	ne.		0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.98	761.5	30.06	763.5	73	22.8	71	e.	4	1.8		2 ck	4 ks		s.	inap.	inap.	fair	J. O. Barnes.
Alpena, Michigan	29.37	746.0	30.01	762.2	63	17.2	93	e.	10	4.5			10 n			0.16	4.1	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.14	638.5	29.86	758.4	64	17.8	52	ne.	4	1.8		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.25	692.1	30.00	762.0	65	18.3	24	s.	3	1.3		1 c	0	sw.		0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.79	731.3	29.94	760.5	72.0	22.2	97	s.	2	0.9			10 s			0.01	0.3	cloudy	H. Hall.
Atlantic City, New Jersey	29.96	761.0	29.97	761.2	70.6	21.4	94	e.	13	5.8			10 s			1.63	41.4	cloudy	Jas. M. Watson.
Augusta, Georgia	29.77	756.1	29.96	761.0	76	24.4	90	calm	0	0			10 s		sw.	0.31	7.9	cloudy	John Healy.
Baltimore, Maryland	29.95	760.7	30.00	762.0	70	21.1	94	ne.	5	2.2			10s;fg		ne.	0.13	3.3	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.88	758.9	29.90	759.4	71.5	21.9	86	e.	14	6.3			10 k		s.	0.83	21.1	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.57	725.7	30.11	764.8	60	15.6	87	calm	0	0		0	1 s			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.26	692.4	30.05	763.3	63	17.2	63	w.	2	0.9		0	1 k			0	0	clear	S. Wheaton.
Behring Island, Behring Sea	29.78	756.4	29.80	756.9	47.0	8.3		sw.	2	0.9			fg.			0.02	0.5	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.35	720.1	30.10	764.5	61	16.1	90	e.	8	3.6		1 cs	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.01	762.2	30.04	763.3	68	20.0	90	n.	2	0.9		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.18	690.4	29.93	760.2	67	19.4	53	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.86	758.4	30.01	762.2	67.0	19.4	70	w.	5	2.2		4 c	hz.	w.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.86	758.4	29.90	759.4	80.8	27.1	85	s.	1	0.4		2 c	2 s			0	0	fair	M. McCarty.
Buffalo, New York	29.28	743.7	30.01	762.2	68.5	20.3	78	ne.	8	3.6		6 cs	4 ks	w.	ne.	0	0	cloudy	Clarence Weaver.
Buford, Fort, Dakota	28.13	714.5	30.07	763.8	63	17.2	73	e.	7	3.1		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.74	755.4	30.03	762.7	70.0	21.1	66	s.	6	2.5		3 cs	0	nw.		0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.49	749.0	29.88	758.9	73.8	23.2	86	n.	4	1.8		4 c	0	w.		0	0	fair	W. H. Ray.
Campo, California	27.42	696.5	29.92	760.0	57.4	14.1	86	w.	1	0.4		4 c	0			0	0	fair	W. H. Clendenon
Cape Henry, Virginia	29.94	760.5	29.96	761.0	74	23.3	90	n.	3	1.3		4 c	0			0.11	2.8	fair	A. K. Alderson.
Cape May, New Jersey	29.92	760.0	29.95	760.7	72.3	22.4	96	e.	14	6.3			10 s		e.	2.29	58.2	cloudy	W. E. Smith.
Cape Mendocino	29.58	751.3						n.	10	4.5			10 ks		n.	0	0	cloudy	J. R. Williams.
Cedar Keys, Florida	29.96	761.0	29.98	761.5	80	26.7	82	s.	8	3.6			10 ks		s.	2.97	75.4	cloudy	F. W. Mixer.
Champaign, Illinois	29.03	737.3	29.82	757.4	68.1	20.1	87	n.	3	1.3			10 s		n.	0.09	2.3	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.90	759.4	29.95	760.7	78	25.6	90	sw.	4	1.8			10 n		sw.	0.89	22.6	light rain	J. H. Smith.
Charlotte, N. Carolina	29.08	738.6	29.90	759.4	75.0	23.9	90	s.	1	0.4			10 s		s.	0.60	15.2	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.12	739.6	29.93	760.2	70.5	21.4	96	calm	0	0			fg.			0.11	2.8	dense fog	B. L. Goulding.
Cheyenne, Wyoming	24.27	616.4	29.97	761.2	57.3	14.1	72	w.	4	1.8		0	1 s			inap.	inap.	clear	E. McGovern.
Chicago, Illinois	29.13	739.9	29.82	757.4	68.7	20.4	91	n.	3	1.3			10 s			0.05	1.3	cloudy	J. Mitchell.
Chincoteague, Virginia	29.92	760.0	29.94	760.5	70	21.1	100	n.	3	1.3			fg.			0.71	18.0	dense fog	C. F. Dickens.
Cincinnati, Ohio	29.23	742.4	29.87	758.7	74.3	23.5	84	se.	3	1.3			10 s		se.	0.39	9.9	cloudy	J. F. Harrold.
Cleveland, Ohio	29.23	742.4	29.95	760.7	65.6	18.7	91	s.	6	2.7			10 n		s.	0.29	7.4	light rain	J. B. Newlin.
Coleman City, Texas	28.16	715.3	29.90	759.4	74	23.3	82	sw.	3	1.3		10 cs	0			0	0	cloudy	L. Dorman.
Columbus, Ohio	29.05	737.9	29.88	758.9	71	21.7	84	e.	9	4.0		7 ck	3 s	sw.		0.10	2.5	cloudy	D. Cuthbertson.
Concho, Texas	28.04	712.2	29.90	759.4	73	22.8	76	sw.	4	1.8		4 c	2 s		s.	0	0	fair	W. W. McConthe.
Custer, Fort, Montana	26.92	683.8	29.98	761.5	74	23.3	42	w.	4	1.8		0	5 s		calm	0	0	fair	W. B. Lamar.
Davenport, Iowa	29.23	742.4	29.86	758.4	67	19.4	90	n.	9	4.0		5 k	4 s	n.	n.	0.01	0.3	cloudy	R. R. Martin.
Davis, Fort, Texas	25.23	640.8	29.88	758.9	67	19.4	70	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.28	718.3	29.99	761.7	55	12.8	72	calm	0	0		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.55	649.0	29.98	761.5	65	18.3	70	sw.	3	1.3		3 c	0	w.		0	0	clear	G. W. Scott.
Decatur, Texas					75	23.9	52	se.	6	2.7		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del	29.94	760.5	29.96	761.0	69	20.6	100	ne.	4	1.8			fg.			2.31	58.7	dense fog	T. S. Townsend.
Denison, Texas	29.14	740.1	29.92	760.0	70.0	21.1	90	nw.	2	0.9			10 s			0.19	4.8	cloudy	J. McGlone.
Denver, Colorado	24.95	633.7	29.97	761.2	65.5	18.6	72	nw.	8	3.6		4 ck	0	w.		0	0	fair	F. M. Neal.
Des Moines, Iowa	29.08	738.6	29.96	761.0	63	17.2	90	n.	6	2.7			10 s		n.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.23	742.4	29.92	760.0	70.8	21.6	84	se.	10	4.5			10 n		se.	0.17	4.3	light rain	C. F. R. Wappenhans.
Dodge City, Kansas	27.52	699.0	30.00	762.0	60	15.6	84	n.	7	3.1		0	1 s		n.	0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.19	741.4	29.88	758.9	65.7	18.7	87	n.	7	3.1			10 s			0.22	5.6	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.37	746.0	30.09	764.3	62	16.7	78	ne.	2	0.9		0	6 s		ne.	0	0	fair	N. B. Conger.
Eagle Pass, Texas	29.15	740.4	29.94	760.5	78.1	25.6	77	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.43	645.9	29.98	761.5	53	11.7	48	s.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.88	758.9	29.95	760.7	67.0	19.4	73	nw.	8	3.6		2 k	0	nw.		0.03	0.8	clear	D. C. Murphy.
Elliott, Fort, Texas	27.29	693.2	29.93	760.2	63	17.2	63	n.	8	3.6		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.31	668.3	29.91	759.7	67	19.4	66	e.	1	0.4		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.25	742.9	29.96	761.0	69	20.6	78	se.	3	1.3			10 s			0.01	0.3	cloudy	Peter Wood.
Escanaba, Michigan	29.36	745.7	30.00	762.0	64	17.8	93	ne.	14	6.3			10 s		ne.	0.30	7.6	cloudy	George Heathcote.
Fredericksburg, Texas	28.26	717.8	29.97	761.2	78	25.6	82	calm	0	0		3 cs	0			0	0	fair	Frank Halwegler.
Galveston, Texas	29.87	758.7	29.92	760.0	78	25.6	88	s.	5	2.2		10 cs	0	ne.		0.35	8.9	cloudy	E. O'C. Macnemey.
Grand Haven, Michigan	29.21	741.9	29.86	758.4	68.0	20.0	93	e.	10	4.5			10 s		e.	1.08	27.4	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.30	642.6	29.87	758.7	75.3	24.1	45	e.	4	1.8		0	0			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	29.94	760.5	29.96	761.0	79	26.1	91	nw.	8	3.6		hz.	7 ks		nw.	0.05	1.3	fair	R. M. Crawford.
Helena, Montana	25.92	658.4	30.01	762.2	62	16.7	63	w.	3	1.3		0	0			inap.	inap.	clear	N. C. Smith.
Henrietta, Texas	28.97	735.8	29.97	761.2	74.0	23.3	82	ne.	6	2.7		0	1 s			0	0	clear	J. W. Byram.
Huron, Dakota	28.74	730.0	30.08	764.0	57.7	14.3	87	nw.	4	1.8		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.06	738.1	29.83	757.7	70	21.1	93	n.	1	0.4			fg.			0.34	8.6	dense fog	O. Schutze
Indianola, Texas	29.92	760.0	29.95	760.7	79.0	26.1	91	ne.	8	3.6		3 cs	5 ks	ne.	sw.	0	0	threatening	I. A. Reed.
Jacksboro, Texas	28.76	730.5	29.88	758.9	74	23.3	90	sw.	3	1.3		3 c	2 k		n.	0.10	2.5	fair	J. P. Sherry.
Jacksonville, Florida	29.94	760.5	29.98	761.5	81	27.2	79	sw.	10	4.5		2 cs	8 s		sw.	0.02	0.5	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.57	700.3	30.00	762.0	67	19.4	75	se.	2	0.9		1 c	0			inap.	inap.	clear	A. Schneider.
Keokuk, Iowa	29.22	742.2	29.85	758.2	66.0	18.9	97	n.	6	2.7			10 s		n.	inap.	inap.	cloudy	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	84.0	28.9	72	ne.	2	0.9		0	0			0.12	3.0	clear	R. H. Paxton.
Kittyhawk, North Carolina	29.96	761.0	29.98	761.5	75	23.9	97	ne.	6	2.7		0	8 ks		w.	0.51	13.0	cloudy	E. A. Beals.
Knoxville, Tennessee	28.92	734.6	29.93	760.2	69.9	21.1	100	se.	2	0.9			10s;fg		sw.	0.05	1.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.18	741.2	29.93	760.2	66	18.9	78	n.	12	5.4			10 s			0.04	1.0	cloudy	S. C. Emery
La Mesilla, New Mexico	26.17	664.7	29.89	759.2	64.3	17.9	64	calm	0	0		0	0			0	0	clear	N. D. Lane.
Leavenworth, Kansas	29.09	738.9	29.95	760.7	65	18.3	90	nw.	5	2.2		2 k	0	nw.		0	0	clear	A. W. Browne.
Lewiston, Idaho	29.18	741.2	29.98	761.5	66.0	18.9	54	se.	2	0.9		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.58	751.3	29.89	759.2	70	21.1	90	calm	0	0		0	2 ks			0.56	14.2	clear	W. U. Simons.
Los Angeles, California	29.60	751.8	29.99	761.7	61.3	16.3	78	n.	1	0.4		0	0			0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.28	743.7	29.83	757.7	72	22.2	90	calm	0	0			10s;fg			0.09	2.3	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.28	743.7	29.95	760.7	70	21.1	84	ne.	2	0.9			10 s		n.	inap.	inap.	cloudy	Lewis Duane.
Macon, Fort, North Carolina	29.95	760.7	29.96	761.0	78	25.6	90	nw.	1	0.4		4 c	6 ks		w	0.13	3.3	cloudy	F. P. Chaffee.
Madison, Wisconsin	28.91	734.3	29.89	759.2	63	17.2	93	n.	11	4.9			10 n			0.05	1.3	light rain	C. A. Shaw.
Maginnis, Fort, Montana	25.74	653.8			62	16.7	47	w.	6	2.7		1 k	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.77	705.3	29.98	761.5	67	19.4	78	se.	5	2.2		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.36	745.7	30.07	763.8	60	15.6	87	nw.	8	3.6			10 s		nw.	0.27	6.9	cloudy	J. Gilligan.
Memphis, Tennessee	29.55	750.6	29.88	758.9	70	21.1	94	w.	4	1.8		1 cs	8 ks		w.	0.11	2.8	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.11	739.4	29.84	757.9	66	18.9	100	e.	6	2.7			10 n			1.78	45.2	heavy rain	W. Line.

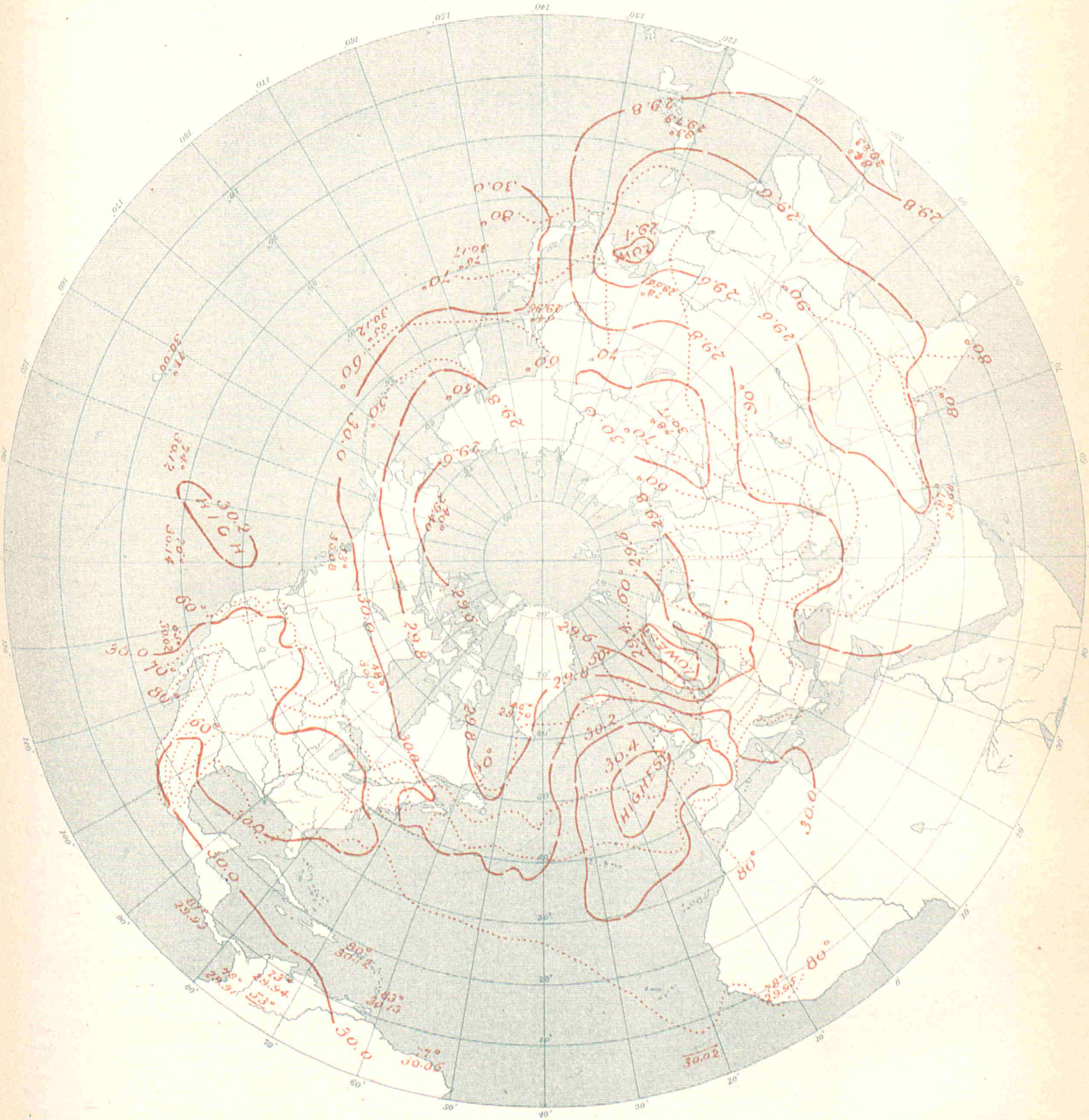
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec.	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.82	681.2	30.04	763.0	62	16.7	73	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	29.88	758.9	29.92	760.0	74	23.3	84	sw.	2	0.9	.....	1 cs	0	.....	.....	0.24	6.1	clear	C. A. Read.
Montgomery, Alabama	29.68	753.9	29.91	759.7	77	25.0	85	sw.	4	1.8	.....	1 c	2 ks	.....	w.	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.14	740.1	30.10	764.5	60.1	15.6	87	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.96	735.6	29.90	761.0	71.5	21.9	84	se.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H	24.03	610.4	30.11	764.8	54.0	12.2	83	calm	0	0	.....	1 cs	sk.	nw.	.....	0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.30	744.2	29.86	758.4	72.5	22.5	87	e.	3	1.3	.....	4 cs	6 ks	sw.	w.	0.05	1.3	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.92	760.0	30.03	762.7	64	17.8	93	ne.	1	0.4	.....	0	sk.	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	29.98	761.5	30.03	762.7	69	20.6	78	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.85	758.2	29.90	759.4	78.8	26.0	89	s.	1	0.4	.....	0	sk.	.....	.....	0.45	11.4	clear	L. Dunne.
Newport, Rhode Island	29.98	761.5	30.03	762.7	69.3	20.7	83	sw.	1	0.4	.....	1 c	0	.....	.....	0	0	clear	W. McGillivray.
New York, New York	29.88	758.9	30.05	763.3	70	21.1	84	ne.	12	5.4	.....	0	fg.	.....	ne.	0.13	3.3	clear	J. B. Merrill.
Norfolk, Virginia	29.93	760.2	29.96	761.0	78	25.6	82	n.	1	0.4	.....	3 c	2 k	w.	.....	0.08	2.0	fair	Wm. Davis.
North Platte, Nebraska	27.25	692.1	30.05	763.3	60.6	15.9	92	e.	4	1.8	.....	0	5 s	.....	.....	0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.05	763.5	30.10	764.5	57.0	13.9	93	w.	1	0.4	.....	5 k	0	s.	.....	0.04	1.0	fair	J. Dascomb.
Ogdlaamie, Pt. Barrow, Alas.	26.49	749.0	29.50	749.3	40.4	4.7	.....	wsw.	24	10.7	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	P. H. Ray.
Omaha, Nebraska	28.87	733.3	30.01	762.2	63.0	17.2	93	n.	6	2.7	.....	.....	10 ks	.....	n.	0	0	cloudy	A. Pollak.
Oswego, New York	29.72	754.9	30.04	763.0	73.0	22.8	64	e.	3	1.3	.....	7 cs	0	sw.	.....	inap.	inap.	fair	S. W. Beall.
Palestine, Texas	29.44	747.8	29.98	761.5	70.0	21.1	84	w.	6	2.7	.....	6ck;cs	0	n.	.....	0.09	2.3	fair	L. M. Pindell.
Pensacola, Florida	29.90	759.4	29.93	760.2	75.0	23.9	90	calm	0	0	.....	4 cs	0	.....	.....	inap.	inap.	fair	M. McGauran.
Philadelphia, Pa	29.92	760.0	30.02	762.5	70.5	21.4	90	ne.	1	0.4	.....	.....	10ks; hz	.....	ne.	0.68	17.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.15	461.0	29.94	760.5	38	3.3	72	sw.	2	0.9	.....	0	2 s	.....	sw.	inap.	inap.	clear	L. M. Dey.
Ploche, Nevada	24.19	614.4	29.80	759.2	64.4	18.0	58	s.	3	1.3	.....	1 k	0	s.	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.14	740.1	29.93	760.2	67.3	19.6	84	ne.	3	1.3	.....	4 ck	0	w.	.....	0	0	fair	J. B. Turton.
Poplar River, Montana	27.97	710.4	.....	.....	.....	.....	.....	sw.	.....	.....	1	0	0	.....	.....	0.20	5.1	clear	W. D. Maxwell.
Port Eads, Louisiana	29.03	760.2	29.94	760.5	78.0	25.6	90	w.	1	0.4	.....	0	0	.....	.....	0.02	0.5	clear	M. Hermann.
Port Huron, Michigan	29.26	743.2	29.92	760.0	66.3	19.1	93	e.	2	0.9	.....	.....	10 s	.....	e.	0.11	2.8	cloudy	W. O. Bailey.
Portland, Maine	29.92	760.0	29.97	761.2	76.0	24.4	60	nw.	4	1.8	.....	2 c	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.03	762.7	30.10	764.5	60.0	15.6	81	w.	3	1.3	.....	.....	10 s	.....	sw.	0	0	cloudy	M. L. Hearne.
Prescott, Arizona	24.90	632.4	29.88	758.9	62	16.7	60	s.	2	0.9	.....	0	0	.....	.....	0.02	0.5	clear	J. Mc N. Wright.
Provincetown, Mass	29.98	761.5	30.01	762.2	70	21.1	76	w.	5	2.2	.....	2 cs	1 s	nw.	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.01	762.2	30.02	762.5	82.5	28.1	72	sw.	8	3.6	.....	1 c	0	calm	.....	0.01	0.3	clear	W. J. Evans.
Red Bluff, California	29.65	753.1	30.01	762.2	66.2	19.0	55	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.71	754.6	29.95	760.7	81	27.2	74	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Rochester, New York	29.37	746.0	30.02	762.5	66	18.9	90	se.	8	3.6	.....	.....	10k; hz	.....	se.	0.01	0.3	cloudy	E. W. McGann.
Roseburg, Oregon	29.58	751.3	30.12	765.0	58.8	14.9	70	e.	3	1.3	.....	0	8 ks	.....	s.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.94	760.5	30.01	762.2	61.4	16.3	84	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.29	744.0	29.87	758.7	68.0	20.0	97	nw.	4	1.8	.....	3 c	hz.	sw.	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.17	740.9	30.01	762.2	64.0	17.8	90	n.	12	5.4	.....	.....	10 s	.....	n.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.29	744.0	30.14	765.5	57	13.9	93	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.73	653.5	29.92	760.0	67	19.4	53	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.26	743.2	29.95	760.7	75.0	23.9	90	calm	0	0	.....	0	1 s	.....	calm	0	0	clear	T. J. Kenan.
San Diego, California	29.89	759.2	29.96	761.0	65.8	18.8	91	sw.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.24	742.7	29.90	759.4	69.8	21.0	93	e.	8	3.6	.....	.....	10 s	.....	e.	1.86	47.2	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.00	762.0	30.02	762.5	70.0	21.1	90	ne.	12	5.4	.....	1 k	0	ne.	.....	0.26	6.6	clear	B. A. Blundon.
San Francisco, California	30.01	762.2	30.08	764.0	57.5	14.2	93	s.	4	1.8	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.41	594.6	29.90	759.4	64	17.8	39	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.86	758.4	29.95	760.7	80.5	26.9	79	sw.	5	2.2	.....	0	9 ks	.....	sw.	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.50	673.1	30.02	762.5	55	12.8	74	sw.	2	0.9	.....	0	0	.....	.....	0.01	0.3	clear	A. L. Mathews.
Shreveport, Louisiana	29.68	753.9	29.90	759.4	70	21.1	93	se.	1	0.4	.....	5c;ck	2 s	.....	.....	1.11	28.2	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.74	730.0	29.92	760.0	72	22.2	87	n.	8	3.6	.....	1 k	0	n.	.....	0.02	0.5	clear	T. Cleary.
Silver City, New Mexico	24.38	619.2	29.84	757.9	59	15.0	54	w.	1	0.4	.....	2 k	0	calm	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	30.02	762.5	30.08	764.0	52.5	11.4	86	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. J. McLean.
Smith, Fort, Arkansas	29.44	747.8	29.90	759.4	70.8	21.6	84	n.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	J. B. Campbell.
Smithville, North Carolina	29.92	760.0	29.96	761.0	81	27.2	79	sw.	9	4.0	.....	1 c	8 ks	.....	sw.	0.15	3.8	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.04	712.2	30.04	763.0	55	12.8	74	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.19	741.4	29.85	758.2	66.5	19.2	92	nw.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	T. B. Jennings.
Springfield, Massachusetts	29.92	760.0	30.06	763.5	63.2	17.3	93	s.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	T. S. Outram.
Springfield, Mo	28.53	724.6	29.92	760.0	65	18.3	87	n.	4	1.8	.....	hz	0	.....	.....	0	0	clear	J. B. Marbury.
Starkville, Miss	29.41	747.0	29.88	758.9	79	26.1	88	sw.	4	1.8	.....	.....	10 ks	.....	sw.	0	0	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.31	719.1	30.09	764.3	61	16.1	93	se.	4	1.8	.....	0	3 s	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.00	685.8	29.94	760.5	67.0	19.4	76	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thomas Camp	27.23	691.6	29.85	758.2	72.5	22.5	56	calm	.....	.....	0	0	0	.....	.....	0	0	clear	
Thatcher's Island, Mass	29.96	761.0	30.01	762.2	67.0	19.4	78	e.	2	0.9	.....	2 c	0	w.	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.21	741.9	29.88	758.9	70	21.1	87	se.	3	1.3	.....	.....	10 s	.....	sw.	0.52	13.2	cloudy	A. Buell.
Tucson, Arizona	27.54	699.5	29.88	758.9	77	25.0	66	se.	3	1.3	.....	1 c	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.67	753.6	30.03	762.7	65	18.3	68	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	28.98	736.1	29.92	760.0	75	23.9	82	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	68.1	20.1	61	w.	.....	.....	1	0	0	.....	.....	0.25	6.3	clear	D. Brooks.
Vicksburg, Mississippi	29.68	753.9	29.92	760.0	72	22.2	90	n.	6	2.7	.....	1 ck	6 s	.....	n.	0.07	1.8	cloudy	James Kenealy.
Visalia, California	29.62	752.3	30.00	762.0	65	18.3	73	nw.	2	0.9	.....	1 cs	0	.....	.....	0	0	clear	W. L. Seward.
Washakie, Fort, Wyoming	24.60	627.1	30.03	762.7	61.9	16.6	56	se.	7	3.1	.....	5 k	0	.....	.....	0	0	fair	T. M. Ambler.
Washington, D. C	29.88	758.9	29.98	761.5	70.4	21.3	91	ne.	5	2.2	.....	.....	10 s	.....	ne.	0.03	0.8	cloudy	F. M. M. Beall.
West Las Animas, Colorado	26.18	665.0	29.93	760.2	65.2	18.4	78	n.	14	6.3	.....	0	4 k	.....	nw.	0	0	fair	F. H. Brandenburg.
Williamsport, Pa	29.44	747.8	30.02	762.5	68	20.0	81	e.	5	2.2	.....	.....	10 s	.....	.....	0.10	2.5	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.91	759.7	29.96	761.0	79	26.1	88	calm	0	0	.....	0	8ks; fg	.....	w.	0.04	1.0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.71	653.0	29.94	760.5	57	13.9	42	sw.	10	4.5	.....	3 ck	0	sw.	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.80	731.5	30.07	763.8	62	16.7	72	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Attfield.
Yuma, Arizona	29.68	753.9	29.82	757.4	82.2	27.9	72	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Colombia	22.07	560.6	.....	.....	53.0	11.7	66	sw.	5	2.2	.....	4 k	6 n; s	n.	nw.	0.06	1.5	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.12	765.0	30.13	765.3	83	28.3	95	e.	.....	.....	.....	5 k	10 ks	.....	.....	0	0	cloudy	J. A. Racker.
Buenaventura, U. S. C	29.88	758.9	29.91	759.7	78	25.6	90	calm	0	0	.....	.....	10 ks	.....	s.	0	0	cloudy	J. I. Plume.
Havana, Cuba†	29.97	761.2	30.03	762.7	80	26.7	82	se.	1.2	0.5	.....	0	0	.....	.....	0.23	5.8	clear	Robert Johnston.
Kingston, Jamaica, W. I	30.01	762.2	30.02	762.5	81.8	27.7	71	calm	0	0	.....	4 c; cs	0	e	.....	0	0	fair	S. M. Pike.
Magua, San Domingo, W. I	.....	.....	.....	.....	74	23.3	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	F. M. Everett.
Navassa	29.98	761.5	30.06	763.5	82	27.8	78	e.	7	3.1	.....	5 cs	3 k	e.	se.	0	0	cloudy	Chas. Hasselbrink.
Paramaribo, S. A	30.06	763.5	30.05	763.5	77	25.0	91	e.	.....	.....	1	5 ck	4 s	e.	.....	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.38	746.2	29.94	760.5	73	22.8	84	calm	.....	.....	0	1 cs	0	calm	.....	0	0	clear	Francisco J. Cisneros.
Rivas, Nicaragua, C. A	.....	.....	.....	.....	.....	.....	96	ne.	.....	.....	2	1 ck	5 ks	se.	ne.	0.21	5.3	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. J. Fisher.
St. Thomas, W. I	29.97	761.2	30.10	764.5	81	27.2	82	ne.	.....	.....	.....	3 ck	4 k	e.	ne.	0	0	fair	Aug. Wallon.
York Factory, B. A	29.05	760.7	30.01	762.2	48.0	0.4	92	n.	14	6.3	.....	0	0	.....	.....	0	0	clear	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, N. 11° 50′, W. 25° 56′	30.04	763.0	79.5	26.4	77	nnw.			1-2		7							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.86	758.4	81	27.2	82	nw.			1		4					2	wnw.	d. clouds.
H. M. S. Amethyst, S. 27° 27′, W. 48° 34′	30.41	772.4	61.5	16.4	82	e.			1		8							d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.83	757.7	79	26.1		n.			3		5	n.						d. clouds.
H. M. S. Arab, Muscat, Arabia	29.58	751.3	87	30.6	75	calm			0		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.23	767.8	59.5	15.3		ese.			1-2		0							blue sky.
H. M. S. Champion, Hakodate, Yezo, Japan			73	22.8	100	nnw.			2		2							d. clouds.
H. M. S. Comus, Esquimalt, Vancouver Island	30.03	762.7	56	13.3	74	calm			0		3							d. clouds.
H. M. S. Diamond, S. 9° 21′, E. 159° 15′	29.84	757.9	81	27.2	86	sse.			1		9					1	sse.	d. clouds.
H. M. S. Dido, N. 17° 00′, W. 62° 00′	30.08	764.0	82	27.8		e.			1		3	e.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.06	763.5	78.5	25.8	69	ne.			2-3		6	ne.						d. clouds.
H. M. S. Druid, N. 48° 39′, W. 26° 24′	30.36	771.1	61.5	16.4	100	se.			3		10					2	se.	drizzling.
H. M. S. Emerald, N. 32° 40′, W. 30° 40′	30.23	767.8	75.5	24.2	100	calm			0		5	ne.				3	ene.	d. clouds.
H. M. S. Espiegle, S. 15° 08′, E. 167° 27′	29.96	761.0	78	25.6	86	se.			2		5	e.				1	se.	d. clouds.
H. M. S. Fantome, N. 12° 51′, W. 70° 08′	29.99	761.7	84	28.9		ese.			4		4	ese.				2	ese.	d. clouds.
H. M. S. Flying Fish, N. 37° 11′, E. 126° 16′	29.40	746.7	73.5	23.1	97	e.			2-3		10					2	ne	overcast.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	29.99	761.7	58	14.4	90	sse.			1-2		10							drizzling.
H. M. S. Garnet, N. 34° 40′, W. 30° 30′	30.30	769.6	78	25.6	73	e.			1		6					1	nnw	d. clouds.
H. M. S. Griffon, N. 47° 34 W. 59° 10′	29.91	759.7	55.5	13.1	74	calm			0		7	e.				1	e.	d. clouds.
H. M. S. Iron Duke, N. 49° 20′, E. 139° 25′	29.96	761.0	64	17.8	89	calm			0		6							d. clouds.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.94	760.5	76.3	24.6	92	ese.			2		10					2	se.	thnd'rstorm.
H. M. S. Liffey, Coquimbo, Chili	29.97	761.2	56	13.3		calm			0									d. clouds.
H. M. S. Magpie, N. 35° 07′, E. 128° 40′	29.62	752.3	79.2	26.2	86	se.			2		8							misty.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.84	757.9	80.5	26.9	78	nw.			2		1							blue sky.
H. M. S. Northampton, Halifax, Nova Scotia	29.95	760.7	61.5	16.4	91	calm			0		9							misty.
H. M. S. Orontes, N. 36° 52′ E. 1° 50′	30.16	766.1	76.5	24.7	100	ene.			2		0					1	ene.	blue sky.
H. M. S. Pegasus, N. 5° 24′, E. 100° 20′	29.83	757.7	84	28.9	79	calm			0		10							d. clouds.
H. M. S. Rambler, S. 11° 48′, W. 10° 28′	30.09	764.3	72	22.2	100	ese.			4		1					4	se.	blue sky.
H. M. S. Sappho, Off Mawi, Sandwich Islands	30.00	762.0	77	25.0	82	n.			3		6					3	e.	drizzling.
H. M. S. Swiftsure, Sandy Point, Patagonia	29.63	752.6	39	3.9	91	calm			0		4							d. clouds.
H. M. S. Tenedos, N. 51° 10′ W. 56° 00′	29.90	759.4	53	11.7	93	calm			0		10							overcast.
H. M. S. Triumph, Sandy Point, Patagonia	29.66	753.4	36	2.2	90	sse.			1-2		9	calm						squally.
H. M. S. Tyne, N. 36° 55′, W. 10° 04′	30.11	764.8	68	20.0	92	nnw.			3		6	nnw.				2	nne.	d. clouds.
H. M. S. Woodlark, Jask, Persia	29.47	748.5	93.5	34.2	67	w.			4-5		1	w.				3-4	w.	blue sky.
H. M. S. Zephyr, N. 43° 11′, E. 139° 54′	29.96	761.0	74	23.3	81	e.			2		0					1	s.	
PORTUGUESE NAVAL.																		
Rio Lima, Bulama, Senegambia	30.07	763.8	81.5	27.5	88	nw.			1		8			8 h'r	8 h'r			showery.
Tamega, Macao, China	29.50	749.2	84.2	29.0	78	wsw.			5		8							d. clouds.
SWEDISH NAVAL.																		
Saga, N. 57° 35′, E. 8° 09′	29.42	747.2	61.7	16.5	94	w.			6		6							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.88	758.9	75	23.9	90	n.	9	4.0			5		ne.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.98	761.5	70	21.1	75	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.59	751.6	80	26.7	84	calm			0		0			0	0			clear.
Adams, Mare Island, Cal			65	18.3	73	sw.			2		0			0	0	sm'h		clear.
Alaska, S. 10° 16′, W. 87° 16′	30.00	762.0	64	17.8	78	e.			3		10		se.	0	0	long	s.	cloudy.
Alliance, Boston, Mass	30.00	762.0	68	20.0	84	w.			1		2			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan*	29.95	760.7	81	27.2	87	se.			2		2		sw.					clear.
Brooklyn, Rio de Janeiro, Brazil	30.40	772.1	62	16.7	94	wnw.	2	0.9			2		w.	0.03	0.8	sm'h		fair.
Colorado, New York, N. Y.	29.94	760.5	71	21.7	90	ne.	3	1.3			2			0.08	2.0			clear.
Constellation, New York, N. Y*	30.03	762.7	71	21.7	90	ene.			2		0					sm'h		clear.
Enterprise, Boston, Mass	30.17	766.3	69	20.6	84	sw.			1		0							clear.
Essex, N. 3° 52′, W. 72° 32′	30.06	763.5	55	12.8	93	ssw.			1		10		ssw.			sm'h	nw.	foggy.
Franklin, Norfolk, Va	29.97	761.2	76	24.4	91	n.	1.4	0.6			5		nnw.	0	0			fair.
Galena, N. 33° 56′, W. 11° 30′	30.16	766.1	71	21.7	100	n.			3		2		nw.			mod.	n.	fair.
Independence, Mare Island, Cal	30.08	764.0	60	15.6	94	sw.			2		2			0	0			clear.
Iroquois, N. 28° 26′ W. 117° 10′	30.02	762.5	65	18.3	84	nw.			3		10		nw.	0	0	sm'h	nw.	cloudy.
Kearsage, Norfolk, Va	29.94	760.5	77	25.0	91	ne.			1		10							cloudy.
Lackawanna, Callao, Peru*	29.95	760.7	66	15.6	88	s.			1		10							misty.
Lancaster, Villafranca, France*	29.92	760.0	80	26.7	78	e.			2		0			0	0			clear.
Marion, S. 34° 54′, W. 56° 13′	30.22	767.6	55	12.8	100	ne.			5		10		ne.	0	0	sm'h		cloudy.
Michigan, Sturgeon Bay, Wisconsin	29.98	761.5	73	22.8	90	e.			1		10		e.					raining.
Minnesota, Newport, R. I	30.07	763.8	68	20.0	90	calm	0	0			0							clear.
Monocacy, Che Foo, China*	29.35	745.5	73	22.8	76	nne.			3		8		nne.			long	ne.	fair.
New Hampshire, Newport, R. I	30.09	764.3	70	21.1	85	calm			0		0					sm'h		clear.
Nipsic, Cagliari, Sardinia*	29.98	761.5	78	25.6	69	s.			2		0					sm'h		clear.
Onward, Callao, Peru†	30.11	764.8	58	14.4	94	sse			1		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.81	757.2	81	27.2	78	ene.			4		5		ene.					fair.
Passaic, Washington, D. C	29.99	761.7	70	21.1	?	ne.			2		10							cloudy.
Pensacola, Panama, Panama*	29.80	756.9	78	25.6	95	nw.	3	1.3			8		nnw.	0	0	sm'h		cloudy.
Portsmouth, Genoa, Italy*	29.89	759.2	75	23.9	81	sse.			3		2		s.			sm'h		fair.
Powhatan, N. 34° 34′ W. 75° 39′	29.99	761.7	79	26.1	91	wnw.			3		8		w.			long	w.	cloudy.
Quinnebang, Alexandria, Egypt*	29.82	757.4	80	26.7	82	nnw.			4		0					sm'h		clear.
Ranger, Mare Island, Cal	30.07	763.8	61	16.1	82	sw.			3		0			0	0			clear.
Richmond, Yokohama, Japan*	29.97	761.2	82	27.8	87	s.			1					0	0			clear.
Saratoga, Genoa, Italy	29.80	756.9	81	27.2	96	sse.			1		2		se.	0	0	sm'h		clear.
St. Louis, League Island, Pa	30.20	767.1	68	20.0	70	ne.			2		10			0.78	19.8			cloudy.
Swatara, Kobe, Japan*	29.69	754.1	81	27.2	83	ene.			4		5		e.			mod.	e.	fair.
Tennessee, Boston, Mass	30.03	762.7	69	20.6	85	w.	3.5	1.6			0			0	0			hazy.
Vandalia, Portsmouth, N. H*	29.99	761.7	66	18.9	100	nw.			1		0							clear.
Wabash, Boston, Mass	30.01	762.2	69	20.6	70	wnw.	3	1.3			2		n.	0	0			clear.
Wachusetts, Sitka, Alaska †	30.29	769.4	52	11.1	100	wsw.			1		10		calm			sm'h		foggy.
Wyoming, Port Royal, S. C*	29.92	760.0	75	23.9	90	wsw.	12	5.4			8		wsw.	0	0			cloudy.
Yantic, Boston, Mass	30.22	767.6	69	20.6	86	nnw.			1		2							clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 52° 30′, W. 53° 43′*	29.73	755.0	43	6.1	100	n.			5		10		nne.	0	0	3	n.	foggy.
S. S. Grecian, Glasgow, Scotland*	30.15	765.8	61	16.1		wnw.			5		6		wnw.					cloudy.
S. S. Scandinavian, Pladda, Scotland	29.97	761.2	58	14.4		nw.			5		5		nw.	0	0			d. clouds.
S. S. Waldensian, N. 46° 10′, W. 49° 14′*	29.88	758.9	67	19.4		s.			1		10		ssw.	0	0	mod.	ssw.	hazy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, off Kinsale Head, Ireland †	30.42	772.7	60	15.6		nnw.			4		10		nnw.	0	0	sm'h		fine.
S. S. Indiana, N. 40° 03′, W. 52° 49′†	30.23	767.8	75	23.9	90	nw.			3		2		w.			chop	w.	fine.
S. S. Lord Clive, off Cape May, N. J.*†	29.90	759.4				ese.			4		9		ese.	7 h'r	7 h'r	sm'h		misty.
S. S. Lord Gough, Liverpool, Eng	30.18	766.6	62	16.7		wnw.			5		8		nw.	0	0	chop	w.	cloudy.
S. S. Ohio, Philadelphia, Pa.†	29.92	760.0	72	22.2	90	e.			3		9		e.					cloudy.
AMSTERDAM LINE.																		
S. S. Stella, N. 49° 00′ W. 36° 01′	30.13	765.4	69.8	21		s.			3		6		ssw.	0	0	3	ssw.	foggy.
ANCHOR LINE.																		
S. S. Alexandria, Messina, Sicily	30.05	763.3	79	26.1		w.			3		3		w.	0	0			clear.
S. S. Assyria, N. 42° 13′, W. 55° 56′*†	29.93	760.2	64	17.8		wnw.			3		10		w.	½ h'r	½ h'r	sm'h		cloudy.
S. S. Devonia, N. 43° 32′, W. 46° 55′†	29.98	761.5	60	15.6		wnw.			1		0		n.			light	n.	fair.
S. S. Dorian, N. 41° 49′, W. 42° 34′*	29.72	754.9	68	20.0		n.			6		4		n.	3 h'r	3 h'r	mod.	ne.	fire.
S. S. Ethiopia, New York, N. Y.	30.03	762.7	73	22.8	90	ne.			3		4?		ne.	4 h'r	4 h'r			cloudy.?
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C†.	29.99	761.7	84	28.9	79	calm			0		5		ne.	0	0			fair.
S. S. Alene, Port au Paix, Hayti, W. I†	30.06	763.5												0	0			clear
S. S. Alpin, Aquadilla, Porto Rico, W. I	30.09	764.3				e.			1		1		se.	0	0			clear.
S. S. Alvo, N. 23° 26′, W. 74° 16′	30.05	763.3				ne.			3		3		ne.	0	0	sm'h		clear.
S. S. Antillas, N. 30° 47′, W. 70° 08′			82	27.8		se.			1				sse.	0	0	sm'h		clear.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 39° 47′, W. 1° 08′	30.25	768.3	56	13.3	94	nw.			4		8							overcast.
S. Baroda, S. 8° 10′, W. 8° 51′	30.13	765.3	74.5	23.6	68	se.			4		2							blue sky.
Bk. Caldew, S. 33° 26′ W. 19° 48′	29.82	757.4	60	15.6	82	nw.			5		8							d. clouds.
Bk. Commewyne, N. 38° 22′, W. 43° 50′	29.97	761.2	74.4	23.6	76	wnw.			4		8							d. clouds.
S. S. City of Agra, S. 39° 04′, W. 23° 15′	29.81	757.2	49.5	9.7	90	ese.			7		10							squally.
S. S. Minho, N. 18° 40′, W. 22° 11′	30.04	763.0	75.9	24.4	92	wnw.			2		6							d. clouds.
Bkt. May Hulse, N. 29° 10′, W. 38° 54′	30.17	766.3	79.4	26.3	69	ese.			1		5							d. clouds.
S. S. Mertola, N. 48° 19′, W. 7° 54′	30.37	771.4	62.3	16.8	85	nne.			4		4							clear.
S. Oamarn, S. 9° 14′, W. 12° 54′	30.11	764.8	74.8	23.8	81	e.			4		6							d. clouds.
S. S. Pole Star, N. 45° 25′, W. 29° 40′	30.32	770.1	67	19.4	100	sse.			5		9							misty.
CROMWELL LINE.																		
S. S. Hudson, N. 24° 23′ W. 82° 25′†	30.08	764.0	79	26.1		ne.			1		1		se.	1 h'r	1 h'r	mod.	s.	clear.
CUNARD LINE.																		
S. S. Marathon, Portsmouth, Eng	30.20	767.1	65	18.3		n.			3		10		n.	0	0	mod.	n.	fine.
S. S. Scythia, N. 40° 46′ W. 68° 25′	29.97	761.2	66	18.9	94	calm			0		0			5 h'r	5 h'r			fair.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Ville de Marseilles, N. 37° 03′, W. 12° 41′*†	30.10	764.5	72	22.2		nnw.			4		3		nw.	0	0			clear.
GUION LINE.																		
S. S. Wisconsin, N. 41° 30′, W. 61° 30′	29.97	761.2	72	22.2		wnw.			3		5		nw.	0	0	sm'h		fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Herder, N. 52° 23′, E. 2° 59′			60	15.6		nw.			6		6		w.	3 h'r	3 h'r	r'gh	nw.	cloudy.
S. S. Silesia, N. 52° 08′, E. 3° 00′	30.11	764.8	61.0	16.1		nw.			6		5?		w.	0	0	4	nw.	cloudy.?
S. S. Westphalia, New York, N. Y	29.98	761.5	72	22.2	95	ne.			3		6		ne.	sqll's	sqll's			fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Buenos Ayres, S. A*†	30.35	770.9	51	10.6		ene.			3		6		ne.	0	0			cloudy.
MALLORY LINE.																		
S. S. Colorado, N. 24° 29′, W. 81° 20′†	30.05	763.3	82	27.8		s.			3		8		s.	0	0	small	s.	cloudy.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 37° 59′, W. 48° 52′*†	30.09	764.3	74	23.3	90	nw.			2		2		nw.	0	0	mod.	n.	clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 15° —′, W. 55° —′†	30.05	763.3				ese.			4		3		e.	1 h'r	1 h'r	sm'h		
MORGAN LINE.																		
S. S. Chalmette, New York, N. Y.†	30.05	763.3	74	23.3		ne.			2		0			0	0			clear.
S. S. New York, N. 26° 28′, W. 80° 02′†	30.19	766.8	82.0	27.8		s.			2		2		s.			sm'h	ese.	clear.
NATIONAL LINE.																		
S. S. Denmark, New York, N. Y	30.04	763.0	70	21.1		ne.			2		2		e.	8 h'r	8 h'r			clear.
S. S. Erin, N. 41° 17′, W. 47° 48′	29.93	760.2	70	21.1	90	w.			2		1			0	0	sm'h		fine.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, Guantanamo, W. I†	30.10	764.5	80	26.7		ne.			1		9		w.	0	0	sm'h		cloudy.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W. I.†	30.05	763.3	83	28.3	96	calm			0		5		ssw.	0	0			fair.
S. S. City of Washington, Vera Cruz, Mexico.*†	30.12	765.0	84	28.9		sw.			2		5		w.	0	0	sm'h		fair.
NORTH GERMAN LLOYD																		
S. S. Graf Bismarck, N. 40° 02′, W. 9° 30′	30.16	766.1	67.1	19.5		nw.			1-2		1		n.	0	0	sm'h	e.	hazy.
S. S. Leipzig, N. 39° 05′, W. 71° 53′	30.02	762.5	72.0	22.2	100	ese.			3		5		se.	0	0	mod.	ssw.	fair.
S. S. Ohio, N. 43° 31′, W. 40° 42′	29.81	757.2				n.			6		8		nw.	6 h'r	6 h'r	r'gh	sw.	cloudy.
S. S. Salier, N. 47° 29′, W. 46° 25′	29.99	761.7	44.6	7.0		s.			2		10		ssw.	7 h'r	7 h'r	mod.	sw.	foggy.
S. S. Strassburg, N. 43° 49′, W. 44° 37′	29.96	761.0	67.0	19.4	86	ne.			2		1		e.	0	0	sm'h	nne.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic N. 41° 39′, E. 172° 11′†	30.12	765.0	65	18.3	84	sw.			4		10		sw.	0	0	mod.	w.	cloudy.
S. S. Coptic, N. 30° 04′ E. 131° 25′	29.65	753.1	82	27.8	93	e.			4		4		se.	2 h'r	2 h'r		se.	d. clouds.
S. S. Gaelic, N. 37° 00′, E 150° 00′†	30.37	771.4	76	24.4	82	s.			4		10		e.			sm'h		fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	30.01	762.2				ssw.			2		10?		sw.	0	0			clear.?
S. S. Seminole, Boston, Mass†	30.07	763.8	78	25.6	82	ene.			1		0			0	0			clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, San Francisco, Cal.†	30.09	764.3	57	13.9	87	calm			0		10		w.					hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal†	30.02	762.5	57	13.9	94	w.			1		10		w.					hazy.
S. S. City of Chester Off Point Loma, Cal. *†	29.96	761.0	64	17.8	94	calm			0		8		nw.			small	nw.	cloudy.
S. S. Idaho, N. 47° 35′ W. 122° 15′†	30.13	765.3	61	16.1	82	se.			2		8		se.	0	0	sm'h		cloudy.
S. S. State of California, N. 38° 56′, W. 124° 00′†	30.03	762.7	55	12.8	93	nw.			3		10		nw.			sm'h	nw.	foggy.
S. S. Victoria, N. 37° 45′, W. 122° 40′†	30.10	764.5	53	11.7	100	nw.			2		5?			0	0	sm'h		overcast.?
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	29.78	756.4	53	11.7	86	n.			2		1		nnw.	0	0			clear.
S. S. City of New York, Sydney, N. S. W. †	29.93	760.2	53	11.7	73	calm			0		0							clear.
S. S. City of Pekin, N. 40° 26′, W. 129° 42′†	30.32	770.1	60	15.6	82	nw.			4		2		nw.	0	0	light	nw.	clear.
S. S. City of Rio de Janeiro, N. 9° 29′, W. 84° 30′*†	30.13	765.3	81	27.2	87	sse.			2		6		sse.	0	0	mod.	sw.	clearing.
S. S. City of Sydney, N. 26° 32′, W. 148° 21′†	30.13	765.3	74	23.3	81	ene.			2		5		ne	0	0	mod.	ne.	fair.
S. S. City of Tokio, Hong Kong, China†	29.48	748.8	83	28.3	91	sw.			4		8		sw.	3 h'r	3 h'r			cloudy.
S. S. Colon, N. 30° 15′, W. 73° 51′†	30.13	765.3	81	27.2		wsw.			4		3		sw.	0	0	small		fair.
S. S. Grenada, N. 9° 22′, W. 85° 10′†	29.95	760.7	79	26.1	91	e.			1		10		e.	2 h'r	2 h'r	sm'h	ssw.	rainy.
S. S. Zelandia, N. 29° 42′, W. 141° 17′	30.21	767.3	70	21.1	90	sw.			2		8		sw.			mod.	w.	fair.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Bermuda, N. 22° 26′ W. 65° 14′†	30.21	767.3	85	29.4		calm			0		2		calm	0	0	sm'h		fine.
S. S. Muriel, N. 26° 50′, W. 66° 52′	29.99	761.7	81	27.2		e.			2		2			0	0	mod	ne.	fair
KIDD LINE.																		
S. S. Valencia, N. 34° 07′, W. 71° 58′*†	30.15	765.8	80	26.7	87	wsw.			6		9		sw.	hv'y	h'vy	h'vy	ese.	raining.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Belgenland, Philadelphia, Pa.†	30.19	766.8	77	25.0	86	e.			3				e.	sh'rs	sh'rs			raining.
S. S. Nederland, N. 47° 27′, W. 27° 20′†	30.44	773.2	63	17.2	97	ese.			4		10		e.			mod.	se.	misty.
S. S. Rhynland, N. 51° 08′, E 2° 08′			64	17.8	78	nnw.			5		4		nnw.	0	0	sm'h		squally.
S. S. Vaderland, Jersey City, N. J.	29.90	759.4	70	21.1	95	nne.			2		2		ne.	6 h'r	6 h'r			hazy.
S. S. Waesland, N. 40° 31′, W. 72° 02′	30.00	762.0	66	18.9		n.			3		0			0	0	sm'h	n.	clear.
ROTTERDAM LINE.																		
S. S. Schiedam, N. 41° 31′, W. 57° 40′	29.96	761.0	77.4	25.2	76	wsw.			6		6		wnw.	0	0	r'gh	w.	cloudy.
S. S. W. A. Scholten, N. 48° 17′, W. 27° 16′*	30.32	770.1	64.0	17.8	89	se.			4		9		se.	6 h'r	6 h'r	mod.	s.	rainy.
STATE LINE.																		
S. S. State of Georgia, N. 50° 33′, W. 34° 40′†	30.14	765.5	58	14.4		sse.			5		8		wsw.	4 h'r	4 h'r	mod.	wsw.	hazy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 54° 18′, W. 29° 45′†	30.46	773.7	58.1	14.5	76	sw.			3		9		sw.	9 h'r	9 h'r	mod	sw.	covered.
W. I. & PACIFIC S. S. CO.																		
S. S. Venezuela, N. 46° —′. W. 30° —′*	30.25	768.3	69	20.6	75	se.			5		8		se.			mod.	se.	hazy.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 40° 26′ W. 72° 32′	30.01	762.2							1		1			0	0	sm'h		fine.
WHITE STAR LINE.																		
S. S. Adriatic, Liverpool, Eng*	30.37	771.4	60	15.6	76	nnw.			5		2		nnw.					fair.
S. S. Baltic, N. 47° 00′ W. 38° 22′	29.97	761.2	66	18.9	94	sse.			4		10		s.	0	0	3	sse.	misty.
S. S. Celtic, N. 43° 41′, W. 51° 46′†	29.93	760.2	67	19.4	95	s			2		2		sw.	8 h'r	8 h'r	sm'h		fair.
S. S. Germanic, N. 45° 10′, W. 40° 41′†	29.85	758.2	60	15.6		sse.			5		10		se.	5 h'r	5 h'r	con.		raining.
S. S. Republic, New York, N. Y.†	30.20	767.1	73	22.8	85	nnw.			3		3		nw.	0	0			d. clouds.
WILSON LINE.																		
S. S. Romano, N. 46° 48′, W. 29° 36′	30.29	769.4	67	19.4		se.			3		10		sw.	0	0	mod	se.	overcast
WINSOR LINE.																		
S. S. Aries, N. 41° 10′, W. 71° 30′*†	30.01	762.2				calm			0		fg.			0	0	long	ssw.	foggy.
S. S. Catherine Whiting, Barnegat, N. J†	30.06	763.5	74	23.3		e.			2					0	0	hv'y	se.	
MISCELLANEOUS.																		
Bk Adelaide, N. 35° 55′, W. 69° 27′*†..	30.04	763.0	80	26.7		s.			6		10	sw.	se.	14 h'r	14 h'r	mod	se.	raining.
Schr. Ajax, N. 32° 36′, W. 77° 04′†	30.08	764.0				sw.			3		2		ssw	4 h'r	4 h'r	mod.	sse.	hazy.
Bk. Alpha, N. 52° 50′, W. 27° 33′†	30.29	769.4	58	14.4		s.			6		10		s.	0	0	mod.	s.	foggy.
Bk. Anna Thormann, S. 38° 39′ E. 78° 25′	29.76	755.9	54.7	12.6	90	nw.			7		10 k;n		nw.	2 h'r	2 h'r	long	nw.	misty.
S. S. Antonio Lopez, Havana, Cuba, W. I.*	30.06	763.5	76	24.4	93	calm			0		0			0	0			hazy.
Bk. Argonaut, N. 44° 04′ W. 53° 25′*†	29.90	759.4	64.9	18.3		wsw.			2		4		ssw.	0	0	mod	wnw.	fair.
Bk. Aureola, S. 7° 00′, W. 34° 36′*†	30.20	767.1	82	27.8		sse.			5		2		sse.	0	0	mod.	sse.	clear.
Bk. B. F. Watson, N. 33° 42′ W. 47° 50′†	30.02	762.5	75	23.9		ne.			5		3		e.	8 h'r	8 h'r	mod		fair.
Bk. Bremen, N. 57° 32′, W. 10° 17′*†	30.37	771.4				wnw.			4		8		wnw.	3 h'r	3 h'r	cross		cloudy.
Bk. Cato, Malmö, Sweden*†	29.91	759.7				wnw.			6									cloudy.
Bk. Celestina, N. 3° 43′, W. 24° 15′*†	30.02	762.5				se.			2		2		se.	0	0	sm'h		
Schr. C. R. Flint, N. 36° 36′, W. 73° 29′*†	30.16	766.1	76	24.4		nnw.			1		5		w.	12 h'r	12 h'r	r'gh	ene.	fair.
S. Cornelius, N. 46° 34′, W. 12° 49′*†	30.62	777.7	58.1	14.5		nnw.			3		10		n.	2 h'r	2 h'r	sm'h	n.	misty.
S. S. D. J. Foley, N. 34° 50′, W. 74° 30′†	29.93	760.2				nw.			4		8		w.	sq'lls	sq'lls	cross		squally.
S. Dora, N. 7° 30′, W. 21° 05′†	30.13	765.3	80.4	26.9		sse.			3		6		s.	0	0	mod.	s.	fair.
Schr. Edith R. Seward, N. 31° 45′, W. 74° 15′*	30.08	764.0	83	28.3		sw.			2		8		w.	6 h'r	6 h'r	rg'h	wsw.	cloudy.
S. E. J. Spicer, New York, N. Y.*	30.03	762.7	73	22.8		nne.			4		3		ne.	12 h'r	12 h'r			fair.
S. Enoch Train, N. 47° 58′, W. 17° 00′†	30.68	779.3				n.			3		10		n.	0	0	sm'h		overcast.
Bk. Essex, S. 18° 50′ E. 42° 00′*†	30.11	764.8	80	26.7		calm			0		1		ssw.	0	0	sm'h		clear.
Bk. Franklin, N. 48° 20′, W. 28° 50′*†	30.64	778.2				sw.			3		2			0	0	sm'h		fair.
Bk. Freya, Baltimore, Md						ene.			3		10		e.	20 h'r	20 h'r			rainy.
S. Glendon, N. 38° 35′ W. 70° 00′†	29.95	760.7	77	25.0		sse.			3		6		s.	4 h'r	4 h'r	sm'h		fair.
Bk. Godefroy, N. 49° 52′ W. 7° 33′	30.34	770.6	59.5	15.3	80	n.			3		7		n.	2 h'r	2 h'r	mod.	wnw.	fair.
S. Grecian, Hong Kong, China*†	29.47	748.5	83	28.3		wsw.			7		8	ne.	sw.	0	0	sm'h		cloudy.
Bk. Gronsvaer, N. 34° 20′, W. 48° 00′†	30.03	762.7				ne.			6		5		ne.	10 h'r	10 h'r	mod.	ne.	fair.
Bk. Hattie G. McFarland, Boston, Mass*†	30.68	764.0	77	25.0		w.			1		0			0	0			clear.
Bk. Heinrich & Tonio, N. 40° 18′, W. 43° 50′*†	30.13	765.3	72	22.2		ne.			6		4		sw;n.	8 h'r	8 h'r	cross		clearing.
Bk. Horace Scudder, Port of Spain W. I†	30.02	762.5	84	28.9		calm			0		8		sw.	1 h'r	1 h'r			
S. Ivy, S. 30° 50′, W. 124° 45′†	30.21	767.3	66	18.9		ne.			5		9		nw.	0	0	mod.	wnw.	hazy.
Schr. James Slater, N. 27° 32′. W. 71° 32′*†	30.38	771.6	86	30.0		nw.			1		1		n.	0	0	mod.	ne.	fine.
Schr. Jennie N. Huddell, Philadelphia, Pa†	30.02	762.5	73	22.8	95	ene.			1		5		ene.	light	light			clearing.
Bk. Johanne, N. 44° 57′, W. 55° 13′*†	29.85	758.2	63	17.2		w.			2		0?			0	0	sm'h	wnw.	overcast?
Bg. John Wesley, St. Jago, Cuba W. I†	29.90	759.4				calm			0		0			0	0			clear.
Bk. Joseph A. Ropes, S. 33° 47′, W. 22° 02′*†	29.73	755.1	59	15.0	81	n.			5		8		nw.	3 h'r	3 h'r	mod.	nw.	cloudy.
Bkt. Josephine, Havana, Cuba, W. I.†	30.03	762.7	80	26.7	78	calm.			0		0			1 h'r	1 h'r			hazy.
Bkt. Kryolith, N. 40° 35′ W. 69° 26′*†	30.05	763.3				ene.			1		0					sm'h		clear.
Light House Tender, Laurel, Cedar Keys, Florida†	29.98	761.5	82	27.8		w.			1		10		w.	4 h'r	4 h'r			threatening
Bk. Liberia, N. 27° 34′, W. 66° 01′*	30.06	763.5	82	27.8	87	n.			2		5		nw.	0	0			
Maggie Abbott, N. 25° 20′, W. 70° 48′†	30.10	764.5									4			0	0		n.	clear.
S. Minnie N. Gerow, N. 45° 16′, W. 35° 19′*†	30.11	764.8				ese.			6		3		se.			r'gh	se.	fair.
S. M. P. Grace, S. 55° 16′, W. 79° 12′*	29.63	752.6	38	3.3		ese.			3				se.	0	0	r'gh	nw.	cloudy.
Bk. National Eagle, N. 38° 56′, W. 45° 21′†	30.02	762.5				nnw.			2		2		n.	1 h'r	1 h'r	mod.	ne.	fair.
S. S. Nebo, N. 42° 29′, E. 5° 51′*†	29.82	757.4				wsw.			4					0	0	short	w.	clear.
S. Orealla, N. 31° 51′, W. 37° 47′*	30.07	763.8				se.			2		3		se.	0	0	mod.	se.	clear.
S. Paramita, N. 29° 05′ W. 134° 56′†	30.14	765.5	76	24.4		ne.			2		3		nne.	0	0	short	nnw.	clear.
Bk. Rosebud, S. 35° 17′ E. 22° 02*†	30.25	768.3	66	18.9	78	calm			0		0			0	0			fine.
S. St. Francis, N. 35° 29′. W. 59° 09′†	30.15	765.8	76	24.4		calm			0		3		ne.	0	0	short	e.	fine.
Bk. Sunbeam, N. 39° 12′ W. 45° 32′†	30.07	763.8	72	22.2	90	n.			5		8		w.	0	0	mod.	ne.	clearing.
S. S. Sunbeam, N. 37° 24′, E. 10° 12′	30.04	763.0	77	25.0	81	nw.			3		2		nw.			3	wnw.	d. clouds.
S. Sovereign of the Sea, S. 33° 09′. W. 49° 30′*†	30.35	770.9	62	16.7	83	ne.			4		9		n.	0	0	long	ese.	cloudy.
Bk. Truro, N. 40° 24′, W. 64° 50′*†	30.04	763.0				w.			2		1		w.	0	0	sm'h		clear.
U.S.F.C.S.S. Fish Hawk, Provincetown, Mass†	30.23	767.8	75	23.9	76	w.			3		1		calm	0	0			clear.
Bk. Vincenzo Accame N. 37° 20′, W. 32° 44′†	30.43	773.0	77.0	25		ese.			4									
Schr Viola Reppard, N. 33° 49′, W. 77° 00′†	29.99	761.7	82	27.8		wnw.			6		8		wnw.	2 h'r	2 h'r	cross		cloudy.
Bg. Wauburn, Palanque, San Domingo*†	30.10	764.5				ne.			4		2		nne.			mod.	ese	¼ covered.
Bk. Warden Law, Sunderland, Eng*	30.11	764.8				nnw			4				nnw.	0	0			fair.

International Chart I. August 3, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 4, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.09	764.3	79.5	26.4	78	sw.			1		1			0	0	very fair	Bouvier.
Algiers			30.12	765.0	79.5	26.4	64	nw.			2		0			0	0	clear	Thève.
La Galle			30.08	764.0	84.6	29.2	75	nw.			2		2			0	0	fair	Fonfrède.
Tunis			30.05	763.2															Jacques.
Saida			30.13	765.2															Peres.
Tebessa			30.13	765.4	81.3	27.4	17	n.			2		0			0	0	clear	Rigaud.
Geriville					91.0	32.8	12	nnw.			1		2			0	0	fair	Lonchamp.
Laghouat			30.15	765.7	95.7	35.4	79	e.			1		0			0	0	clear	Abraham.
Biskra			30.13	765.4	95.7	35.4	25	nw.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.57	751.1	29.66	753.3	46.3	7.9	83	n.	11	4.9			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.45	747.9	29.97	761 3	73.4	23.0	51	sw.			3		5			0.906	23.0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.16	740.6	29.91	759.7	63.0	17.2	75	sw.	6.3	2.8			10			0.059	1.5		Dr. Wierzbiski.
Eperies	28.99	736.3	29.84	758.0	65.8	18.8	58	nw.			2	0	8 ks			0.122	3.1		Julius Mikolik.
Gratz	28.75	730 3	29.96	760.9	70.9	21.6	67	sw.			1		6			0	0		Andreas Rospini.
Hermannstadt	28.43	722.0	29.79	756.6	74.5	23.6	51	wnw.			3		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.72	729.6	30.05	763 2	60.3	15.7	64	wnw.			3		8			0.122	3.2		The Staff.
Lemberg	28.87	733.4	29.83	767.6	67.6	19.8	62	nw.			2		6			0.028	0.7		Dr. T. Stanecki.
Pola	29.86	758.4	29.97	761.1	79.7	26.5	50	s.			3		1			0	0		I. R. Hydrographic Office.
Szathmar	29.37	746.1	29.82	757.4	71.4	21.9	52	nw.			4		3			0	0		Joseph Midlinszky, S. J.
Szegedin	29.04	752.8	29.91	759.6	73.8	23.2	41	sw.			3		6			0	0		Karl Stancel.
Trieste																			Royal Academy.
Vienna	29.32	744.0	30.02	762.5	62.4	16.9	62	nw.			2		9			0.008	0.1		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.10	764.5	30.20	767.1	58.6	14.8	55	wnw.	21	9.4			0			0.065	1.6	d. clouds	W. Boswell
Armagh, Observatory	30.13	765.3	30.30	771.1	62.3	16.8	80	wnw.	5	2.2			10					gloomy	S. Call.
Bidston, Liverpool Obs'y			30.32	770.1	60.1	15.6	93	w.	28	12.5			2					blue sky	John Hartnup.
Bolton, Sharples	29.71	754.6	30.25	768.3	58.9	14.9	70	nw.	6	2.7			7					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.86	758.4	30.25	768.3	64.7	18.2	53	nw.			2		7			0	0	d. clouds	J. McLandsborough.
Bridgetown, Barbadoes	30.03	762.7	30.06	763.5	84.0	28.9	65	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			30.25	768.3	67.4	19.7	62	nw.			2.0		7					d. clouds	John McLaren.
Chatham, School M. E.	30.15	765 8	30.28	769.1	65.6	18.7	50	w.			1		7					d clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.17	766.3	30.40	772.1	61.2	16.2	61	nnw.			3		6					d. clouds	The Staff.
Fort Napier, Natal	27.79	705.9	30.01	762.2	72.6	22.6	36	calm			0		0					blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.69	754 1	29.92	760.0	81.0	27.2	86	w.			1		5					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.02	762.5	30.07	763.8	82.0	27.8	72	w.			2		0					blue sky	Corpl. F. Norris, A. H.C
Glasgow, Observatory	30.05	763.3	30.26	768.6	61.9	16.6	83	w.			4		6					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.10	764.5	30.27	768.8	65.0	18.3	54	nnw.			1		7					d. clouds	The Staff.
Guernsey	30.06	763.5	30.35	770 9	62	16.7	71	n.			1		1					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.25	768.3	30.29	769.4	63.0	17.6	54	nw.	13	5.8			5					d. clouds	The Staff.
Leicester, Museum	30.02	762.5	30.27	768.8	64.0	17.8	57	nw.			1		6					d. clouds	J. C. Smith.
Malta, Mediterranean	29.90	759.4	29.98	761.5	78.2	25.7	69	w.			3		2					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.08	764.0	30.12	765.0	84.5	29.2	66	se.			1		2					blue sky	C. S. Duncombe.
Oscott, St. Mary's College	29.78	756.4	30.31	769.9	60.5	15.8	70	nw.			4		7					d clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	30.07	763.8	30.30	769.6	61.5	16.4	68	wnw.			3		3					blue sky	The Staff.
Plymouth	30.29	769.4	30.36	771.1	66.4	19.1	58	nw			3		2					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			30.18	766.6	54.7	12.6	68						0					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.65	753.1	29.71	754.6	91.0	33.1	46	n.			2		2			blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.98	761.5	30.26	768.6	66.9	19.4	60	ne.			2		2			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.24	768.1	30.27	768.8	64.5	18.1	58	wnw.			2		5			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.30	769.6	60.0	15.6	68	wnw.	15	6.7			10					d. clouds	I. New.
Stratfield Turgiss					68.1	20.1	56	nw.			3		2					d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.38	771.6	30.39	771.9	66	18.9	64	nw.			4		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.47	773.9	30.49	774.4	61.0	16.0	88	nw.	7	3.1			10					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.91	759.7	29.95	760.7	68	20.0	70	sw.	7	3.1		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.88	758.9	29.94	760.5	66	18.9	78	s.	4	1.8		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	29.90	759.4	29.93	760.2	58	14.4	83	w.	7	3.1		2 k	hz.	w.		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.28	743.7	30.08	764.0	63	17.2	93	calm	0	0		0	0			0	0	hazy	James Stewart.
Halifax, N. S*	29.92	760.0	30.04	763.0	65	18.3	76	w.	2	0.9		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.70	754.4	30.02	762.5	73	22.8	76	se.	2	0.9		8 ck	2 s	w.	calm	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.83	757.7	30.03	762.7	70	24.4	76	n.	1	0.4		0	sk.			0	0	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.35	745.5	30.02	762.5	70	21.1	84	ne.	4	1.8		2 k	2 ks	sw.	sw.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.32	744.7	29.98	761.5	70	21.1	95	calm	0	0			10 n		e.	inap.	inap.	threatening	H. Morgan.
Port Stanley, Ontario	29.32	744.7	29.94	760.5	68	20.0	93	e.	8	3.6			10 n		e.	0.05	1.3	light rain	M. Payne.
Quebec, Quebec*	29.71	754.6	30.02	762.5	67	19.4	90	calm			0	0	2 s			0	0	hazy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.60	751.8	30.04	763.0	66	18.9	87	calm	0	0		3 ck	0	w.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.29	744.0	29.97	761.2	70	21.1	73	e.	7	3.1			10 ks			inap.	inap.	cloudy	
St. Andrews, N. B	29.92	760.0	29.97	761.2	63	17.2	85	calm	0	0		0	0			0	0	clear	
Sydney, C. B*	29.92	760.0	29.98	761.5	65	18.3	78	sw.	9	4.0		3 c	0	n.		0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.65	753.1	30.02	762.5	69	20.6	68	ne.	10	4.5			10 ks		se.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.98	761.5	30.05	763.3	58	14.4	93*	w.	2	0.9		0	0			0	0	clear	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.62	726.9	30.04	763.0	65.0	18.3	89						10 n; k			0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	30.00?	762.0?	30.25?	768.3?	60	15.6	88	sw.					10			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.24	768.1	30.26	768.6	63	17.2	88	wsw.	7.6	3.4		0	1 s			0	0	clear	C. Hansen.
Cape Town, C. G. H. Obs'y	30.21	767.3	30.24	768.1	64.8	18.2	70	sse.	10	4.5		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.50	749.3	29.52	749.9	70.9	21.6	80	nnw.	7.4	3.3		0	1 k		n.	0.094	2.4	clear	M. Marc Decheyrens, S.J.
Danish.																			
Copenhagen	29.40	746.7	29.45	747.9	52.3	11.3	83	wnw.	27	12			10					raining	Oversergent Fischer.
Fanöe	29.68	753.8	29.70	754.3	56.3	13.5	73	nw.			8		9						Overloerer Lauridsen.
Godthaab, Greenland	29.84	757.8	29.88	758.9	42.6	5.9	93	sw.			2		10			0.055	1.4		S. Kleinschmidt.
Ivigtut	29.89	759.3	29.91	759.8	45.1	7.3		calm			0		10					raining	
Stykkisholm, Iceland	29.80	756.8	29.84	757.9	49.6	9.8	91	se.			6		10					raining	A. O. Thorlacius.
Thorshavn	30.12	765.0	30.15	765.9	54.1	12.3	63	calm	0	0			3						Overloerer Bergh.
Vestervig	29.50	749.3	29.59	751.6	56.2	13.5	74	nw.			8		0						Loearer Oesterbol.
French.																			
Agen, Normal School	29.58	751.3	30.21	767.2	79.2	26.2	30	ne.			1	2 c	0			0	0	slightly cl'dy	M. Labroue, Directo .
Alençon, Normal School	29.75	755.7	30.31	769.8	65.8	18.8	66	n.			1		k	n.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.97	761.1	30.22	767.5	65.3	18.5	52	nnw.			3		k			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.94	760.5	30.02	762.5	81.3	27.4	49	n.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.69	754.2	30.24	768.0	67.6	19.8	44	ne.			1		4		ne.	0	0		M. Saillard, Director.
Beauvais, Normal School	30.01	762.2	30.27	768.5	65.3	18.5	53	wnw.			2		8		nw.	0	0	very cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.27	743.5	30.15	765.9	65.8	18.8	72	n.			1	0	5 k		n.	0.59	15.	fair	M. Gobin, Director.
Bordeaux, Observatory	29.95	760.8	30.21	767.2	78.3	25.7	40	se.			1		8			c	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.67	753.7	30.22	767.7	70.7	21.5	57	nw.							nw.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.13	765.3	30.37	771.4	64.6	17.8	65	ne.			2		3		ne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.21	767.4	30.25	768.3	56.5	13.6	82	nw.			2		5		nw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.84	757.9	30.15	765.8	67.6	19.8	81	w.			4		5	ne.	ene.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.69	754.0	30.19	766.8	69.4	20.8	45	w.			1		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.87	733.3	30.18	766.5	74.1	23.4	52	n.			1	0	2 k		nw.	0.008	0.2	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.30	744.2	30.20	768.6	72.5	22.5	42	ne.			1		2		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.17	715.6	30.19	766.9	65.8	18.8	86	nw.			3		kn	nw.	nw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.56	700.0	29.98	761.4	78.4	25.8	30	n.			4	0	zk;kn		n.	0	0		M. Jeanginard, Director.
Gréasque, du Rhone	28.91	734.3	29.97	761.1	88.2	31.2	27	sw.			2		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.36	745.8	30.11	764.7	72.3	22.4	50	nw.			2	ck	0	ne.		0	0		M. Ablard, Director.
Lamballe, Normal School					66.2	19	63	nw.			2	0	5 k		nw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.65	753.1	30.20	767.1	72.0	22.2	72	w.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.25	768.3	30.35	770.9	72.3	22.4	86	n.			1		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.15	740.4	30.18	766.6	71.1	21.7	49	n.			2	0	1 n		n.	0	0	clear	M. André, Director.
Mans, Normal School	30.02	762.4	30.32	770.1	66.7	19.3	80	ne.			1		5		n.	0	0	fair	M. Piboen, Director.
Marseille, Observatory	29.72	754.9	29.98	761.5	85.1	29.5	37	w.			1		0			0	0	clear	M. Stephan, Director.
Montlouis	25.02	635.5	29.86	758.5	71.6	22.0	34	se.	3.8	1.7						0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.90	759.5	30.02	762.5	87.1	30.6	33	n.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.44	747.7	30.21	767.4	63.7	17.6	56	sw.			2	5 ck	0			0.134	3.4	cloudy	M. Hasse, Director
Nantes, Observatory	30.16	766.0	30.32	770.1	69.8	21	52	nne.			1-2	0	1 k		nne.	0.010	0.4		M. Larocque, Director.
Perpignan, Observatory	29.97	761.1	30.07	763.7	84.4	29.1	36	n.	24 2	10.8			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21 52	546.7			59.0	15.0		sw.			1		0			0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.12	739.6	30.14	765.6	77.2	25.1	27	nw.			4		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.40	645.2			51.6	10.9	84	nne.			2		2			0.240	6.1	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.23	767.9	30.26	768.7	79.2	26.2	98	ne.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	30.03	762.8	30.24	768.2	70.5	21.4	84	nnw.			1		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	28.08	713.2	30.15	765.9	74.8	23.8	82	nw.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.27	768.9	30.32	770.1	66.2	19	56	nw.			1		5	ne.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	30.08	764.1	30.25	768.3	68.0	20.0	48	nnw.			2		7		nw.	0	0		M. Renou, Director.
Toulouse, Observatory	29.53	750.1	30.26	768.6	80.6	27.0	44	nnw.			3		2	nw.		0	0		M. Baillaud, Director.
Tours	30.09	764.3	30.27	768.8	70.2	21.2	48	nne.			3		2	ne.	ne.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.76	756.0	30.26	768.5	65.8	18.8	57	n.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.97	761.3	30.26	768.7	67.5	19.7	52	nw.			2		6	wnw.	wnw.	0	0		M. Marié Davy, Director
German.																			
Ansbach	28.67	728.2	30.11	764.7	58.3	14.6	60	nw.			4		10	nw.		0	0		Prof. Jnedt.
Bamberg	29.28	743.6	30.13	765.3	59.7	15.4	60	w.			2	0	9 n		w.	0.094	2.4	raining	Prof. Dr. Hoh.
Berlin	29.66	753.4	29.84	757.9	59.5	15.3	48	w.			5		5			0.055	1.4		Prof. Dr. Arndt.
Breslau	29.39	746.5	29.92	759.9	58.8	14.9	63	w.			3		5			0.012	0.3		Royal University Obs'y.
Carlsruhe	29.71	754.6	30.15	765.7	65.5	18.6	56	sw.			4		10	nw.		0	0		Albert Senz.
Cassel	29.34	745 2	30.01	762.3	62.2	16.8	40	nw.			5		8	n.		0.083	2.1		Dr. H. Möhl.
Frankfort-on-the-Main	29.75	755.6	30.11	764.8	61.3	16.3	73	wnw.			1		10			0	0		Physical Society.
Friedrichshafen	28.71	729.1	30.11	764.7	66.6	19.2	67	w.			2		3	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.77	756.1	29.86	758.5	54.7	12.6	70	w.			7		5			0.272	6.9	raining	E. Preller.
Kiel	29.76	755.8	29.77	756.2	55.9	13.3	63	w.			8		10			0.134	3.4		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.53	750.1	29.95	760.6	63.3	17.4	48	w.			6		6	w		0.055	1.4	stormy	H. Leppig, Asst.
Magdeburg	29.73	755.2	29.92	760.0	54.9	12.7	85	wnw.			6		10 ks		w.	0.016	0.4		Dr. Assmann.
Memel	29.66	753.4	29.71	754.6	61.3	16.3	67	sw.			5	0	8 ks						Issermann.
Munich	28.30	718.9	30.17	766.4	62.4	16.9	54	sw.			4		6	w.		0.016	0.4		Dr. C. Lang.
Neufahrwasser	29.68	753.8	29.69	754.2	62.6	17.0	51	wsw			5		8	w.		0.012	0.3		A. Lothes.
Neustadt, Palatinate	29.61	752.2	30.16	766.0	66.0	18.9	57	w.			2		4	nnw.		0	0		Dicknether.
Stuttgart	29.18	741.2	30.05	763.4	66.2	19.0	46	nw.			4		8	nw.		0	0		Prof. Dr. Schoder.
Wustrow	29.65	753.1	29.68	753.8	58.5	14.7	74	wnw.			8		10 s		calm	0.512	13.0		Profs. Brandes & Reimer
Greek.																			
Athens	29.45	748.1	29.82	757.5	82.0	27.8		ne.			3.0	c	8 k			0.421	10.7		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.55	750.5	29.60	751.8	84.5	29.2	76	wsw.	27.0	12.1			4		w.	0	0	d. clouds	
Deesa	29.08	738.6	29.55	750.4	83.4	28.6	76	wsw.	16.0	7.2			5	sw.		0.12	3.0	showery	
Bombay	29.69	754.0	29.72	755.0	77.0	25.0	94	wsw.	15.0	6.7			10	wsw.	wsw.	0.39	9.9	overcast	
Poona, Yarrowda	27.87	707.8	29.73	755.0	74.8	23.8	74	wsw.	36.0	16.1			10		w.	0.01	0.3	overcast	
Trichinopoly	29.48	748.8	29.75	755.7	90.5	32.5	43	wnw.	4.0	1.8			10			0	0	overcast	
Bellary	28.24	717.4	29.69	754.1	86.0	30.0	48	nw.	12.7	5.7			9	sw.		0	0	gloomy	
Belgaum	27.25	692.1	29.81	757.2	69.6	20.9	91	sw.	6.0	2.7			7	e.	sw.	0.13	3.3	showery	
Lahore	28.63	727.3	29.34	745.3	95.7	35.4	56	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.45	722.6	29.31	744.4	93.2	34.0	63	nw.	2.2	1.0			4			0	0		
Agra	28.85	732.8	29.40	746.8	87.2	30.7	76	nw.	10.0	4.5			4		n.	0	0	d. clouds	
Nagpur	28.55	725.3	29.59	751.6	78.7	25.9	84	nw.	6.0	2.7			10		w.	0.08	2.0	overcast	
Jubbulpore	28.20	716.3	29.55	750.6	76.4	24.7	90	wnw.	7.3	3.3			10		w.	1.65	41.9	overcast	
Lucknow	29.04	737.6	29.41	747.0	84.7	29.3	79	wnw.	1.5	0.7			10	ene.		1.22	31.0		
Allahabad	29.10	739.1	29.40	746.8	84.5	29.2	81	nw.	2.0	0.9			10		ne.	0	0	gloomy	
Patna	29.23	742.5	29.41	747.1	91.4	33.0	70	e.	2.5	1.1			6	e.	e.	0	0	d. clouds	
Hazaribagh	27.46	697.4	29.44	747.7	79.6	26.4	79	sw.	6.2	2.8			10			0	0	thunder	
Cuttack	29.41	746.9	29.49	749.0	81.8	27.7	83	sw.	8.0	3.6			8			1.14	29.0	d. clouds	
Calcutta, Alipore	29.40	746.8	29.42	747.3	85.9	29.9	76	sw.	8.0	3.6			7		ene.	0	0	d. clouds	
Dhubri	29.30	744.2	29.42	747.1	86.8	30.4	75	s.	4.8	2.2			9			0	0	gloomy	
Chittagong	29.38	746.1	29.46	748.4	83.5	28.6	85	calm	4.5	2.0			10			0	0	overcast	
Sibsagar	29.11	739.5	29.44	747.8	85.0	30.0	80	ne.	2.0	0.9			10	w.	w.	0.01	0.3	d. clouds	
Jeypore	28.06	712.7	29.46	748.3	89.7	32.1	58	nw.	8.1	3.6			9		nw.	0.02	0.5	d. clouds	
Zanzibar, Africa	30.08	764.0			83.3	28.5	47	se.	5.9	2.6			4		se.	0	0	d. clouds	
Italian.																			
Udine	29.59	751.5	29.98	761.5	78.6	25.9	40	w.	0.7	0.3			4			0.012	0.3		Prof. Giovanni Cloding.
Milan	29.48	748.7	29.97	761.2	83.8	28.8	40	s.	6.9	3.1			4			0	0		Prof. Schiaparelli.
Padua	29.85	758.3	29.96	761.0	81.5	27.5	46	sSW.	8.1	3.6			4	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.09	738.8	29.95	760.8	82.4	28.0	33	s.	2.5	1.1						0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Genoa	29.76	756.0	29.95	760.7	82.4	28.0	48	sw.	3.1	1.4			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.11	714.1	29.94	760.5	79.2	26.2	32	e.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	29.91	759.7	29.96	760.9	77.7	25.4	63	ese.	10.5	4.7			0			0.071	1.8		Prof. Luigi Guidi.
Florence	29.67	753.6	29.91	759.7	87.8	31.0	31	w.			2		1	nw.		0	0		Prof. Costantino Pittier
Leghorn	29.80	757.0	29.89	759.1	82.2	27.9	62	ne.	3.8	1.7			3			0	0		Prof. P. Monte.
Rome	29.76	755.8	29.92	760.0	86.0	30.0	47	sw.	12.5	5.6			1			0	0		Prof. P. Tachini.
Lecce	29.68	753.8	29.92	759.9	77.7	25.4	57	e.	13.0	6.1			2			0	0		Prof. C. de Giorgi
Cosenza	29.06	738.2	29.91	759.8	86.4	30.2	73	w.	3.1	1.4			3	sw.		0	0		Prof. D. Conti.
Cagliari	29.72	754.9	29.91	759.6	83.3	28.5	41	nw.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.72	754.8	29.96	760.9	81.5	27.5	52	ne.	9.4	4.2			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.86	758.4	29.90	759.5	83.3	28.5	63	nw.	8.7	3.9			1	wnw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.44	747.8	29.95	760.6	83.1	28.4	58	sw.	0.7	0.3			1	w.		0	0		Prof. T. Brioschi.
Stelvio	22.32	567.0			48.2	9.0	41	e.			2		1			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.38	568.5			56.8	13.8	47	n.			2		1			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.98	761.5	30.02	762.5	75.3	24.1	89	n.	1.0	0.4		0	2 s			0	0	fair	K. Ogawa.
Hakodate	30.01	762.2	30.02	762.5	72.2	22.3	94	e.	9.0	4.0			2			0	0	clear	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.58	751.3	29.75	755.6	76.6	24.8	74	e.	17.1	7.6			10 s;ks		e.	0.238	6.0	cloudy	M. Fojima.
Nagasaki, I. M. Obs'y	29.35	745.5	29.54	750.4	79.4	26.3	81	nnw.	0.6	0.3		0	3 s			0	0	clear	
Nemuro	30.10	766.0	30.22	767.6	67.0	19.4	97	sse.	6.0	2.7		10	0			0	0	foggy	
Niigata	29.87	758.7	29.90	759.4	78.1	25.6	75	se.	8.8	3.9			10 ck;s			0.020	0.5	covered	M. Morita.
Nobiru	30.03	762.8	30.05	763.2	76.3	24.6	96	se.	19.2	8.6		0	8 s			0.005	0.1	cloudy	H. Midzushima.
Osaka	29.67	753.6	29.68	753.9	74.9	23.8	84	ene.	18.8	8.3			10 n			0.130	3.3	light rain	
Sapporo					74.0	23.3	90	se.	12.0	5.4			10					raining	
Tokei Obs'y, Yeddo	29.92	759.9	29.99	761.7	73.2	22.9	97	e.	5.4	2.4		0	9 s			0.705	17.9	cloudy	The Staff.
Wakayama	29.61	752.1	29.66	753.3	75.2	24.0	86	ene.	4.3	1.9			10			0.107	2.7	raining	Y. Kuwamuea
MAURITIUS.																			
Mauritius Observatory	30.04	763.0	30.23	767.8	72.8	22.7	65	ese.	16.5	7.4		0	4 k;n		ese.	0.02	0.5	fair	Oliver & Figg.
MEXICAN.																			
Guanajuato	23.65	600.8	29.87	758.8	59.4	15.2	85	calm	0	0		4 c	1k;kn	ne.	ne.	0	0	fair	Prof. Vicente Fernandez.
Leon	24.36	618.7	30.01	762.2	60.8	16.0	86	n.			1	6 c	2 k	nw.		0	0	cloudy	Prof. M. Leal.
Mazatlan	29.00	751.8	29.80	758.3	78.5	25.8	72	wsw.	1.6	0.8		5 cs	0	e.		0.079	2.0	fair	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.2	30.11	764.8	57.2	14.0	85	calm	0	0			10 kn			0	0	covered	The Staff.
Morelia	24.13	613.0	30.19	766.9	60.3	15.7	60	se.			3	1	0	se.		inap.	inap.	clear	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.93	607.8	29.84	757.8	62.6	17.0	79	ne.			1	3 c	0			inap.	inap.	clear	M. V. de Leon, M. E
Puebla, Catholic Institute	23.42	594.9	30.11	764.8	58.1	14.5	94	ne.	2.7	1.2			10		ene.	2.871	72.9	covered	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D.
Zacatecas	22.55	572.5	31.12?	763.6?	59.1	15.2	77	ene.	7.7	3.4		2 cs	1 k			0	0	½ cloudy	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.24	768.0	30.24	768.0	62.2	16.8		n.			4					0	0		
Groningen	29.99	761.8	30.05	763.2	59.7	15.4		nnw.			6					0.043	1.1		
Helder	30.13	765.4	30.13	765.4	58.1	14.5		nw.			5					0	0		
Hellevoetsluis	30.20	767.1	30.20	767.1	61.9	16.6	56	nnw.			3					0	0		
Utrecht	30.13	765.2	30.17	766.4	62.4	16.9	57	nw.			4		5			0.008	0.2	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.67	753.5	29.73	755.1	52.9	11.6	88	nnw.	34	15			10			0.094	2.4	raining	
Brono	29.55	750.0	29.59	751.6	61.7	16.5	80	s.	4	2			8			0.264	6.7	raining	
Christiania	29.23	742.5	29.37	746.1	60.4	15.8	67	nne.	18	8			9			0.500	12.7		
Gjesvaer	29.69	754.1	29.71	754.7	66.7	19.3		n.			2		0						
Lodingen	29.61	752.2	29.66	753.4	69.1	20.6	65	calm			0		7			0	0		
PORTUGUESE.																			
Angra, Azores					72.7	22.6	72	sse.	4.3	1.9			4			0	0		Dr. J. A. Sampaio
Campo Major	29.04	737.6	29.96	761.0	100.0	37.8	9	se.	3.1	1.4			7			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.12	765.1	30.21	767.3	76.8	24.9	69	sw.	7.4	3.3			5			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.72	754.8	30.07	763.7	71.6	22.0	73	sw.	12.5	5.6			1			0	0		The Staff.
Ponta Delgada, Azores	30.27	768.8	30.34	770.6	77.0	25.0	61	nw.	3.1	1.4			4			0	0		
Saint Paul de Loando	29.89	759.2	30.10	764.4	70.5	21.4	87	nnw.			1		8			0	0		
Serra da Estrella	25.50	647.7	29.97	761.3	77.5	25.3	21	e.	10.5	4.7			0			0	0		
RUSSIAN.																			
Akmolinski	28.63	727.1	29.64	752.8	79.2	26.2	27	nne.	27	12		0	3 k			0	0		Major K. Lasarew.
Archangel	29.79	756.6	29.81	757.1	81.1	27.3	44	se.	9	4		0	6 ks			0	0		Capt. Sseliwerstow.
Astrakhan	29.99	761.7	29.91	759.6	84.9	29.4	39	se.	11	5		0	0			0	0		Capt. Wisganow.
Barnaul	29.21	742.0	29.68	753.8	81.3	27.4	46	ne.	9	4			2			0	0	light clouds.	Meteorological Obs'y.
Dorpat	29.43	747.4	29.66	753.3	65.1	18.4	84	se.	4	2		0	7 k			0.213	5.4		Observatory.
Ekaterinburg	28.87	733.2	29.81	757.1	59.2	15.1	88	se.	13	6			10 n			0.067	1.7		Metecrological Obs'y.
Irkutsk																			
Kasan	29.59	751.5	29.85	758.2	64.8	18.2	78	sw.	2	1			10			0.071	1.8		Observatory.
Kertch	29.69	754.2	29.71	754.7	87.6	30.9	65	se.	18	8		0	6 ks			0	0		Lagorio & Sastyrez.
Kieff	29.10	739.2	29.70	754.4	77.4	25.2	58	s.	2	1		c	9 ks;n						Observatory.
Lugan	29.50	749.3	29.69	754.2	87.8	31.0	34	ssw.	4	2			10			0	0		Meteorological Obs'y.
Moscow	29.23	742.4	29.67	753.6	79.9	26.6	51	sw.	7.8	3.5		0	7 ks						Meteorological Obs'y.
Nikolaiev	29.67	753.6	29.74	755.4	89.4	31.9	37	nnw.	4	2		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.48	748.8	29.62	752.4	77.9	25.5	56	calm	0	0		0	5 k			0	0		Physical Observatory.
St. Petersburg	29.65	753.0	29.66	753.4	78.1	25.6	35	sse.	16	7		0	7 kn			0	0		Central Physical Obs'y.
Semipalatinsk	29.00	736.5	29.60	751.7	90.0	32.2	22	n.	9	4			0			0	0		Major Lasarew
Tashkend, Laboratory	28.18	715.8	29.63	752.6	90.3	32.4	32	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.43	722.1	29.74	755.4	96.3	35.7	27	s.	4	2		0	8 s			0	0		Physical Observatory.
Vladivostock	29.63	752.5	29.69	754.2	72.7	22.6	89	se.	16	7			10 k						
Warsaw	29.39	746.0	29.81	757.2	59.2	15.1	65	sw.	16	7			10 ks						Astronomical Obs'y.
Wilna	29.31	744.4	29.71	754.7	65.8	18.8	64	w.	2	1			7			0.094	2.4		Berg, Assistant.
Yeniseisk	29.82	757.3	30.09	764.2	81.7	27.6	52	n.	2	1			0			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.29	760.4	57	13.9	93	w.			4		10			0.1	3.	showery	J. Youngclause.
North Unst			30.02	762.5				nw.			8		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.96	761.0	30.06	763.5	81.9	27.7	68	se.	3.6	1.6		0	0			0	0	misty	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.21	767.2	30.26	768.7	74.1	23.4	67	nw.	1.8	0.8			10			0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.25	692.1	30.09	764.3	77.9	25.5	31	ne.	9.4	4.2		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.88	708.1	29.95	760.8	92.1	33.4	31	n.	4.0	1.8		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.92	760.0	30.08	764.1	92.7	33.7	48	ese.	1.3	0.6		0	0			0	0	clear	Olayo Diaz, Director
Oviedo	29.45	748.0	30.33	770.4	63.5	17.5	70	n.	5.5	2.5			10 n			0	0	cloudy	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.19	741.3	30.04	763.0	80.8	27.1	47	ne.	18.6	8.3		0	0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.97	761.3	30.04	763.0	79.5	26.4	83	sse.	1.8	0.8		c	0	e.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.75	755.6	29.81	757.1	82.4	28.0	78	sw.	34.1	15.2		0	4 ks		sw.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.2	30.06	763.6	79.7	26.5	64	w.	5.2	2.3		0	0			0	0		Capt. G. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.03	762.7	30.12	765.0	82.4	28.0	94					5 s	3 k	n.	sw	0	0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.51	749.5	29.65	753.1	84.0	28.9	73	s.	9.4	4.2		2 cs	8 ks		wsw.	inap.	inap.	overcast	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.72	754.8	29.76	755.8	66.6	19.2	74	s.			2		10			0.114	2.9		
Umea	29.56	750.9	29.61	752.2	69.4	20.8	58	se.			4		6			0.000	23.0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Swedish—Continued.																			
Hernosand	29.53	750.1	29.58	751.4	65.5	18.6	81	sse.			2		5			0.157	4.0		
Stockholm	29.34	745.1	29.51	749.6	60.8	16.0	50	s.			4		7			0.299	7.6		
Wisby	29.39	746.5	29.45	748.0	63.3	17.4	51	s.			6		5			0.024	0.6	raining	
Sub-series.																			
Upsala	29.38	746.3	29.47	748.5	62.4	16.9	55	sse.	11.2	5.0			7		s.	blank	blank		S. G. Fineman.
Swiss.																			
Geneva	28.74	729.9	30.11	764.8	72.0	22.2	56	n.			3		3			0	0	clear	The Observatory
Turkish.																			
Constantinople			29.78	756.4	84.4	29.1	53	ne.	9	4.0			4		ne.	1.783	45.3		The Observatory.
Valona			30.03	762.8	81.7	27.6		w.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.79	756.7	91.2	32.9	57	sw.			1	3 cs	0	nw.		0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	30.01	762.2	30.09	764.3	73	22.8	64	s.	1	0.4		6 ck	0	w.		0	0	fair	J. O. Barnes.
Alpena, Michigan	29.37	746.0	30.01	762.2	69	20.6	78	e.	1	0.4		6 cs	2 s			0.01	0.3	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.10	637.5	29.82	757.4	54	12.2	60	e.	3	1.3		0	0			inap.	inap.	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.13	689.1	29.88	758.9	70	21.1	34	ne.	4	1.8		2 c	0	sw.		0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.79	731.3	29.94	760.5	71.0	21.7	94	w.	1	0.4			10 s			0.92	23.4	cloudy	H. Hall.
Atlantic City, New Jersey	30.00	762.0	30.00	762.0	73.3	22.9	90	ne.	13	5.8		7 c	0			0.01	0.3	fair	Jas. M. Watson.
Augusta, Georgia	29.78	756.4	29.97	761.2	78	25.6	82	s.	3	1.3			10 s		s.	0	0	cloudy	John Healy.
Baltimore, Maryland	30.00	762.0	30.05	763.3	72	22.2	90	e.	5	2.2			10s;fg		e.	0.06	1.5	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.00	762.0	30.02	762.5	73.0	22.8	82	ne.	16	7.2		5 cs	2 k		sw.	0	0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.54	724.9	30.08	764.0	57	13.9	86	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.12	688.8	29.91	759.7	70	21.1	55	calm	0	0		0	3 s			0	0	clear	S. Wheaton.
Behring Island, Behring Sea	29.87	758.7	29.89	759.2	49.6	9.8		s.	5	2.2		1 ck	2 s	n.		0.02	0.5	fair	Dr. L. Steineger.
Bismarck, Dakota	28.31	719.1	30.06	763.5	63	17.2	84	calm	0	0		1 c	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.05	763.3	30.08	764.0	70	21.1	84	calm	0	0		4 c;cs	0		calm	0	0	fair	J. T. Eiker.
Boise City, Idaho	27.18	690.4	29.93	760.2	62	16.7	58	nw.	2	0.9		1 cs	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.92	760.0	30.00	763.5	72.0	22.2	71	calm	0	0		3 c	1 s;hz			0	0	fair	O. B. Cole.
Brownsville, Texas	29.85	758.2	29.89	759.2	75.3	24.1	90	s.	1	0.4		2 cs	4 ks			0	0	fair	M. McCarty.
Buffalo, New York	29.28	743.7	30.01	762.2	70	21.1	76	ne.	5	2.2		3 ck	7 ks	w.	ne.	0	0	cloudy	Clarence Weaver.
Buford, Fort, Dakota	28.09	713.5	30.03	762.7	66	18.9	70	e.	8	3.6		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.77	756.1	30.06	763.5	73.3	22.9	67	s.	3	1.3		6 cs	0	w.		0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.47	748.5	29.86	758.4	71.7	22.1	94	w.	4	1.8			10 s			0.95	24.1	cloudy	W. H. Ray.
Campo, California	27.34	694.4	29.84	757.9	53	11.7	69	e.	2	0.9		0	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	29.94	760.5	29.95	761.0	70	24.4	85	e.	11	4.9		5 k	0	w.		0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.97	761.2	30.00	762.0	72.5	22.5	83	e.	14	6.3		0	6 k		e.	0.15	3.8	fair	W. E. Smith.
Cape Mendocino	29.50	749.3						n.	30	13.4		0	8 ks		n.	0	0	cloudy	J. R. Williams.
Cedar Keys, Florida	30.00	762.0	30.02	762.5	80	26.7	82	sw.	12	5.4		0	4 ks			0.62	15.7	fair	F. W. Mixer.
Champaign, Illinois	29.02	737.1	29.81	757.2	68.4	20.2	85	se.	2	0.9			10 s		se.	inap.	inap.	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.91	759.7	29.96	761.0	81	27.2	79	sw.	6	2.7		3 c	0			0.04	1.0	clear	J. H. Smith.
Charlotte, N. Carolina	29.07	738.4	29.90	759.4	73.0	22.8	97	se.	4	1.8			10 s		se.	0.33	8.4	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.12	739.6	29.92	760.0	68.0	20.0	93	calm	0	0			fg.			0.40	10.2	dense fog	B. L. Goulding.
Cheyenne, Wyoming	24.24	615.7	29.94	760.5	49.8	9.9	80	nw.	1	0.4		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.17	740.9	29.86	758.4	70.7	21.5	91	e.	6	2.7		10 k	0	e.		inap.	inap.	cloudy	J. Mitchell.
Chincoteague, Virginia	29.95	760.7	29.97	761.2	74	23.3	97	e.	8	3.6		0	8 s		e.	0	0	cloudy	O. F. Dickens.
Cincinnati, Ohio	29.24	742.7	29.88	758.9	74	23.3	84	se.	5	2.2		7 k	0	se.		0.11	2.8	fair	J. F. Harrold.
Cleveland, Ohio	29.20	741.7	29.92	760.0	71.3	21.8	83	se.	12	5.4			10 s		s.	0.03	0.8	cloudy	J. B. Newlin.
Coleman City, Texas	28.20	716.3	29.94	760.5	71	21.7	76	w.	4	1.8		6 cs	0			0.03	0.8	fair	L. Dorman.
Columbus, Ohio	29.05	737.9	29.88	758.9	72	22.2	84	e.	4	1.8			10 s		se.	0.03	0.8	cloudy	D. Cuthbertson.
Concho, Texas	28.12	714.2	29.98	761.5	71	21.7	97	calm	0	0			10 s		nw.	0.98	24.9	cloudy	W. W. McConihe.
Custer, Fort, Montana	26.81	681.0	29.87	758.7	64	17.8	65	se.	4	1.8		0	6 s		calm	0	0	fair	W. B. Lamar.
Davenport, Iowa	29.22	742.2	29.85	758.2	68	20.0	93	ne.	7	3.1			10 s		ne.	0.51	13.0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.23	640.8	29.88	758.9	64	17.8	81	ne.	8	3.6			10 s			0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.33	719.6	30.04	763.0	55.6	13.1	73	sw.	2	0.9		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.50	647.7	29.93	760.2	62	16.7	70	sw.	4	1.8		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					73	22.8	50	s.	6	2.7		0	3 s		nw.	0.22	5.6	clear	D. J. Carr.
Delaware Breakwater, Del	29.99	761.7	30.01	762.2	70	21.1	100	ne.	10	4.5		6 ck	3 ks	e.		0.16	4.1	cloudy	T. S. Townsend.
Denison, Texas	29.13	739.9	29.91	759.7	68.0	20.0	78	calm	0	0		0	0			c	0	clear	J. McGlone.
Denver, Colorado	24.89	632.2	29.91	759.7	58.5	14.7	66	s.	2	0.9		0	0			inap.	inap.	clear	F. M. Neal.
Des Moines, Iowa	29.04	737.6	29.92	760.0	65	18.9	90	n.	6	2.7			10 s		n.	0.10	2.5	cloudy	F. W. Conrad.
Detroit, Michigan	29.24	742.7	29.93	760.2	70.6	21.4	94	ne.	9	4.0			10 s		ne.	0.73	18.5	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.44	697.0	29.92	760.0	59	15.0	85	n.	12	5.4		0	2 s		n.	0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.20	741.7	29.89	759.2	67.7	19.8	93	ne.	8	3.6			10 s			0.33	8.4	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.30	745.7	30.08	764.0	61	16.1	87	calm	0	0		8 ck	fg.			0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.16	740.7	29.95	760.7	69.0	20.6	84	nw.	1	0.4		0	0			inap.	inap.	clear	F. Belford.
Eagle Rock, Idaho	25.29	642.4	29.84	757.9	54	12.2	55	n.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.95	760.7	30.02	762.5	68.0	20.0	68	s.	2	0.9		0	hz.			0	0	clear	D. O. Murphy.
Elliott, Fort, Texas	27.26	692.4	29.90	759.4	58	14.4	72	nw.	2	0.9		5 k	0	nw.		0	0	fair	W. J. Oundall.
El Paso, Texas	26.28	667.5	29.88	758.9	75	23.9	54	e.	4	1.8		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.26	743.2	29.98	761.5	72	22.2	82	e.	3	1.3			10 s			0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.37	746.0	30.01	762.2	62	16.7	84	n.	12	5.4		4 c	3 s	sw.	n.	0	0	fair	George Heathcote.
Fredericksburg, Texas	28.33	719.6	30.04	763.0	76	24.4	90	calm	0	0		0	9 ks		ne.	inap.	inap.	cloudy	Frank Halwegler.
Galveston, Texas	29.86	758.4	29.91	759.7	81	27.2	88	w.	10	4.5		2 c	3 s	se.		0	0	fair	E. O'C. Macherney.
Grand Haven, Michigan	29.26	743.2	29.91	759.7	70.0	21.1	84	ne.	6	2.7		5 k	5 s	ne.	ne.	0.05	1.3	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.21	640.3	29.78	756.4	69.9	21.1	44	e.	4	1.8		0	0			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	29.88	758.9	29.90	759.4	77	25.0	88	w.	12	5.4		6 k	3 s	sw.		0.66	16.8	cloudy	R. M. Crawford.
Helena, Montana	25.82	655.8	29.91	759.7	63	17.2	58	sw.	4	1.8		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.00	736.6	30.00	762.0	69.0	20.6	84	n.	5	2.2		4 cs	0			0	0	fair	J. W. Byram.
Huron, Dakota	28.72	729.5	30.06	763.5	60.1	15.6	87	ne.	3	1.3		4 k	0	ne.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.06	738.1	29.83	757.7	70	21.1	90	w.	3	1.3		3 ck;k	7 s	s.	s.	0.27	6.9	cloudy	O. Schutze
Indianola, Texas	29.86	758.4	29.90	759.4	79.5	26.4	91	sw.	11	4.9		4 cs	hz.	ne.		inap.	inap.	fair	I. A. Reed.
Jacksboro, Texas	28.83	732.3	29.95	760.7	68	20.0	84	n.	2	0.9		1 c	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.97	761.2	30.01	762.2	80	26.7	79	sw.	12	5.5		3 cs	0	w.		0.65	10.5	clear	J. W. Smith.
Keogh, Fort, Montana	27.48	698.0	29.91	759.7	71	21.7	51	se.	21	9.4		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.19	741.4	29.82	757.4	68.0	20.0	93	calm	0	0			10 s			0.01	0.3	cloudy	F. Z. Gosewisch.
Key West, Florida	30.00	762.0	30.02	762.5	84.0	28.9	80	se.	5	2.2		0	0			0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	29.92	760.0	29.94	760.5	76	24.4	90	e.	8	3.6		0	6 ks			2.18	55.4	fair	E. A. Beals.
Knoxville, Tennessee	28.93	734.8	29.94	760.5	69.1	20.6	93	s.	1	0.4		2 ck	2 s	sw.		0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.19	741.4	29.94	760.5	68	20.0	84	n.	4	1.8			10 s			0.04	1.0	cloudy	S. C. Emery
La Mesilla, New Mexico	26.08	662.4	29.80	756.9	75.2	24.0	58	se.	1	0.4		0	8 s			0	0	cloudy	N. D. Lane.
Leavenworth, Kansas	29.05	737.9	29.91	759.7	67	19.4	90	nw.	6	2.7			10 s		n.	inap.	inap.	cloudy	A. W. Browne.
Lewiston, Idaho	29.18	741.2	29.99	761.7	69.5	20.8	44	n.	2	0.9		4 ck	0	s.		0	0	fair	W. Bell.
Little Rock, Arkansas	29.54	750.3	29.85	758.2	72	22.2	84	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.49	749.0	29.88	758.9	62.1	16.7	84	sw.	3	1.3		0	0			0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.28	743.7	29.83	757.7	73	22.8	84	se.	1	0.4		3 k	3 k;sk		s.	0.32	8.1	fair	H. C. Smyth.
Lynchburg, Virginia	29.27	743.4	29.94	760.5	72	22.2	90	ne.	3	1.3			10 s		n.	0.07	1.8	cloudy	Lewis Duane.
Macon, Fort, North Carolina	29.92	760.0	29.92	760.0	76	24.4	97	w.	4	1.8		8 c	0	sw.		0.38	9.7	cloudy	F. P. Chaffee.
Madison, Wisconsin	28.93	734.8	29.91	759.7	65	18.3	93	ne.	11	4.9			10 s		ne.	0.81	20.6	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.65	651.5			75	23.9	38	nw.	5	2.2		0	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.83	706.9	30.04	763.0	71	21.7	84	sw.	5	2.2			10 s			0.82	20.8	cloudy	J. E. Thatcher.
Marquette, Michigan	29.36	745.7	30.07	763.8	64	17.8	78	calm	0	0		3 ck	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.51	749.5	29.84	757.9	71	21.7	90	calm	0	0		0	1 k		sw.	0.30	7.6	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.18	741.2	29.91	759.7	66	18.9	93	ne.	13	5.8			10 s		ne.	0.42	10.7	cloudy	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.71	678.4	29.93	760.2	55	12.8	74	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	29.86	758.4	29.90	759.4	78	25.6	90	sw.	1	0.4	.....	1 c	1 ks	.....	sw.	0.01	0.3	clear	C. A. Read.
Montgomery, Alabama	29.68	753.9	29.91	759.7	77	25.0	85	sw.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.11	739.4	30.08	764.0	62.3	16.8	87	ne.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.96	735.6	29.96	761.0	71.0	21.7	90	e.	2	0.9	.....	.....	10 s	.....	sw.	0.01	0.3	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.07	611.4	30.15	765.8	55.0	12.8	77	ne.	8	3.0	.....	4 c	sk.	ne.	ne.	0	0	fair	J. G. Livsley.
Nashville, Tennessee	29.28	743.7	29.84	757.9	71.0	21.7	90	e.	3	1.3	.....	0	9 ks	.....	s.	0.43	10.9	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.96	761.0	30.07	763.8	68	20.0	78	n.	6	2.7	.....	6 c	sk.	.....	.....	0	0	fair	J. H. Sherman.
New London, Connecticut	30.03	762.7	30.08	764.0	71	21.7	76	w.	1	0.4	.....	2 c	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.83	757.7	29.88	758.9	80.0	26.7	88	sw.	3	1.3	.....	0	sk.	.....	.....	0.15	3.8	clear	L. Dunne.
Newport, Rhode Island	30.03	762.7	30.08	764.0	73.0	22.8	79	sw.	2	0.9	.....	5 c	1 s	ne.	.....	0	0	fair	W. McGillivray.
New York, New York	29.90	759.4	30.07	763.8	70	21.1	84	ne.	7	3.1	.....	4 cs	fg.	.....	.....	0	0	fair	J. B. Merrill.
Norfolk, Virginia	29.92	760.0	29.96	761.0	76	24.4	90	e.	7	3.1	.....	.....	10 ks	.....	se.	0.03	0.8	cloudy	Wm. Davis.
North Platte, Nebraska	27.21	691.1	30.01	762.2	59.6	15.3	87	ne.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.12	765.0	30.16	766.1	55.0	12.8	93	s.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	J. Dascomb.
Ogklamie, Pt. Barrow, Alas.	29.74	755.4	29.76	755.9	40.0	4.4	100	ese.	11	4.9	.....	.....	fg.	.....	.....	0	0	dense fog	P. H. Ray.
Omaha, Nebraska	28.83	732.3	29.97	761.2	66.7	19.3	91	n.	10	4.5	.....	.....	10 s	.....	n.	0	0	cloudy	A. Pollak.
Oswego, New York	29.72	754.9	30.04	763.0	72.5	22.5	73	se.	4	1.8	.....	4 c	0	w.	.....	0	0	fair	S. W. Beall.
Palestine, Texas	29.38	746.2	29.92	760.0	74.0	23.3	76	n.	4	1.8	.....	0	8 k	.....	w.	inap.	inap.	cloudy	L. M. Pindell.
Pensacola, Florida	29.89	759.2	29.92	760.0	78.1	25.6	88	s.	12	5.4	.....	.....	10 s	.....	sw.	0.62	15.7	threatening	M. McGauran.
Philadelphia, Pa.	29.97	761.2	30.07	763.8	68.5	20.3	92	ne.	10	4.5	.....	.....	10s;hz	.....	ne.	inap.	inap.	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.06	458.7	29.85	758.2	34	1.1	85	nw.	6	2.7	.....	0	0	.....	.....	0.09	2.3	clear	L. M. Dey.
Pioche, Nevada	24.10	612.1	29.80	759.9	64.8	18.2	48	w.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.15	740.4	29.94	760.5	72.3	22.4	82	ne.	6	2.7	.....	.....	10 s	.....	e.	0	0	cloudy	J. B. Turton.
Poplar River, Montana	27.90	708.9	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	29.93	760.2	29.94	760.5	77.4	25.2	84	sw.	27	12.1	.....	.....	10 n	.....	sw.	0.06	1.5	light rain	M. Hermann.
Port Huron, Michigan	29.27	743.4	29.93	760.2	67.2	19.6	90	e.	1	0.4	.....	.....	10 s	.....	e.	0.02	0.5	cloudy	W. O. Bailey.
Portland, Maine	30.00	762.0	30.05	763.3	71.0	21.7	76	sw.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.08	764.0	30.15	765.8	56.0	13.3	86	calm	0	0	.....	.....	10 ks	.....	w.	0	0	cloudy	M. L. Hearne.
Prescott, Arizona	24.81	630.2	29.79	756.7	63	17.2	75	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.04	763.0	30.08	764.0	74	23.3	76	e.	2	0.9	.....	3 cs	2 s	nw.	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.02	762.5	30.02	762.5	80.5	26.9	81	se.	11	4.9	.....	1 c	1 k	e.	calm	0	0	clear	W. J. Evans.
Red Bluff, California	29.54	750.3	29.90	759.4	71.3	21.8	42	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.73	755.1	29.97	761.2	76	24.4	85	se.	2	0.9	.....	.....	10 s	.....	se.	0.47	11.9	cloudy	H. S. Miles.
Rochester, New York	29.37	746.0	30.02	762.5	68	20.0	90	sw	1	0.4	.....	5 ck	2s;fg	.....	.....	0	0	fair	E. W. McGann.
Roseburg, Oregon	29.64	752.8	30.18	766.6	56	13.3	74	calm	0	0	.....	8 k	0	w.	.....	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.81	757.2	29.88	758.9	62.2	16.8	73	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.25	743.2	29.84	757.9	67.1	19.5	100	nw.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	J. H. Webber.
St. Paul, Minnesota	29.17	740.9	30.01	762.2	64.0	17.8	90	nw.	4	1.8	.....	.....	10 s	.....	ne.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.23	742.4	30.08	764.0	61	16.1	93	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.64	651.2	29.83	757.7	70	21.1	43	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.22	742.2	29.91	759.7	72.8	22.7	76	calm	0	0	.....	2 ck	3 s	.....	.....	0	0	fair	T. J. Kenan.
San Diego, California	29.78	756.4	29.85	758.2	65.3	18.5	92	nw.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.23	742.4	29.89	759.2	71.3	21.8	90	se.	5	2.2	.....	.....	10 s	.....	s.	0.21	5.3	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.03	762.7	30.06	763.5	72.0	22.2	82	ne.	11	4.9	.....	8 ck	0	ne.	.....	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.89	759.2	29.95	761.0	55	12.8	86	sw.	6	2.7	.....	0	0	.....	.....	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.37	593.6	29.86	758.4	58	14.4	67	e.	5	2.2	.....	0	0	.....	.....	0.01	0.3	clear	H. U. Jones.
Savannah, Georgia*	29.89	759.2	29.98	761.5	84	28.9	72	sw.	8	3.6	.....	6 ck	0	.....	.....	0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.36	669.5	29.88	758.9	55	12.8	69	w.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	A. L. Mathews.
Shreveport, Louisiana	29.64	752.8	29.87	758.7	72	22.2	84	w.	3	1.3	.....	0	6 k	.....	w.	0	0	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.75	730.2	29.93	760.2	66.5	19.2	77	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Silver City, New Mexico	24.34	618.2	29.80	756.9	61	16.1	58	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	30.06	763.5	30.12	765.0	50	10.0	86	nw.	14	6.3	.....	.....	fg.	.....	nw.	0	0	dense fog	J. J. McLean.
Smith, Fort, Arkansas	29.41	747.0	29.87	758.7	68.0	20.0	90	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	29.90	759.4	29.94	760.5	78	25.6	90	nw.	1	0.4	.....	3 cs	6 ks	.....	w.	0.15	3.8	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.03	711.9	30.03	762.7	60	15.6	67	s.	7	3.1	.....	9 k	0	sw.	.....	0.12	3.0	cloudy	D. Moore.
Springfield, Illinois	29.16	740.7	29.82	757.4	66.9	19.4	91	n.	2	0.9	.....	0	4s;fg	.....	s.	inap.	inap.	fair	T. B. Jennings.
Springfield, Massachusetts	29.96	761.0	30.09	764.3	72.1	22.3	66	ne.	2	0.9	.....	9 c	0	w.	.....	0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.48	723.4	29.87	758.7	64	17.8	97	n.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog	J. B. Marbury.
Starkville, Miss.	29.38	746.2	29.85	758.2	80.4	26.9	79	sw.	6	2.7	.....	1 cs	3 s	.....	.....	0	0	fair	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.27	718.0	30.05	763.3	64	17.8	84	e.	2	0.9	.....	5 c	0	w.	.....	0	0	fair	W. Burrows.
Stockton, Fort, Texas	27.05	687.1	29.99	761.7	66.0	18.9	90	e.	8	3.6	.....	.....	10 n	.....	e.	0.05	1.3	light rain	J. O'Dowd.
Thomas Camp	27.16	689.9	29.78	756.4	71	21.7	64	calm	.....	.....	0	0	0	.....	.....	0	0	clear	
Thatcher's Island, Mass.	30.03	762.7	30.08	764.0	71.5	21.9	82	s.	1	0.4	.....	5 c	0	w.	.....	0	0	fair	G. Liebmann.
Toledo, Ohio	29.22	742.2	29.89	759.2	72	22.2	90	e.	6	2.7	.....	.....	10 ks	.....	ne.	0.98	24.9	clearing	A. Buell.
Tucson, Arizona	27.46	697.5	29.80	756.9	76	24.4	58	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.73	755.1	30.09	764.3	63	17.2	55	sw.	16	7.2	.....	1 ck	1 k	w.	sw.	0	0	clear	J. Daly.
Uvalde, Texas	28.97	735.8	29.91	759.7	69	20.6	84	sw.	2	0.9	.....	7 cs	0	se.	.....	inap.	inap.	fair	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	72.4	22.4	48	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.64	752.8	29.88	758.9	74	23.3	90	ne.	2	0.9	.....	.....	9 s	.....	.....	1.03	26.2	cloudy	James Kenealy.
Visalia, California	29.51	749.5	29.88	758.9	69	20.6	42	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	W. L. Seward.
Washakie, Fort, Wyoming	24.58	624.3	29.92	760.0	60.8	16.0	68	nw.	4	1.8	.....	1 k	0	.....	.....	0.08	2.0	clear	T. M. Ambler.
Washington, D. C.	29.91	759.7	30.02	762.5	72.3	22.4	93	e.	4	1.8	.....	.....	10 s	.....	e.	0.01	0.3	cloudy	F. M. M. Beall.
West Las Animas, Colorado	26.13	663.7	29.88	758.9	58	14.4	94	ne.	6	2.7	.....	0	0	.....	.....	0.02	0.5	clear	F. H. Brandenburg
Williamsport, Pa.	29.47	748.5	30.05	763.3	67	19.4	87	se.	1	0.4	.....	4 k	6 ks	.....	se.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.99	759.4	29.95	760.7	78	25.6	90	calm	0	0	.....	9 c; k	0	.....	.....	0.30	9.9	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.62	650.7	29.85	758.2	58.5	14.7	38	s.	8	3.6	.....	0	3 s	.....	sw.	0	0	clear	J. Grover.
Yankton, Dakota	28.77	730.7	30.04	763.0	65	18.3	78	n.	5	2.2	.....	10 ck	0	.....	.....	0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.55	750.6	29.69	754.1	83.0	28.3	59	w.	1	0.4	.....	0	2 s	.....	.....	0	0	clear	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	53.5	11.9	71	s.	6	2.7	.....	0	4 s	.....	w.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I.	30.10	764.5	30.11	764.8	82	27.8	87	e.	.....	.....	.....	1 k	3 ks	e.	ne.	0	0	.....	J. A. Racker.
Buenaventura, U. S. C.	29.92	760.0	29.95	760.7	78	25.6	86	calm	0	0	.....	.....	10 ks	.....	s.	0.40	10.2	cloudy	J. I. Plume.
Havana, Cuba†	29.97	761.2	30.03	762.7	80	26.7	62	calm	0	0	.....	.....	0	.....	.....	0	0	clear	Robert Johnston.
Kingston, Jamaica, W. I.	30.02	762.5	30.03	762.7	80.1	26.7	76	calm	0	0	.....	8 c;cs	0	e.	.....	0	0	fair	S. M. Pike.
Magua, San Domingo, W. I.	.....	.....	.....	.....	72	22.2	.....	calm	.....	.....	0	0	0	.....	.....	0.05	1.3	.....	F. M. Everett.
Navassa	29.99	761.7	30.07	763.8	81	27.2	78	e.	7	3.1	.....	2 cs	4 k	se.	e.	0	0	fair	Chas. Hasselbrink.
Paramaribo, S. A.	30.08	764.0	30.08	764.0	79	26.1	82	se.	.....	.....	2	4 c	3 s	e.	.....	0.370	9.4	.....	Dr. C. J. Hemg.
Puerto Berrio, U. S. Col'mba	29.35	745.5	29.91	759.7	79	26.1	63	calm	.....	.....	0	1 c	0	calm	.....	0	0	clear	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	97	ne.	.....	.....	1	3 ck	5 ks	se.	ne.	0.01	0.3	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.88	758.9	29.93	760.2	53	11.7	93	se.	.....	.....	5	.....	10 n	.....	.....	0.26	6.6	light rain	W. J. Fisher.
St. Thomas, W. I.	29.98	761.5	30.11	764.8	83	28.3	80	e.	.....	.....	.....	.....	3 k	.....	e.	0	0	clear	Aug. Walloe.
York Factory, B. A.	30.03	762.7	30.09	764.3	48.0	8.9	92	n.	13	5.8	.....	2 c	0	n.	.....	0	0	fair	Fortesque & Wood.

* Observation 30 minutes late.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, N. 14° 09′ W. 25° 56′	30.21	767.3	83.5	28.6	81	nne.			1		5							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.90	759.4	79	26.1	84	nnw.			2		3	nnw.				2	nnw.	d. clouds.
H. M. S. Amethyst, S. 27° 27′ W. 48° 34′	30.41	772.4	62.5	16.9	75	n.			1		6	n.						d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.80	756.9	82	27.8		n.			3		6	n.						d. clouds.
H. M. S. Arab, Muscat, Arabia	29.49	749.0	91.5	33.1	76	calm			0		1							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.25	768.3	59.5	15.3		ese.			1		0							blue sky.
H. M. S. Champion, N. 41° 15′ E. 140° 11′			75	23.9	95	nne.			5		4					3	nne.	squally.
H. M. S. Comus, Esquimalt, Vancouver Island	30.06	763.5	55	12.8	87	calm			0		2							d. clouds.
H. M. S. Diamond, S 9° 55′, E. 159° 17′	29.89	759.2	79	26.1	90	sw.			1-2		10					1	sw.	raining.
H. M. S. Dido, N. 17° 00′, W. 62° 00′	30.13	765.3	82	27.8		ese.			2		2	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	29.88	758.9	77.5	25.3	95	ese.			3-4		5	ese.						d. clouds.
H. M. S. Druid, N. 49° 40′, W. 23° 20′	30.39	771.9	59	15.0	100	sse.			2-3		10					1	se.	foggy.
H. M. S. Emerald, N. 34° 30′, W. 29° 00′	30.36	771.1	76.5	24.7	100	ne.			2		4	ne.				1	ene.	d. clouds.
H. M. S. Espiegle, S. 14° 18′ E. 167° 22′	29.91	759.7	78	25.6	82	calm			0		0							blue sky.
H. M. S. Fantome, N. 11° 41′ W. 68° 37′	29.99	761.7	83	28.3		ese.			5		7	ese.				2	ese.	d. clouds.
H. M. S. Flying Fish, N. 37° 27′ E. 126° 33′	29.51	749.5	72	22.2	95	ese.			1		10							raining.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	29.99	761.7	59.5	15.3	82	se.			1		8							d. clouds.
H. M. S. Garnet, N. 36° 50′ W. 29° 30′	30.40	772.1	76	24.4	86	wsw.			1		5					1	cross	d. clouds.
H. M. S. Griffon, N. 47° 34′, W. 59° 10′	29.95	760.7	55.5	13.1	87	calm			0		10							d. clouds.
H. M. S. Iron Duke, N. 49° 01′ E. 140° 34′	29.97	761.2	59	15.0	94	sw.			4-6		10					4		dense fog.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.95	760.7	75.3	24.1	92	calm			0		4							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.94	760.5	56	13.3		calm			0									d. clouds.
H. M. S. Magpie, N. 35° 07′, E. 128° 40′	29.66	753.4	80.0	26.7	80	e.			2-4		10							showery.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.90	759.4	80.5	26.9	78	nw.			3		1							misty.
H. M. S. Northampton, Halifax, Nova Scotia	29.97	761.2	70.5	21.4	75	calm			0		9	nw.						d. clouds.
H. M. S. Orontes, N. 36° 18′, E. 4° 00′	30.06	763.5	77.5	25.3	86	calm			0		0						se.	misty.
H. M. S. Pegasus, N. 5° 24′, E. 100° 20′	29.85	758.2	84	28.9	79	nw.			2		10							overcast.
H. M. S. Rambler, S. 10° 26′ W. 11° 50′	30.11	764.8	74	23.3	95	se.			4		7	ese.				4	ssw.	d. clouds.
H. M. S. Sappho, Honolulu, Sandwich Islands	30.05	763.3	74	23.3	81	ne.			1		3							d. clouds.
H. M. S. Swiftsure, Sandy Point, Patagonia	29.95	760.7	39	3.9	91						5	ssw.						d. clouds.
H. M. S. Tenedos, N. 51° 20′ W. 55° 36′	29.82	757.4	51	10.6	100	calm			0		10							misty.
H. M. S. Triumph, S. 52° 40′, W. 70° 00′	29.97	761.2	37	2.8	90	w.			1-2		0							blue sky.
H. M. S. Woodlark, Jask, Persia	29.40	746.7	93.5	34.2	85	sw.			3-4		0					2	sw.	blue sky.
H. M. S. Zephyr, N. 46° 01′, E. 140° 07′	30.00	762.0	69	20.6	100	e.			2		0					1	s.	blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Bulama, Senegambia	30.10	764.4	80.6	27.0	87	calm			0		4			6 h'r	6 h'r			raining.
Tamega, Hong Kong, China	29.57	751.0	83.8	28.8	83	calm			0		9							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	29.87	758.7	77	25.0	91	sw.	13	5.8			10		calm	0.45	11.4			cloudy.
Navy Yard, Portsmouth, N. H.	30.10	764.5	65	18.3	?	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.88	758.9	76.5	24.7	91	nne.			3		10		se.	0.20	5.1			gloomy.
Adams, Mare Island, Cal.			59	15.0	88	sw.			2		0			0	0	sm'h		clear.
Alaska, S. 10° 05′, W. 89° 00′	29.95	760.7	68	20.0	70	se.			1		8		se	0	0	long	s.	fair.
Alliance, Boston, Mass.	30.07	763.8	71	21.7	85	w.			1		2			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan*	29.90	759.4	77	25.0	95	ene.			2		10		e.					rainy.
Brooklyn, Rio de Janeiro, Brazil	30.43	772.9	63	17.2	100	nw.	2	0.9			10		calm	0	0	sm'h		cloudy.
Colorado, New York, N. Y.	30.06	763.5	71	21.7	90	ne.	2	0.9			2			0	0			misty.
Constellation, Staten Island, N. Y.*	30.10	764.5	70	21.1	90	nne.			1		5		nne.			sm'h		hazy.
Enterprise, Boston, Mass.	30.05	763.3	69	20.6	94	nw.			1		2		calm					clear.
Essex, off Coquimbo, Chili	30.05	763.3	56	13.3	75	se.			2		10					sm'h		foggy.
Franklin, Norfolk, Va.	29.98	761.5	76	24.4	95	ese.	9.6	4.3			8		e.	0.02	0.5			fair.
Galena, N. 32° 54′, W. 14° 56′	30.21	767.3	71	21.7	95	ne.			3		10					sm'h		cloudy.
Independence, Mare Island, Cal.	29.96	761.0	58	14.4	100	sw.			3		0			0	0			clear.
Iroquois, N. 27° 20′, W. 115° 38′	29.92	760.0	65	18.3	94	nw.			4		10		nw.	0	0	sm'h	nw.	cloudy.
Kearsarge, Norfolk, Va.	29.95	760.7	76	24.4	100	ene.			2		10		ese.					cloudy.
Lackawana, Callao, Peru*	29.96	761.0	60	15.6	88	se.			1		10							misty.
Lancaster, Villafranca, France*	29.92	760.0	84	28.9	75	s.			1		0			0	0			clear.
Marion, S. 34° 54′, W. 56° 13′	30.12	765.0	55	12.8	100	sse.			6		10		s.	light	light	sm'h		cloudy.
Michigan, Milwaukee, Wisconsin	29.86	758.4	68	20.0	90	nne.			2		10		ne.					cloudy.
Minnesota, N. 42° 23′, W. 71° 35′	30.01	762.2	75	23.9	77	calm	0	0			2							
Monocacy, Che Foo, China	29.60	751.8	74	23.3	76	n.			2		0					long	ne.	clear
New Hampshire, Newport, R. I.	30.03	762.7	71	21.7	90	nw.			1		10		sw.			sm'h		clear.
Nipsic, N. 41° 19′ E. 10° 05′*	29.91	759.7	79	26.1	74	ne.			1		0					sm'h		clear.
Onward, Callao, Peru†	30.11	764.8	58	14.4	100	sse			3		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.63	752.6	78	25.6	78	ene.			6		10		ene.					cloudy.
Passaic, Washington, D. C.	30.04	763.0	72	22.2	?	ne.			2		10		e.					cloudy.
Pensacola, Panama, Panama*	29.80	756.9	78	25.6	91	nw.	3	1.3			5			0	0	sm'h		fair.
Portsmouth, N. 43° 43′, E. 8° 08′*	29.91	759.7	79	26.1	70	ese.			1		2					sm'h		fair.
Powhatan, N. 36° 20′, W. 75° 32′	29.93	760.2	76	24.4	100	ene.			2		8		ene.			long	e.	cloudy.
Quinnebaug, Alexandria, Egypt*	29.87	758.7	80	26.7	91	nw.			3		0					sm'h		hazy.
Ranger, Mare Island, Cal.	29.90	759.4	60	15.6	82	sw.			2		0			0	0			clear.
Richmond, Yokohama, Japan*	29.89	759.2	78	25.6	95	e.			2		10			0.2	5.1			cloudy.
Saratoga, N. 44° 14′, E. 8° 43′	29.81	757.2	73	22.8	100	s.			2		0			0	0	sm'h		clear.
St. Louis, League Island, Pa.	30.27	768.8	68	20.0	95	ne.			3		10			0	0			cloudy.
Swatara, Kobe, Japan*	29.54	750.3	78	25.6	82	ene.			7		10		ene.			r'gh	e.	light rain.
Tennessee, Boston, Mass.	30.12	765.0	70	21.1	80	calm	0	0			2			0	0			misty.
Vandalia, Portsmouth, N. H.*	30.04	763.0	70	21.1	85	calm			0		0							clear.
Wabash, Boston, Mass.	30.07	763.8	69	20.6	80	calm	0	0			0			0	0			hazy.
Wachusetts, N. 56° 08′ W. 134° 52′ †	30.32	770.1	49	9.4	93	nw.			3		2		calm	0	0	sm'h		clear.
Wyoming, Port Royal, S. C.*	29.93	760.2	77	25.0	86	sw.	9	4.0			8		wsw.	0	0			cloudy.
Yantic, Boston, Mass.	30.08	764.0	69	20.6	90	calm			0		5							fair.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 49° 15′, W. 60° 45′.*	29.80	756.9	57	13.9	93	wsw.			4		10		sw.	0.01	0.3	2	wsw.	overcast.
S. S. Grecian, Glasgow, Scotland*.	30.23	767.8	68	20.0		wnw.			5		9		wnw.					cloudy.
S. S. Scandinavian, N. 53° 36′ W. 10° 23′.	30.19	766.8	59	15.0		wnw.			3		10		wnw.	0	0	light	nw.	misty.
S. S. Waldensian, N. 48° 17′ W 44° 20′ *.	29.99	761.7	69	20.6		sse.			2		fg		sse	4 h'r	4 h'r	mod.	sw.	foggy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N 50° 50′. W. 15° 12′†.	30.57	776.5	61	16.1		nnw.			2		2		nnw.	0	0	sm'h		clear.
S. S. Indiana, N. 39° 49′, W. 58° 39′.†.	30.35	770.9	76	24.4	95	wnw.			3		5		w.			sm'h	w.	fine.
S. S. Lord Clive, Philadelphia, Pa.*†.	29.99	761.7				e.			2		4		e.	0	0			fine.
S. S. Ohio, Philadelphia, Pa.†.	29.97	761.2	71	21.7	95	n.			3		6		n.					cloudy.
AMSTERDAM LINE.																		
S. S. Stella, N. 47° 07′, W. 40° 36′.			71.6	22		w.			2		5		w.	3 h'r	3 h'r	3	w.	d. clouds.
ANCHOR LINE.																		
S. S. Alexandria, Messina, Sicily.	29.93	760.2	78	25.6		nne.			4		2		nne.	0	0			clear.
S. S. Assyria, N. 42° 00′, W 50° 54′†.	30.03	762.7	68	20.0		w.			1		5		w.	0	0	sm'h		clear.
S. S. Bolivia, Greenock, Scotland†.	29.85	758.2	59	15.0		wnw.			5		8		w.	0	0			cloudy.
S. S. Devonia, N. 46° 34′, W. 41° 36′†.	30.12	765.0	58	14.4		s.			1		0					light	cross	clear.
S. S. Dorian, N. 42° 14′ W. 46° 38′*.	29.89	759.2	73	22.8		sw.			4		5		sw.	0	0	mod.	w.	fine.
S. S. Ethiopia, New York, N. Y.	30.09	764.3	74	23.3	?	ne.			3		5?		ne.	0	0			cloudy.?
ATLAS LINE.																		
S. S. Alisa, Savanilla, U. S. C†.	29.92	760.0	84	28.9	79	ne.			3		2		ne.	0	0			fair.
S. S. Alene, Port au Prince, Hayti, W. I†.	30.04	763.0												0	0			clear.
S. S. Alpin, Mayaguez, Porto Rico, W. I.	29.99	761.7				se.			1		1		ese.	0	0			clear.
S. S. Alvo, N. 28° 42′, W. 74° 17′.	30.08	764.0				wsw.			2		1			0	0	sm'h	wsw.	clear.
S. S. Antillas, N. 27° 45′, W. 68° 40′.			84	28.9		sw.			4		4		sw.	0	0	h'vy	sw.	squally.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 40° 05′ E. 3° 35′.	30.16	766.1	55	12.8	87	nw.			4		6							blue sky.
S. Baroda, S. 7° 16′, W. 9° 58′.	30.16	766.1	74.4	23.6	79	se.			3		3							d. clouds.
Bk. Caldew, S. 33° 40′, W. 16° 08′.	29.79	756.7	61	16.1	73	wnw.			8		5							d. clouds.
Bk. Commewyne, N. 38° 18′, W. 42° 16′.	30.16	766.1	78.5	25.8	77	e.			2		0							d. clouds.
S. S. City of Agra, S. 39° 05′, W. 22° 35′.	29.70	754.4	48	8.9	85	ssw.			6		10							overcast.
S. S. Minho, N. 14° 15′, W. 24° 19′.	30.12	765.0	82.4	28.0	85	sse.			1		5							d. clouds.
May Hulse, N. 30° 35′, W. 38° 57′.	30.27	768.8	79	26.1	69	ese.			3		3							blue sky.
S. S. Mertola, N. 46° 58′, W. 19° 15′.	30.43	772.9	64.1	17.8	83	ne.			5		7							d. clouds.
S. S. Oamaru, S. 7° 37′, W. 14° 49′.	30.15	765.8	76.5	24.7	72	ne.			3-4		2							blue sky.
S. S. Pole Star, N. 46° 56′, W. 26° 04′.	30.37	771.4	63.8	17.7	100	s.			5		8							drizzling.
S. S. Rosetta, N. 19° 15′, E. 114° 15′.	29.58	751.3	79.5	26.4	82	ssw.			6		10							threatening.
CROMWELL LINE.																		
S. S. Hudson, N. 27° 00′, W. 86° 35′ †.	30.06	763.5	78	25.6		sw.			6		9		sw.	1 h'r	1 h'r	mod.	s.	overcast.
CUNARD LINE.																		
S. S. Marathon, Portsmouth, Eng.	30.41	772.4	63	17.2		nw.			2		2		nw.	0	0	sm'h	nw.	fine.
S. S. Scythia, N. 41° 18′, W. 61° 41′.	30.01	762.2	68.5	20.3	92	calm			0		1		ne.	0	0			fair.
DONALDSON LINE.																		
S. S. Colina, N. 36° 59′. W. 76° 05′†.	30.10	764.5				ese.			2		4?		e.			sm'h		cloudy?
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Ville de Marseilles, N. 37° 18′, W. 17° 40′*†.	30.15	765.8	70	21.1		nnw.			5		8		nw.	0	0	long	nw.	cloudy.
GUION LINE.																		
S. S. Wisconsin, N. 42° 12′, W. 54° 25′.	30.03	762.7	72	22.2		n.			3		2		n.	0	0	sm'h		fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Herder, Havre France*.	29.96	761.0	68	20.0		ene.			3		2?		ne.	0	0			cloudy.?
S. S. Silesia, Elbe River, Germany.	29.86	758.4	61.3	16.3		w.			9				w.	0	0			overcast.
S. S. Westphalia, New York, N. Y.	29.89	759.2	73	22.8	95	ene.			1		2			0	0			fair.
S. S. Wieland, N. 40° 22′, W. 69° 33′.	30.08	764.0	69	20.6		ne.			2		1		n.	0	0	4	sse.	clear.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Buenos Ayres, S. A.*†.	30.29	769.4	50	10.0		sw.			5		10		sw.	7 h'r	7 h'r			thund'r st'm.
MALLORY LINE.																		
S. S. City of San Antonio, N. 38° 50′, W. 74° 10′*†.	30.14	765.5				ne.			2		5		ne.	0	0	mod.	ne.	fair.
S. S. Colorado, N. 25° 04′, W. 84° 31′†.	30.01	762.2	84	28.9		se.			2		0			0	0	small	se.	clear.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 38° 11′ W. 43° 11′*†.	30.20	767.1	74	23.3	90	e.			2		2		ene.	0	0	mod.	ne.	clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 12° —′, W. 53° —′†.	30.01	762.2				ese.			4		3		e.	1 h'r	1 h'r	sm'h		clear.
MORGAN LINE.																		
S. S. Chalmette, New York, N. Y.†.	30.09	764.3	77	25.0		nne.			1		2			0	0			clear.
S. S. New York, N. 24° 28′, W. 82° 30′†.	30.20	767.1	83.0	28.3		e.			5		2		e.			sm'h		clear.
NATIONAL LINE.																		
S. S. Denmark, N. 40° 26′, W. 69° 18′.	30.08	764.0	70	21.1		ene.			1		0			0	0	slight	sse.	clear.
S. S. Erin, N. 43° 11′ W 42° 41′.	30.10	764.5	74	23.3	58	s.			5		2		ssw.	0	0	long	nne.	fine.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 20° 15′, W. 74° 03′†.	30.12	765.0	81	27.2		ne.			2		2		ene.	0	0	sm'h		fine.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W. I †.	30.06	763.5	80	26.7	96	calm			0		2		s.	0	0			clear.
S. S. City of Washington, Vera Cruz, Mexico *†.	30.00	762.0	85	29.4		n.			1		10		ne.	0 h'r	0 h'r	sm'h		cloudy.
NORTH GERMAN LLOYD.																		
S. S. Ohio, N. 41° 41′, W. 45° 15′.	30.15	765.8				wsw.			5		3		w.	0	0	mod.	wsw.	fair.
S. S. Salier, N. 45° 23′, W. 52° 38′.	30.04	763.0	50.9	10.5		nw.			3		10		nw.	2 h'r	2 h'r	mod.	w.	sprinkling.
S. S. Strassburg, N. 45° 20′, W. 39° 20′.	30.11	764.8	63.0	17.2	100	nnw.			3		2		nnw.	0	0	mod.	ne.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 41° 13′, E. 166° 49′†.	30.11	764.8	64	17.8	89	wnw.			4		10		w.	0	0	mod.	w.	cloudy.
S. S. Coptic, N. 32° 41′, E. 134° 40′.	29.46	748.3	80	26.7	93	ene.			6		10		e.	4 h'r	4 h'r	0	ene.	showery.
S. S. Gaelic, N. 36° 23′, E. 145° 27′†.	30.30	771.1	80	26.7	91	se.			5		0		se.			mod.	s.	showery.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†.	30.04	763.0				sw.			1		6?		w.	0	0			clear?
S. S. Seminole, Nantucket Shoals, Mass.†.	30.12	765.0	72	22.2	90	calm			0		fg			0	0	sm'h		dense fog.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 39° 40′, W. 124° 08′.†.	30.03	762.7	54	12.2	100	nnw.			6		2		nnw.			r'gh	nnw.	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal†.	29.88	758.9	53	11.7	93	sw.			1		0							clear.
S. S. City of Chester, San Pedro, Cal.*†.	29.92	760.0	64	17.8	100	calm			0		10		nw.			sm'h	nw.	cloudy.
S. S. Idaho, N. 47° 16′, W. 122° 21′†.	30.18	766.6	57	13.9	?	se.			2		8		se.	0	0	sm'h		cloudy.
S. S. State of California, San Francisco, Cal†.	29.95	760.7	53	11.7	86	sw.			2		0							clear.
S. S. Victoria, San Francisco, Cal†.	29.94	760.5	55	12.8	100	sw.			1		2			0	0	sm'h		hazy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	29.89	759.2	50	13.3	87	n.			4		5		nnw.	0	0			clear ?
S. S. City of New York, Sydney, N. S. W†.	29.71	754.0	51	12.2	74	w.			2		5		w.					fair.
S. S. City of Pekin, N. 42° 30′, W. 134° 49′†.	30.47	773.9	63	17.2	83	w			4		5		w.	0	0	light	nw.	fair.
S. S. City of Rio de Janeiro, N. 10° 45′, W. 86° 35′*†.	30.09	764.3	81	27.2	87	nne.			4		8		nne.	1 h'r	1 h'r	mod.	nne.	fine.
S. S. City of Sydney, N. 29° 04′, W. 143° 52′†.	30.21	767.3	74	23.3	76	e.			4		8		ene.	0	0	mod.	ene.	cloudy.
S. S. City of Tokio, Hong Kong, China†.	29.66	753.4	81	27.2	87	calm			0		0			0	0			fine.
S. S. Colon, N. 26° 10′, W. 73° 49′†.	30.16	766.1	82	27.8		calm			0		1		ne.	0	0	sm'h		clear.
S. S. Grenada, N. 7° 08′, W. 81° 33′†.	29.85	758.2	80	26.7	91	s.			1		10		s.	4 h'r	4 h'r	sm'h	ssw.	cloudy.
S. S. Zelandia, N. 27° 12′, W. 146° 21′.	30.22	767.0	71	23.3	99	var.			1		8		sw.			sm'h		fine.
QUEBEC STEAMSHIP CO.																		
S. S. Bermuda, N. 25° 34′, W. 66° 11′†.	30.11	764.8	84	28.9		calm			0		2		calm	0	0	sm'h		fine.
S. S. Muriel, N. 23° 50′, W. 65° 30′.	30.02	762.5	83	28.3		calm			0		10			0	0	sm'h		overcast.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
RED D LINE.																		
S. S. Valencia, N. 35° 06′ W. 71° 00,*†	30.28	769.1	84	28.9	75	nw.			4		1		w.	3 h'r	3 h'r	mod.	w.	fair.
RED STAR LINE.																		
S. S. Belgenland, Philadelphia, Pa.†	30.23	767.8	76	24.4	86	calm			0		0							
S. S. Nederland, N. 46° 16′, W. 33° 26′†	30.02	762.5	67.5	19.7	97	ssw.			6		10		s.			r'gh	sw.	misty.
S. S. Rhynland, Antwerp, Belgium*†	30.49	774.4	68	20.0	70	nw.			6		6		n.	0	0	sm'h		squally.
S. S. Vaderland, Jersey City, N. J.	29.91	759.7	73	22.8	85	calm			0		0			0	0			clear.
S. S. Waesland, Jersey City, N. J.	30.03	762.7	76	24.4		n.			3		2		nne.	0	0			fair.
ROTTERDAM LINE.																		
S. S. Edam N. 40° 35′, W. 69° 23′†	30.02	762.5	73.8	23.2	87	se.			3		3		se.	0	0	mod.	se.	
S.S. Schiedam, N. 41° 10′ W 62° 30′	30.10	764 5	69.4	20.8	81	w.			2		8		w.	0	0	sm'h		cloudy.
S. S. W. A. Scholten, N. 49° 08′, W. 20° 52′*	30.36	771.1	65.1	18.4	84	sse.			3		9		se.	0	0		se.	
STATE LINE.																		
S. S. State of Florida, New York. N. Y.	30.00	762.0	78	25.6		ene.			2		3			0	0			fair.
S. S. State of Georgia, N. 48° 14′ W. 40° 25 †	30.03	762.7	58	14.4		nw.			3		0			0	0	sharp	se.	clear.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 52° 00′, W. 35° 19′†	30.08	764.0	55.4	13.0	93	ssw.			3		10		ssw.	2 h'r	2 h'r	long	ssw.	
WARREN LINE																		
S. S. Iowa. N. 42° 29′, W. 66° 36′*†	30.20	767.1	59	15.0		calm			0		0			0	0	sm'h		clear.
W. I. & PACIFIC S. S. CO.																		
S. S. Venezuela, N. 48° —′, W. 25° —′*	30.28	769.1	66	18.9	84	sse.			4		8		se.			sm'h		foggy.
WHITE CROSS LINE.																		
S. S. Plantyn, New York, N. Y.	30.05	763.3							2		3			0	0	sm'h		
WHITE STAR LINE.																		
S. S. Adriatic, Liverpool, Eng*†	30.45	773.4	61	16.1	88	wnw.			5		2		nw.					clear.
S. S. Baltic, N. 49° 03′, W. 30° 25′	30.15	765.8	63	17.2	94	s.			5		8		s.	0	0	3	s.	misty.
S. S. Celtic, N. 42° 24′, W. 58° 48′†	30.10	764.5	60	18.9	94	wnw.			3		0			0	0	sm'h		fine.
S. S. Germanic, N. 47° 41′, W. 33° 02′†	30.08	764.0	62	16.7		sse.			6		10		sse.	12 h'r	12 h'r	con.		raining.
S. S. Republic, N. 40° 42′, W. 67 39′†	30.23	767.8	68	20.0	95	ene.			1		0			0	0	sm'h		misty.
WILSON LINE.																		
S.S. Romano, N. 45° 48′, W. 35° 08′	29.99	761.7	64	17.8		sw.			4		10		sw.	0	0	mod	s.	overcast.
WINSOR LINE.																		
S. S. Aries, N. 39° 00′, W. 75° 05′†*	30.00	762.0				ene.			7		8		e.	0	0	sm h		cloudy.
S. S. Catherine Whiting, Providence, R. I.†	30.12	765.0	72	22.2		ne.			1		0			0	0			
MISCELLANEOUS.																		
Bk. Adelaide, N. 37° 42′, W. 66° 03′*†	30.13	765.3	82	27.8		se.			4		5		ese.	5 h'r	5 h'r	mod.	se.	raining.
Schr. Ajax, N. 35° 16′ W. 74° 29′†	29.99	761.7				w.			1		9		nnw.	0	0	mod.	ssw.	clearing.
Bk. Alpha, N. 54° 50′, W 25° 40′†	30.27	768.8	60	15.6		ssw.			6		8		ssw.	1 h'r	1 h'r	mod.	ssw.	cloudy.
Bk. Anna Thorman, S. 38° 32′, E. 82° 15′	29.87	758.7	53.2	11.8	83	w.			8		5 km?		w.	sh'rs	sh'rs	high	w.	cloudy?
S. S. Antonio Lopez, Havana, Cuba, W. I.*	30.05	763.3	78	25.6	95	calm			0		0			0	0			hazy.
Bk. Argonaut, N. 43° 46′, W. 54° 08′*†	30.02	762.5	59.9	15.5		wnw.			1		10		wnw.	0	0	mod.	wnw.	cloudy.
Bk. Aureola, S. 3° 35′, W. 35° 16′*†	30.25	768.3	83	28.3		sse.			6		2		sse.	0	0	mod	sse.	clear.
Bk. B. F. Watson, N. 33° 12′, W. 46° 45′†	30.12	765.0	78	25.6		s.			5		4		s.	8 h'r	8 h'r	mod.	s.	fair.
Bk. Bremen, N. 55° 56′. W. 11° 21′						wnw.			5		9		wnw.	4 h'r	4 h'r	mod.	wnw.	cloudy.
S. S. Burswell, Verdon Roads, France*†	30.28	769.1	80	26.7		nnw.			3		0			0	0			very fine.
Bk. Cato, Malmö, Sweden*†	29.77	756.1				w.			6									cloudy.
Bk. Celestina, N. 5° 39′ W. 23° 58′*†	30.06	763.5				se.			2		3		sse.			sm'h		
Schr. C. R. Flint, N. 37° 40′, W. 74° 23′†	30.15	765.8	74	23.3		e.			2		5		e.	0	0	mod.	ene.	fair.
S. Cornelius, N. 46° 07′, W. 10° 56′*†	30.60	777.2	57.2	14.0		ene.			6		5		e.	0	0	long	ne.	fair.
S. S. D. J. Foley, N. 37° 52′, W. 74° 48′†	29.93	760.2				ene.			5		10		e.	mist	mist	mod.	ene.	misty.
S. Dora, N. 7° 05′ W. 21° 45′†	30.16	766.1	80.6	27.0		s.			3		5		s.	0	0	mod.	s.	fair.
Schr. Edith R. Seward, N. 35° 15′, W. 74° 15′*†	29.98	761.5	83	28.3		wnw.			1		9		nw.	¼ h'r	¼ h'r	r'gh	ne.	sprinkling.
S. E. J. Spicer, New York. N. Y*.	30.03	762.7	72	22.2		ne.			3		3		ne.	0	0			fair.
S Enoch Train, N. 46° 41′, W. 15° 53′†	30.65	778.5				ene.			4		10		ene.	0	0	sm'h		overcast.
Bk. Essex, S. 17° 19′, E. 41° 48′*†	30.15	765.8	83	28.3		ssw.			3		1		s.	0	0	sm'h	ssw.	clear.
Bk. Franklin, N. 50° 20′, W. 25° 45′*†	30.70	779.8				sw.			3		8			0	0	sm'h		foggy.
Bk Freya, Baltimore, Md.						ne.			3		10		e.	9 h'r	9 h'r			cloudy.
S. Glendon, N 38° 30′, W. 67° 40′†	30.05	763.3	81	27.2		e.			3		8		ese.	8 h'r	8 h'r	mod.	s.	fair.
Bk. Godfrey, N. 48° 32′, W. 8° 56′	30.44	773.2	62.8	17.1	84	nne.			4		6		ne.	0	0	mod	nw.	fair.
S. Grecian, N. 21° 20′, E. 115° 00′*†	29.60	751.8	87	30.6		calm			0		1		ssw.	0	0	r'gh	s.	fair.
Bk. Gronsvaer, N. 33° 15′, W. 47° 20′†	30.10	764.5				s.			3		3		sw.	1½ hr	1½ hr	mod.		fair.
Bk Hattie G. McFarland, Boston, Mass*†	30.12	765.0	71	21.7		n.			1		0			0	0			clear.
Bk. Heinrich & Tonio, N. 41° 10′, W. 42° 10′*†	30.40	772.1	75	23.9		s.			3		1		s.	0	0	light	e.	fair.
Bk. Horace Scudder, Port of Spain, Trinidad, W. I†	30.09	764.3	80	26.7		se.			1		8		se.	0	0			d. clouds.
S. Ivy, S. 32° 35′ W. 123° 24′†	30.22	767.6	59	15.0		wsw.			4		9		wnw.	8 h'r	8 h'r	long	wnw.	rainy.
S. Ismir, S. 7° 48′ E. 106° 07′†	29.92	760.0				ese.			2		9		ese.	5 h'r	5 h'r	mod.	se.	fine.
Schr. James Slater; N. 27° 53′, W. 70° 55′*†	30.38	771.6	84	28.9		nw.			1		2		wnw.	0	0	mod.	ne.	fine.
Schr. Jennie N. Huddell, Philadelphia, Pa†	30.08	764.0	70	21.1	95	ene.			1		8		ene.	0	0			cloudy.
Bk. Johanne, N. 43° 57′, W. 56° 19′*†	30.02	762.5	62	16.7		wnw.			2		0			4 h'r	4 h'r	mod.	w.	foggy.
Bg. John Wesley, St. Jago, Cuba, W. I†	29.93	760.2				n.			1		0			0	0			clear.
Bk. Joseph A. Ropes, S. 34° 32′, W. 19° 23′*†	29.69	754.1	59	15.0	81	nw.			3		8		nw.	3 h'r	3 h'r	mod.	nw.	cloudy.
Bkt. Josephine, Havana, Cuba, W. I.†	30.02	762.5	81	27.2	78	se.			2		0			0	0			hazy.
Bkt. Kryolith, N. 40° 21′, W. 70° 05′*†	30.10	764.5				e.			2		1					long	sse.	clear.
Light House Tender, Laurel, N. 27° 27′, W. 82° 45′†	30.07	763.8	83	28.3		ssw.			3		3		s.	c	0			fair.
Bk. Liberia, N. 27° 55′, W 66° 35′.*.	30.01	762.2	82	27.8	87	nnw.			2		5		nw.	0	0			
Schr. Maggie Abbott, N. 23° 35′, W. 71° 22′†	30.10	764.5				nne.					2		nne.	0	0			clear.
S. Minnie N. Gerow, N. 46° 30′, W. 32° 59′*†	30.04	763.0				sw.			6		10		sw.			r'gh	s	threatening.
S. M. P. Grace, S. 53° 21′, W. 81° 31′*	29.88	758.9	42	5.6		e.			1				ese.	0	0	sm'h	se.	misty.
Bk. National Eagle, N. 39° 12′, W 44° 34′†	30.12	765.0				s.			1		2		ssw.	0	0	mod.	ne.	fair.
S. S. Nebo, N. 40° 40′, E. 4° 03′*†	29.90	759.4				n.			3					0	0	long	wnw.	clear.
S. Oracle, N. 39° 58′, W. 72° 20′*	30.12	765.0	75	23.9	95	e.			1									fine.
S. Orealla, N. 31° 00′, W. 38° 04′*	30.17	766.3				se.			4		3		se.	0	0	mod.	se.	clear.
S.Paramita, N. 30° 39′, W. 135° 25′†	30.19	766.8	76	24.4		ne.			2		2		ne.	1 h'r	1 h'r	short	nnw.	clear.
Bk. Rosebud, S. 36° 00′, E. 23° 07*†	30.15	765.8	66	18.9	78	wsw.			2		0			0	0	sm'h		
S. St. Francis, N. 35° 41′, E. 58° 51′†	30.11	764.8	78	25.6		calm			0		2			0	0	long	e.	fine.
Bk. Sunbeam, N. 39° 25′, W. 44° 30′†	30.26	768.6	74	23.3	85	s.			3		2		sw.	0	0	mod.	ene.	fair.
S. S. Sunbeam, N. 37° 26′ E. 6° 44′	30.11	764.8	76	24.4	85	wnw.			3		0					2	wnw.	blue sky.
S Sovereign of the Sea, S. 35° 20′, W. 51° 54′*†	30.27	768.8	62	16.7	83	nne.			5		9		nnw.	0	0	short	ne.	dull.
Bk. Truro, N. 40° 14′, W. 65° 05′*†	30.09	764.3				ne.			1		1		ne.	0	0	mod.	sw.	clear.
U. S. F. C. S. S. FishHawk, Wood's Holl, Mass†	30.26	768.6	70	21.1	90	calm			0		3		calm	0	0			clear.
Bk. Vincenzo Accame, N. 37° 57′, W. 33° 50′†	30.51	775.0	82.4	28		wsw.			6									
Schr. Viola Reppard, N. 34° 09′, W. 76° 20′†	29.95	760.7	84	28.9		wsw.			4		5		wsw.	6 h'r	6 h'r	cross	cross	
Bg. Wanburn, Palanque, San Domingo, W. I*†	30.10	764.5				ne.			4		2		nne.			mod.	ese.	¼ clouded.
Bk. Warden Law, Sunderland, England*	30.16	766.1				calm			0		2		nw.	2 h'r	2 h'r			fair.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 5, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.05	763.3	80.2	26.8	75	s.			1		1			0	0	very fair	Bouvier.
Algiers			30.07	763.7	78.1	25.6	67	ne.			2		0			0	0	clear	Thève.
La Galle			30.04	763.1	85.3	29.6	64	nnw.			2		1			0	0	very fair	Fonfrède.
Tunis			29.99	761.7															Jacques.
Saida			30.10	764.4															Perès.
Tebessa			30.10	764.4	75.2	24.0	31	sse.			2		0			0	0	clear	Rigaud.
Geriville					90.3	32.4	9	w.			4		1			0	0	very fair	Louchamp.
Laghouat			30.13	765.2	97.9	36.6	31	s.			1		0			0	0	clear	Abraham.
Biskra			30.11	764.7	96.4	35.8	23	nw.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.69	754.1	29.78	756.4	48.0	8.9	90	wnw.	8	3.6		10				0.04	1.0	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.40	746.8	29.94	760.5	64.4	18.0	69	sw.			2		6			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.06	738.0	29.82	757.4	55.0	12.8	71	wsw.	21.0	9.4		10				0.020	0.5		Dr. Wierzbiski.
Eperies	28.89	733.9	29.75	755.6	64.4	18.0	60	s.			3		10 ks			0.157	4.0		Julius Mikolik.
Gratz	28.69	728.8	29.92	759.9	63.7	17.6	91	w.			2		8			0.217	5.5		Andreas Rospini.
Hermannstadt	28.46	722.8	29.85	758.2	64.6	18.1	50	wnw.			5		9			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.65	727.8	29.98	761.4	58.8	14.9	49	wnw.			3		6			0	0		The Staff.
Lemberg	28.80	731.6	29.77	756.1	59.5	15.3	67	e.			2		9			0.043	1.1		Dr. T. Stanecki.
Pola	29.76	755.8	29.86	758.5	80.1	26.7	47	sse.			2		4			0.003	1.0		I. R. Hydrographic Office.
Szathmar	29.34	745.2	29.79	756.6	66.6	19.2	41	sw.			5		3			0	0		Joseph Midliuszay, S. J.
Szegedin	29.67	753.6	29.95	760.7	57.2	14.0	92	sw.			2		8			0.083	2.1		Karl Stancel.
Trieste																			Royal Academy.
Vienna	29.21	742.0	29.92	758.9	60.4	15.8	46	w.			3		8			0.083	2.1		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.04	763.0	30.14	765.5	66.0	18.9	64	wnw.	25	11.2			5			0	0	squally	W. Boswell
Armagh, Observatory	30.11	764.8	30.35	770.9	60.8	16.0	76	nw.	5	2.2			10					gloomy	S. Call.
Bidston, Liverpool Obs'y			30.27	768.8	58.6	14.8	90	nw.	20	8.9			10					overcast	John Hartnup.
Bolton, Sharples	29.69	754.1	30.23	767.8	59.2	15.1	86	nw.	12	5.4			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.81	757.2	30.20	767.1	66.4	19.1	65	nw.			2		4			0	0	d. clouds	J. McLandsborough.
Bridgetown, Barbadoes	30.05	763.3	30.08	764.0	85.0	29.4	70	ne.			1		2					d clouds	Corpl. J. Surgenor, A. H.C.
Cardington			30.20	767.1	69.0	20.6	75	nw.			1.0		10					overcast	John McLaren.
Chatham, School M. E.	30.09	764.3	30.22	767.6	69.1	20.6	66	nw.			1		10					gloomy	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.10	764.5	30.33	770.4	64.0	17.8	71	nnw.			3		9					overcast	The Staff.
Fort Napier, Natal	27.90	708.6	30.12	765.0	73.6	23.1	38	calm			0		0					blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.72	754.9	29.96	761.0	86.0	30.0	64	sw.			2		4					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.98	761.5	30.03	762.7	81.0	27.2	74	w.			5		4					d. clouds	Corpl. F. Norris, A. H.C
Glasgow, Observatory	30.04	763.0	30.24	768.1	63.2	17.3	71	w.			4		5					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.04	763.0	30.21	767.3	69.8	21.0	60	nw.			1		10					overcast	The Staff.
Guernsey	29.98	761.5	30.28	769.1	63.5	17.5	85	nw.			1		6					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.18	766.0	30.22	767.6	69.2	20.7	58	nw.	9	4.0			9					d. clouds	The Staff.
Leicester, Museum	29.94	760.5	30.21	767.3	65.1	18.4	73	nw.			2		10					overcast	J. C. Smith.
Malta, Mediterranean	29.87	758.7	29.94	760.5	78.4	25.8	69	nw.			3		4					d. clouds	H. Keene, A. H. C.
Nassau, Bahamas	30.18	766.0	30.23	767.8	84.0	28.9	67	se.			1		0					blue sky	C. S. Duncombe.
Oscott, St. Mary's College	29.73	755.1	30.20	768.0	60.2	15.7	86	nw.			2		10					overcast	Warren Middleton.
Oxford, Radcliffe Obs'y	30.02	762.5	30.25	768.3	63.1	17.3	78	nw.			2		10					overcast	The Staff.
Plymouth	30.22	767.6	30.30	769.6	60.0	20.6	64	nnw.			2		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			30.12	765.0	56.1	13.4	93						10					drizzling	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.71	754.6	29.77	756.1	84.2	29.0	58	ne.			2		6			blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.92	760.0	30.19	766.8	71.3	21.8	63	wnw.			1		3			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.20	767.1	30.23	767.8	68.9	20.5	67	nnw.			2		2			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.26	768.6	61.0	16.1	80	wnw.	14	6.3			0					threatening	I. New.
Stratfield Turgiss					67.1	19.5	71	nw.			1		6					d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.32	770.1	30.33	770.4	68	20.0	60	nw.			2		3					d. clouds	W. Newcombe.
Valencia, Observatory	30.39	771.9	30.41	772.4	60.5	15.8	86	nnw.	15	6.7			5					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.94	760.5	29.98	761.5	66	18.9	83	sw	11	4.9		0	2 s		w.	0.230	5.8	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.91	759.7	29.97	761.2	62	16.7	93	ne.	2	0.9		2 ck	2 ks	ne.	ne.	0	0	fair	G. A. Blair.
Father Point, Quebec*	29.91	759.7	29.93	760.2	58	14.4	92	sw.	12	5.4		5 k	5 s	w.	nw.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.27	743.4	30.07	763.8	60	15.6	93	s.	3	1.3		0	0			0	0	hazy	James Stewart.
Halifax, N. S*	29.92	760.0	30.04	763.0	71	21.7	71	w.	4	1.8		8 k	0	nw.		0	0	cloudy	A. Allison.
Kingston, Ontario*	29.77	756.1	30.09	764.3	73	22.8	79	w.	1	0.4			10 s		w.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.87	758.7	30.06	763.5	79	26.1	74	w.	6	2.7		2 cs	0			0	0	fair	C. H. McLeod, C. E.
Port Dover, Ontario*	29.42	747.3	30.09	764.3	68	20.0	93	ne.	7	3.1		5 k	5 ks	w.	w.	0.03	0.8	cloudy	Rev. R. Mosley.
Port Stanley, Ontario	29.39	746.5	30.06	763.5	70	21.1	95	e.	3	1.3			10 ks			0.05	1.3	threatening	H. Morgan.
Quebec, Quebec*	29.42	747.3	30.04	763.0	70	21.1	87	e.	11	4.9			10 n		e.	0.12	3.0	cloudy	M. Payne.
Rockliffe, Ontario*	29.75	755.6	30.06	763.5	69	20.6	90	w.			1	0	hz.			0	0	clear	Capt. Ashe, R. N.
Saugeen, Ontario*	29.65	753.1	30.10	764.5	65	18.3	90	calm	0	0		5 ck	0	w.		0	0	fair	W. H. McIntyre.
St. Andrews, N. B	29.38	746.2	30.07	763.8	67	19.4	93	e.	7	3.1			10 ks			0.30	7.6	cloudy	
Sydney, C. B*	29.98	761.5	30.03	762.7	64	17.8	82	w.	1	0.4		0	0			0	0	clear	
Toronto, Ontario*	29.96	761.0	30.01	762.2	70	21.1	73	sw.	4	1.8		0	0			0	0	clear	T. C. Hill, C. E
Yarmouth, N. S*	29.73	755.1	30.10	764.5	71	21.7	87	e.	7	3.1			10 ks		sw.	0.04	1.0	cloudy	Magnetic Observatory.
Sub-series.	30.03	762.7	30.10	764.5	60	15.6	93	sw.	4	1.8		0	0			0.01	0.3	clear	Lt. F. E. Wilmot, R. N.
Mount Forest	28.70	729.0	30.11	764.8	66.0	18.9	94	ese.			3		10 k			0.002	1.0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.98?	761.5?	30.23?	767.8?	63	17.2	94	sw.	3	1.3		5 k	5 s			0.22	5.6		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.29	769.4	30.31	769.9	65	18.3	78	e.	9.6	4.3		0	0			0	0	clear	C. Hansen.
Cape Town, C. G. H. Obs'y	30.23	767.8	30.26	768.6	63.5	17.5	78	nw.	6	2.7		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.55	750.5	29.57	751.1	73.0	22.8	76	nw.	7.2	3.2			7			0.012	0.3	very cloudy	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.57	751.1	29.62	752.3	61.5	16.4	66	nnw.	18	8			7						Oversergent Fischer.
Fanöe	29.81	757.2	29.83	757.7	61.0	16.1	77	nw.			6		5						Overloerer Lauridsen.
Godthaab, Greenland	30.00	762.0	30.04	763.1	43.2	6.2	97	s.			2		10			0.028	0.7	raining	S. Kleinschmidt.
Ivigtut	30.01	762.3	30.03	762.8	44.6	7.0		calm			0		10						
Stykkisholm, Iceland	29.77	756.1	29.81	757.2	47.5	8.6	93	se.			6		10					raining	A. O. Thorlacius.
Thorshavn	30.01	762.3	30.05	763.2	56.8	13.8	82	w.	9	4			5						Overloerer Bergh.
Vestervig	29.72	754.9	29.81	757.2	61.5	16.4	75	nnw.			4		2						Loearer Oesterbol.
French.																			
Agen, Normal School	29.52	749.9	30.15	765.9	77.7	25.4	30	nnw.			1	0	0			0	0	clear	M. Labroue, Directo.
Alençon, Normal School	29.74	755.3	30.29	769.3	67.6	19.8	61	n.			1		kn	n.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.93	760.1	30.18	766.5	64.0	17.8	80	nw.			2		10 kn			0	0	stormy	M. Fénéon, Command't.
Avignon, Normal School	29.85	758.3	29.93	760.3	77.4	25.2	61	n.			6		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.66	753.4	30.21	767.3	66.0	18.9	53	ne.			1		10		n.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.96	760.9	30.21	767.4	70.0	21.1	51	nw.			1		10		nne.	0	0	covered	M. Frère Eugène Marié.
Besançon, Normal School	29.24	742.7	30.12	765.1	63.7	17.6	98	ne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.91	759.7	30.16	766.1	73.4	23.0	42	nne.			2		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.67	753.5	30.21	767.4	69.8	21	49	ne.							ne.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.07	763.8	30.32	770.0	71.2	21.8	61	ne.			1		2		ne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.20	767.1	30.28	769.1	53.2	11.8	85	nw.			1		5		nw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.84	757.8	30.15	765.7	66.0	18.9	75	nw.			1		10	wnw.	wnw.	0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.65	753.2	30.17	766.2	61.2	16.2	71	n.			1		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.84	732.5	30.17	766.2	67.3	19.6	42	n.			2	0	1 k		ne.	0	0	clear	M. Alluard, Director.
Cluny, Normal School	29.34	745.3	30.30	769.7	66.6	19.2	47	ne.			3		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.15	715.0	30.18	766.5	64.4	18	86	w.			3		kn	w.	w.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.42	696.5	29.83	757.6	78.1	25.6	25	n.			3					0	0		M. Jeanglrard, Director.
Grénsque, du Rhone	28.78	731.1	29.84	757.9	82.0	27.8	25	nw.			2		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.21	741.9	29.95	760.8	72.0	22.2	50	ne.			3		ckn	n.	ne.	0	0		M. Ablard, Director.
Lamballe, Normal School					67.6	19.8	79	nw.			1	0	5 k		nw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.54	750.2	30.10	764.4	68.4	20.2	76	n.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.21	767.3	30.31	769.9	75.2	24.0	61	ne.			1		8	ne.	nw.	0	0	¾ covered	Lt. T. Cafré, Director.
Lyon, St. Genis-Laval	29.10	739.2	30.15	765.7	65.8	18.8	42	n.			2		0			0	0	clear	M. André, Director.
Mans, Normal School	29.95	760.6	30.25	768.3	69.4	20.8	68	ne.			1		8		n.	0	0	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.61	752.0	29.87	758.6	79.7	26.5	36	nw.			3		0			0	0		M. Stephan, Director.
Montlouis	25.01	635.2	29.85	758.2	69.8	21.0	36	nw.	3.8	1.7						0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.82	757.5	29.94	760.5	86.0	30	33	ene.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.40	746.8	30.17	766.4	63.0	17.2	68	nw.			2		10 n		nw.	0	0	covered	M. Hasse, Director
Nantes, Observatory	30.12	765.1	30.28	769.2	70.9	21.6	55	nne.			1–2		9 k; kn		nne.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.88	759.0	29.98	761.6	85.8	29.9	19	nw.	24.2	10.8			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.47	545.4			55.4	13.0		se.			1		0			0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.05	737.8	30.08	764.0	73.8	23.2	24	n.			4		0			0	0	clear	M. Talliou.
Puy de Dôme Obs'y, Summit	25.33	643.3			45.0	7.2	91	ne.			3		2			0.008	0.2	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.19	766.9	30.22	767.7	76.6	24.5	100	nne.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.99	761.7	30.20	767.0	76.6	24.8	72	w.			1		5	s.		0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.02	711.7	30.08	764.0	71.6	22.0	37	nw.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.23	767.8	30.28	769.0	67.6	19.8	65	nw.			1		10	ne.		0	0	covered	M. Brotier.
Saint Maur, Observatory	30.00	763.5	30.22	767.7	67.1	19.5	54	nnw.			1		10		n.	0	0		M. Renou, Director.
Toulouse, Observatory	29.46	748.2	30.19	766.7	79.7	26.5	30	nnw.			3		0			0	0	clear	M. Baillaud, Director.
Tours	30.05	763.2	30.22	767.7	72.3	22.4	50	n.			3		5	e.	ne.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.74	755.3	30.23	767.8	66.2	19.0	57	n.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.94	760.5	30.23	767.9	67.6	19.8	53	nw.			1		10		nne.	0	0		M. Marié Davy, Director
German.																			
Ansbach	28.61	726.6	30.04	763.0	59.0	15.0	51	w.			8		7	w.		0.016	0.4		Prof. Jnedt.
Bamberg	29.19	741.5	30.05	763.2	57.7	14.3	60	w.			2	0	8 ks		w.	0	0		Prof. Dr. Hoh.
Berlin	29.46	748.3	29.63	752.7	65.1	18.4	41	n.			7		8			0.146	3.7		Prof. Dr. Arndt.
Breslau	29.21	741.8	29.73	755.1	55.0	12.8	74	w.			5		8			0.354	9.0		Royal University Obs'y.
Carlsruhe	29.68	753.8	30.11	764.8	63.0	17.2	55	sw.			5		9	nw.		0.024	0.6		Albert Senz.
Cassel	29.27	743.5	29.98	761.6	56.5	13.6	64	w.			6		8	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.69	754.0	30.04	763.0	66.0	18.9	48	wnw.			3		5			0	0		Physical Society.
Friedrichshafen	28.69	728.6	30.10	764.5	63.0	17.2	57	w.			3		5	w.		0	c		Wilhelm, Chief Tel.
Hamburg	29.72	754.8	29.81	757.2	62.2	16.8	67	nw.			6		6			0.287	7.3		E. Preller.
Kiel	29.75	755.7	29.77	756.1	64.2	17.9	48	nw.			7		3			0.102	2.6		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.43	747.6	29.85	758.3	56.1	13.4	69	w.			6		10	w.		0.024	0.6	stormy	H. Leppig, Asst.
Magdeburg	29.61	752.1	29.80	756.8	55.4	13.0	94	w.			7	0	9 ks		w.	0.130	3.3		Dr. Assmann.
Memel	29.58	751.3	29.63	752.5	58.8	14.9	64	s.			3		10 ks						Issermann.
Munich	28.27	718.0	30.14	765.5	58.8	14.9	45	nw.			4		5	sw.		0.110	2.8		Dr. C. Lang.
Neufahrwasser	29.43	747.6	29.45	748.0	57.2	14.0	99	ese.			1		9			0.091	2.3	light rain	A. Lothes.
Neustadt, Palatinate	29.52	749.8	30.05	763.2	64.4	18.0	66	nw.			1		5	nw.		0	0		Dicknether.
Stuttgart	29.16	740.7	30.04	763.0	63.1	17.3	48	w.			4		5	n.		0.008	0.2		Prof. Dr. Schoder.
Wustrow	29.65	753.1	29.68	753.8	61.2	16.2	72	n.			6		10 k		s.	0.039	1.0		Profs. Brandes & Reimer
Greek.																			
Athens	29.47	748.5	29.84	757.8	86.2	30.1		sw.			2.0		0			0	0	clear	Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.44	747.8	29.49	749.1	83.8	28.8	79	wsw.	28.0	12.5			8		w.	0	0	gloomy	
Deesa	28.98	736.2	29.45	748.0	83.1	28.4	78	sw.	14.0	6.3			9	s.	wsw.	0.13	3.3	showery	
Bombay	29.04	752.8	29.68	753.8	77.9	25.5	91	wsw.	21.0	9.4			6	w.	wnw.	0.29	7.4	d. clouds	
Poona, Yarrowda	27.82	706.6	29.67	753.6	75.9	24.4	70	wsw.	36.0	16.1			9	w.	w.	0.02	0.5	drizzling	
Trichinopoly	29.46	748.2	29.73	755.2	90.7	32.6	42	nw.	5.0	2.2			10			0	0	overcast	
Bellary	28.22	716.8	29.67	753.5	85.2	29.6	47	w.	14.7	6.6			9			0	0	gloomy	
Belgaum	27.22	691.4	29.79	756.6	69.0	20.6	94	wsw.	6.0	2.7			10		sw.	0.22	5.6	showery	
Lahore	28.48	723.4	29.20	741.7	93.4	34.1	02	sw.	6.0	2.7			2			0	0	blue sky	
Roorkee	28.34	719.9	29.21	742.0	87.6	30.9	69	w.	2.3	1.0			10			0.23	5.8		
Agra	28.80	731.4	29.35	745.5	84.2	29.0	72	sw.	10.0	4.5			10		sw.	0.10	4.1	overcast	
Nagpur	28.51	724.2	29.54	750.3	81.7	27.6	74	w.	4.0	1.8			9		wnw.	0	0	d. clouds	
Jubbulpore	28.17	715.5	29.51	749.6	79.0	26.1	83	w.	7.5	3.4			10		w.	0.20	5.1	overcast	
Lucknow	29.00	736.6	29.37	745.9	81.7	27.6	91	calm	5.7	2.6			10	ene.		0.82	20.8	overcast	
Allahabad	29.08	738.7	29.39	746.5	83.6	28.7	83	ssw.	4.0	1.8			10			0.38	9.6	overcast	
Patna	29.20	741.7	29.38	746.3	84.8	29.3	80	sw.	2.5	1.1			10	sw.	sw.			drizzling	
Hazaribagh	27.41	696.3	29.39	746.5	79.3	26.3	84	wnw.	8.3	3.7			10		w.	0.68	2.0	drizzling	
Cuttack	29.36	745.7	29.44	747.7	83.7	28.7	79	sw.	4.0	1.8			7			0	0	overcast	
Calcutta, Alipore	29.34	745.3	29.36	745.9	82.0	27.8	90	ssw.	4.0	1.8			9		sw.	0.12	3.0	d. clouds	
Dhubri	29.25	742.9	29.36	745.9	85.0	29.4	80	se.	2.8	1.2			9	ne.		0.21	5.3	d. clouds	
Chittagong	29.33	744.9	29.42	747.1	80.2	26.8	92	se.	9.8	4.4			10			0.09	2.3	overcast	
Sibsagar	29.10	739.1	29.43	747.4	83.7	28.7	84	ne.	4.0	1.8			10	w.	w.	1.05	26.7	d. clouds	
Jeypore	27.98	710.7	29.39	746.6	83.2	28.4	63	w.	11.5	5.1			10		w.	0.01	0.3	overcast	
Zanzibar, Africa	30.06	763.5			83.7	28.7	48	s.	8.6	3.8			5		ssw.	0	0	d. clouds	
Italian.																			
Udine	29.48	748.9	29.88	758.9	77.4	25.2	43	e.	1.3	0.6			8			0.004	0.1		Prof. Giovanni Clodig.
Milan	29.37	746.0	29.86	758.5	81.5	27.5	37	w.	4.9	2.2			5			0	0		Prof. Schiaparelli.
Padua	29.83	757.6	29.93	760.3	79.0	26.1	45	ese.	7.4	3.3			0	nnw.		0.020	0.5		Prof. Dott. Lorenzoni.
Moncalieri	28.98	736.2	29.85	758.2	81.9	27.7	26	e.	4.3	1.9			1	s.		0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
ITALIAN.—Continued.																			
Genoa	29.67	753.7	29.86	758.4	79.2	26.2	67	sw.	3.8	1.7			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.00	711.2	29.83	757.6	78.8	26.0	25	w.			4		1	nw.		0	0		Prof. D. C. Bruno.
Pesaro	29.80	756.8	29.84	758.0	78.1	25.6	56	ese.	13.0	5.8			8	w.		0	0		Prof. Luigi Guidi.
Florence	29.58	751.3	29.82	757.5	84.7	29.3	33	nw.			2		3			0	0		Prof. Costantino Pitter
Leghorn	29.71	754.7	29.80	756.8	76.6	24.8	80	wsw.	4.9	2.2			1			0	0		Prof. P. Monte.
Rome	29.70	754.4	29.87	758.6	85.8	29.9	39	sw.	8.7	3.9			0			0	0		Prof. P. Tachini.
Lecce	29.62	752.3	29.86	758.4	82.4	28.0	37	wnw.	11.9	5.3			5			0	0		Prof. C. de Giorgi
Cosenza	29.02	737.2	29.87	758.8	85.6	29.8	73	sw.	3.1	1.4			0			0	0		Prof. D. Conti.
Cagliari	29.67	753.6	29.85	758.3	86.2	30.1	24	nw.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.67	753.7	29.91	759.8	81.0	27.2	60	e.	5.0	2.5			3	w.		0	0		Prof. G. Ciacciatore.
Syracuse	29.84	757.8	29.88	758.9	81.7	27.6	62	nne.	3.1	1.4			3	wnw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.39	746.5	29.89	759.2	80.4	26.9	65	sw.	2.5	1.1			3	w.		0	0		Prof. T. Brioschi.
Stelvio	22.24	564.8			44.4	6.9	37	w.			4		2			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.31	566.7			56.5	13.6	51	ne.			2		2			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.87	758.7	29.90	759.4	81.2	27.3	56	se.	3.8	1.7		0	0			0	0	clear	K. Ogawa.
Hakodate	29.94	760.5	29.95	760.7	72.0	22.2	94	ese.	30.0	13.4			3			0	0	clear	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.35	745.5	29.51	749.5	78.2	25.7	79	se.	17.0	7.6			10 n			1.606	40.8	light rain	M. Fojima.
Nagasaki, I. M. Obs'y	29.13	739.9	29.32	744.7	79.6	26.4	84	calm	0	0		0	0 s			0	0	cloudy	
Nemuro	30.17	766.3	30.23	767.8	66.8	19.3	100	s.	6.0	2.7		10	0			0	0	foggy	
Niigatta	29.67	753.6	29.71	754.4	81.8	27.7	56	se.	20.9	9.4		0	1 ck			0	0	fair	M. Morita.
Nobiru	29.95	760.7	29.96	761.0	75.5	24.2	95	se.	21.8	9.7		0	0			0.105	2.7		H. Midzushina.
Osaka	29.43	747.5	29.44	747.8	78.5	25.8	79	nne.	8.9	3.9			10 n			0.215	5.5	raining	
Sapporo					74.0	23.3	84	s.	46.2	20.6			3			0.020	0.5	clear	
Tokei Obs'y, Yeddo	29.87	758.8	29.95	760.7	77.5	25.3	73	sse.	20.6	9.2			10 ks		se.	0.095	2.4	cloudy	The Staff.
Wakayama	29.40	746.7	29.45	748.0	79.0	26.1	85	ssw.	25.0	11.2			10			0.184	4.7	raining.	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	30.00	762.0	30.19	766.8	73.6	23.1	60	e.	8.5	3.8		0	3 k		e.	0.01	0.3	fair	Oliver & Figg.
MEXICAN.																			
Guanajuato	23.70	602.0	29.92	760.0	60.1	15.6	90	e.	0	0			10 kmp		e.	0.000	2.5	very cloudy	Prof. Vicente Fernandez.
Leon	24.36	618.7	29.99	761.7	61.5	16.4	92	nnw.			1	8 c	2 k	w.		0.006	0.2	covered	Prof. M. Leal.
Mazatlan	29.65	753.1	29.91	759.6	77.0	25.0	88	nne.	0.9	0.4		8 cn	1 k	se.		0.807	20.5	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.117	587.4?	30.15	765.8	53.8	12.1	86	calm			0	3 c	7 km			1.461	37.1	covered	The Staff.
Morelia	24.26	616.1	30.34	770.5	60.6	15.9	57	s.			2	1	1	s.	se.	0.170	4.3	½ cloudy	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.98	609.0	29.89	759.3	63.1	17.3	89	calm			0	1 c	7 ks	ese.	ese.	0.670?	4.4?	cloudy	M. V. de Leon, M. E
Puebla, Catholic Institute	23.43	595.1	30.18	766.5	54.5	12.5	89	ne.	1.8	0.8		0	0		s.	1.400	35.6	½ cloudy	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	22.51	571.7	30.05	763.2	59.8	15.8	68	n.	7.5	3.3		0	0			0	0	fine	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.18	766.6	30.18	766.6	60.8	16.0		nw.			3					0	0		
Gronhugen	29.96	761.0	30.02	762.4	57.0	13.9		n.			4					0	0		
Helder	30.08	764.0	30.08	764.0	58.3	14.6		nw.			4					0.039	1.0		
Hellevoetsluis	30.14	765.5	30.14	765.5	61.9	16.6	76	nw.			3					0.031	0.8		
Utrecht	30.06	763.5	30.11	764.7	65.7	18.7	54	wnw.			4		5			0.004	0.1	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.81	757.2	29.87	758.8	58.0	14.8	70	nnw.	18	8			8			0	0		
Brono	29.76	750.0	29.80	757.0	61.9	16.6	71	calm	0	0			10			0	0		
Christiania	29.54	750.4	29.69	754.0	69.0	20.9	57	wsw.	4	2			7			0.087	2.2		
Gjæsvær	29.76	755.9	29.78	756.5	75.9	24.4		sse.			2		10						
Lodingen	29.73	755.2	29.78	759.4	63.5	17.5	84	calm			0		10			0.020	0.5		
PORTUGUESE.																			
Angra, Azores					73.8	23.2	83	se.	11.2	5.0			2			0	0		Dr. J. A. Sampaio
Campo Major	28.99	736.4	29.92	759.9	95.7	35.4	23	s.	0.7	0.3			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.05	763.3	30.14	765.5	73.8	23.2	62	sw.	8.7	3.9			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.68	753.8	30.04	762.9	66.6	19.2	79	sw.	10.5	4.7			0			0.010	0.4		The Staff.
Ponta Delgada, Azores	30.30	769.5	30.37	771.3	75.0	24.2	56	ne.	7.4	3.3			5			0	0		
Saint Paul de Loando	29.88	758.9	30.08	764.1	66.9	19.4	94	n.			1		10			0.024	0.6		
Serra da Estrella	25.45	646.3	29.94	760.5	74.7	23.7	29	ese.	9.4	4.2			0			0	0		
RUSSIAN.																			
Akmolinski	28.66	728.0	29.67	753.6	79.9	26.6	31	nnw.	7	3		1 c	0			0	0	light clouds	Major K. Lasarew.
Archangel	29.80	756.8	29.82	757.3	77.9	25.5	40	se.	4	2		0	6 ks			0	0		Capt. Sselliwerstow.
Astrakhan	29.80	757.0	29.72	754.9	88.2	31.2	50	sse.	9	4		0	3 s			0	0	light clouds	Capt. Wisganow.
Barnaul	29.11	739.5	29.58	751.2	81.5	27.5	54	nne.	4	2			7			0	0	light clouds	Meteorological Obs'y.
Dorpat	29.41	747.0	29.65	753.0	63.3	17.4	69	sse.	7	3			9 k			0.063	1.6		Observatory.
Ekaterinburg	28.80	731.4	29.73	755.1	63.3	17.4	59	w.	9	4			10			0.008	0.2		Metecrological Obs'y.
Irkutsk																			
Kasan	29.52	749.8	29.78	756.3	71.4	21.9	64	e.	4	2			8			0	0		Observatory.
Kertch	29.60	751.8	29.62	752.3	74.3	23.5	89	calm	0	0		0	7 ks			2.421	61.5		Lagorio & Sastyrez.
Kieff	29.08	738.6	29.69	754.0	69.3	20.7	49	nw.	7	3		ck;cs	8 k						Observatory.
Lugan	29.41	749.9	29.00	751.9	72.3	22.4	80	ssw.	13	6			0			0.331	8.4		Meteorological Obs'y.
Moscow	29.12	739.7	29.56	750.9	75.7	24.3	46	sse.	7.8	3.5		0	5 ks						Meteorological Obs'y.
Nikolaiev	29.65	753.0	29.72	754.8	79.0	26.1	62	calm	0	0		cs	4 n			0.213	5.4		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China																			Physical Observatory.
St. Petersburg	29.50	749.2	29.64	752.8	76.6	24.8	62	calm	0	0		3 cs	0			0	0		Central Physical Obs'y.
Semipalatinsk	29.58	751.3	29.60	751.7	72.0	22.2	63	sse.	9	4			9 km			0.004	0.1		
Tashkend, Laboratory	28.99	736.4	29.60	751.8	85.3	29.6	43	nw.	11	5			4			0	0	light clouds	Major Lasarew
Tiflis	28.08	713.2	29.53	750.0	88.0	31.1	52	calm	0	0			0			0	0		Teich, A. M.
Vladivostock	28.32	719.4	29.63	752.0	93.0	33.9	35	calm	0	0			10 ks			0	0		Physical Observatory.
Warsaw	29.59	751.5	29.65	753.2	74.5	23.6	92	calm	0	0			10 n						
Wilna	29.22	742.3	29.04	752.9	54.1	12.3	82	sw.	16	7			10ksn					light rain	Astronomical Obs'y.
Yeniseisk	29.26	743.3	29.67	753.6	65.1	18.4	56	s.	9	4			6			0	0		Berg, Assistant.
	29.73	755.1	30.00	762.1	74.3	23.5	52	ne.	7	3			1			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt.			30.21	767.3	58	14.4	93	wnw.			4	10	5	nw.		0	0	hazy	J. Youngclause.
North Unst			30.03	762.7				se.			3	3	7	nw.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.87	758.7	29.97	761.2	83.1	28.4	49	sw.	3.4	1.5		0	0			0	0	misty	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.13	765.4	30.19	766.9	70.5	24.7	50	n.	2.2	1.0		1	1	w.		inap.	inap.	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.20	690.8	30.07	763.7	72.1	22.3	48	ne.	12.8	5.7		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.82	706.5	29.89	759.3	91.4	33.0	36	s.	4.2	1.9		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.87	758.0	30.02	762.4	88.2	31.2	60	sse.	5.1	2.3		0	0			0	0	clear	Olayo Diaz, Director
Oviedo	29.39	746.5	30.24	768.0	68.9	20.5	66	nw.	5.2	2.3		0	6 k			0	0	fair	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.15	740.5	30.00	762.1	82.8	28.2	48	ne.	13.6	6.1		0	0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.06	763.6	30.13	765.3	82.0	27.8	77	se.	4.9	2.1		7 c;ck	1 s	sse.		0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.76	755.9	29.82	757.4	82.4	28.0	79	sw.	26.4	11.8		2 c	5 ks	ne.	ne.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.96	760.9	30.06	763.4	75.0	23.9	70	w.	10.1	4.5		4	4	w.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.6	30.11	764.9	81.0	27.2	92					0	1 k		e.	0.008	0.2	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.59	751.6	29.72	754.9	81.5	27.5	82	nnw.	4.9	2.2		2 cs	6 ks		wsw.	0	0		José L. Yrastorza.
SWEDISH.																			
Haparanda	29.77	756.1	29.81	757.1	70.2	21.2	87	e.			2		10			0	0		
Umea	29.60	751.9	29.65	753.2	73.4	23.0	53	ene.			4		5			0.008	0.2		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Hernosand	29.57	751.0	29.62	752.3	60.4	15.8	91	nw.			4		10			0.091	2.3		
Stockholm	29.48	748.8	29.66	753.3	64.4	18.0	59	calm			0		10			0.004	0.1		
Wisby	29.50	749.2	29.56	750.7	61.9	16.6	64	e.			4		5			0.441	11.2		
Sub-series.																			
Upsala	29.55	750.5	29.63	752.7	65.7	18.7	57	n.	6.9	3.1			10	ese.	n.	0.055	1.4		S. G. Fineman.
SWISS.																			
Geneva	28.68	728.4	30.06	763.6	68.5	20.3	48	n.			6		0			0	0	clear	The Observatory
TURKISH.																			
Constantinople			29.84	757.8	75.7	24.3	71	n.	8	3.5			8		nw.	0.331	8.4		The Observatory.
Valona			29.99	761.8	84.6	29.2		sw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.82	757.4	87.4	30.8	52	w.			1	0	3 s		sw.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.06	763.5	30.14	765.5	73	22.8	66	s.	3	1.3			10 s		s.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.45	748.0	30.09	764.3	64	17.8	100	e.	14	6.3			10 n			0.29	7.4	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.05	636.8	29.79	756.7	54	12.2	77	e.	3	1.3			10 s		e.	0.44	11.2	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.12	688.8	29.87	758.7	68	20.0	70	se.	4	1.8		8 c	0	s.		0.01	0.3	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.95	735.3	30.10	764.5	73.0	22.8	94	sw.	7	3.1			10 s			0.99	25.1	cloudy	H. Hall.
Atlantic City, New Jersey	30.05	763.5	30.07	763.8	74.4	23.6	98	ne.	10	4.5			10 s		ne.	0.05	1.3	cloudy	Jas. M. Watson.
Augusta, Georgia	29.95	760.7	30.14	765.5	75	23.9	85	sw.	1	0.4		9 k	0	w.		0.99	25.1	cloudy	John Healy.
Baltimore, Maryland	30.07	763.8	30.12	765.0	73	22.8	90	e.	6	2.7			10 s; fg		e.	0.01	0.3	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.06	763.5	30.08	764.0	75.0	23.9	97	e.	15	6.7			10 s			0	0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.50	723.9	30.04	763.0	57	13.9	86	calm	0	0		0	0			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.14	689.3	29.93	760.2	68	20.0	66	sw.	4	1.8		0	5 s			0.07	1.8	fair	S. Wheaton.
Behring Island, Behring Sea	29.89	759.2	29.91	759.7	53.7	12.1		sw.	1	0.4		5 cs	0			0	0	fair	Dr. L. Steineger.
Bismarck, Dakota	28.29	718.6	30.04	763.0	65	18.3	73	e.	10	4.5		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.11	764.8	30.14	765.5	71	21.7	90	ne.	2	0.9		5 ck	2 ks	nw.	n.	0	0	fair	J. T. Elker.
Boise City, Idaho	27.12	688.8	29.88	758.9	58	14.4	65	nw.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.97	761.2	30.12	765.0	70.0	21.1	73	sw.	4	1.8		4 c	hz.	w.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.91	759.7	29.95	760.7	80.7	27.1	88	se.	1	0.4		3 c	2 ks	s.	s.	0	0	fair	M. McCarty.
Buffalo, New York	29.36	745.7	30.09	764.3	74	23.3	66	ne.	4	1.8		5 ck	4 ks	w.	ne.	inap.	inap.	cloudy	Clarence Weaver.
Buford, Fort, Dakota	28.08	713.2	30.02	762.5	64	17.8	73	e.	8	3.6		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.80	756.9	30.09	764.3	74.3	23.5	63	s.	7	3.1		5 cs	2 s	w.	sw.	0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.60	751.8	29.99	761.7	73.8	23.2	83	sw.	1	0.4		5 ck	0	sw.		0.17	4.3	fair	W. H. Ray.
Campo, California	27.32	693.9	29.82	757.4	49.6	9.8	54	e.	3	1.3		8 c	0			0	0	cloudy	W. H. Clendenon
Cape Henry, Virginia	30.04	763.0	30.06	763.5	75	23.9	90	n.	6	2.7		3 c	1 k	sw.	nw.	0	0	fair	A. K. Alderson
Cape May, New Jersey	30.03	762.7	30.06	763.5	75.2	24.0	97	e.	9	4.0			10 s		e.	0.06	1.5	cloudy	W. E. Smith.
Cape Mendocino	29.43	747.5						n.	24	10.7			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	30.14	765.5	30.16	766.1	79	26.1	91	s.	2	0.9		0	3 k		s.	0.31	7.9	clear	F. W. Mixer.
Champaign, Illinois	29.15	740.4	29.94	760.5	68.5	20.3	85	ne.	4	1.8		2 ck	fg.	se.		0.01	0.3	light fog	L. A. Welsh.
Charleston, S. Carolina	30.06	763.5	30.11	764.8	79	26.1	82	w.	8	3.6		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.22	742.2	30.06	763.5	78.0	25.6	76	w.	3	1.3		6 cs	0	w.		0.09	2.3	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.26	743.2	30.08	764.0	79.5	21.4	95	se.	2	0.9		0	4k; fg.		s.	0.14	3.6	fair	B. L. Goulding.
Cheyenne, Wyoming	24.17	613.9	29.87	758.7	47.4	8.6	79	calm	0	0		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.26	743.2	29.95	760.7	71.0	21.7	94	e.	2	0.9			10 s			0.93	23.6	cloudy	J. Mitchell.
Chincoteague, Virginia	30.03	762.7	30.05	763.3	73	22.8	100	e.	6	2.7			10 n			0.08	2.0	light rain	C. F. Dickens.
Cincinnati, Ohio	29.38	746.2	30.02	762.5	74	23.3	84	se.	2	0.9		6cs; ck	0	s.		0.03	0.8	fair	J. F. Harrold.
Cleveland, Ohio	29.32	744.7	30.04	763.0	70.8	21.6	84	se.	9	4.0		7 c; ck	0	w; sw		inap.	inap.	fair	J. B. Newlin.
Coleman City, Texas	28.24	717.3	29.98	761.5	68	20.0	84	calm	0	0		3 cs	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.19	741.4	30.02	762.5	72	22.3	84	se.	3	1.3		8 ck	0	sw.		0.09	2.3	cloudy	D. Cuthbertson.
Concho, Texas	28.11	714.0	29.97	761.2	75	23.9	76	calm	0	0		0	0			0	0	clear	W. W. McConihe.
Custer, Fort, Montana	26.74	679.2	29.80	756.9	67	19.4	47	se.	2	0.9		0	0			0	0	clear	W. B. Lamar.
Davenport, Iowa	29.33	745.0	29.96	761.0	69	20.6	93	ne.	4	1.8			10 s		ne.	0.01	0.3	cloudy	R. R. Martin.
Davis, Fort, Texas	25.21	640.3	29.86	758.4	65	18.3	75	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.32	719.3	30.03	762.7	53	11.7	69	sw.	1	0.4		3 k	0	sw.		0	0	clear	H. Clifford.
Deadwood, Dakota	25.45	646.4	29.88	758.9	61	16.1	70	sw.	8	3.6		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					77	25.0	69	sw.	6	2.7		0	3 s			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.04	763.0	30.06	763.5	72	22.2	100	ne.	10	4.5		5 k	4ks; fg	e.	e.	0.02	0.5	cloudy	T. S. Townsend.
Denison, Texas	29.19	741.4	29.97	761.2	70.0	21.1	84	n.	2	0.9		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.84	630.9	29.86	758.4	61.7	16.5	76	n.	4	1.8		1 c	0	nw.		0	0	clear	F. M. Neal.
Des Moines, Iowa	29.10	739.1	29.98	761.5	68	20.0	93	ne.	2	0.9			10 n		ne.	0.40	10.2	light rain	F. W. Conrad.
Detroit, Michigan	29.33	745.0	30.02	762.5	71.3	21.8	90	e.	5	2.2		2 c; ck	5 s	w.	e.	0.01	0.3	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.49	698.2	29.97	761.2	60	15.6	84	nw.	4	1.8		0	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.28	743.7	29.97	761.2	68	20.0	93	ne.	1	0.4			10 s			0.27	6.9	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.36	745.7	30.08	764.0	70	21.1	62	n.	1	0.4		0	hz.			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.19	741.4	29.98	761.5	77.0	25.0	74	se.	2	0.9		1 ck	2 s			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.23	640.8	29.78	756.4	58	14.4	62	s.	6	2.7		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.97	761.2	30.04	763.0	65.0	18.3	73	sw.	3	1.3		0	hz			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.26	692.4	29.90	759.4	59	15.0	67	se.	3	1.3		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.27	667.2	29.87	758.7	68	20.0	81	e.	2	0.9		4 ck	0			0.07	1.8	fair	J. F. Marshall.
Erie, Pennsylvania	29.34	745.2	30.05	763.3	74	23.3	76	se.	10	4.5		8 k	0			0.01	0.3	cloudy	Peter Wood.
Escanaba, Michigan	29.42	747.3	30.06	763.5	65.5	18.6	91	n.	4	1.8			10 s		n.	0	0	cloudy	George Heathcote.
Fredericksburg, Texas	28.29	718.6	30.00	762.0	73	22.8	82	calm	0	0		3 cs	0			0	0	fair	Frank Halwegler.
Galveston, Texas	29.92	760.0	29.97	761.2	80	26.7	91	w.	11	4.9			10 ks		sw.	1.22	31.0	threatening	E. O'C. Macnerney.
Grand Haven, Michigan	29.34	745.2	29.99	761.7	69.0	20.6	93	ne.	5	2.2			10 s			0.05	1.3	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.24	641.1	29.81	757.2	68.4	20.2	68	ne.	4	1.8		0	5 s			0.28	7.1	fair	Robert O. Lord.
Hatteras, North Carolina	30.03	762.7	30.05	763.3	79	26.1	82	ne.	8	3.6		4 k	hz.	ne.		0.26	6.6	fair	R. M. Crawford.
Helena, Montana	25.77	654.5	29.86	758.4	72	22.2	48	s.	2	0.9		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.04	737.6	30.04	763.0	78.0	25.6	64	calm	0	0		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.69	728.7	30.03	762.7	61.1	16.2	84	n.	4	1.8		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.22	742.2	29.99	761.7	74	23.3	82	se.	1	0.4		4 ck	hz.	sw.		0.14	3.6	fair	O. Schutze
Indianola, Texas	29.95	760.7	29.98	761.5	81.2	27.3	88	sw.	10	4.5		1 cs	2 ks	sw.	s.	inap.	inap.	clear	I. A. Reed.
Jacksboro, Texas	28.83	732.3	29.95	760.7	72	22.2	84	calm	0	0		3 c	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.13	765.3	30.17	766.3	80	26.7	79	sw.	1	0.4		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.40	695.9	29.83	757.7	69	20.6	53	se.	24	10.7		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.28	743.7	29.91	759.7	67.5	19.7	93	ne.	2	0.9			fg.			0.39	9.9	dense fog	F. Z. Gosewisch.
Key West, Florida	30.09	764.3	30.11	764.8	85.0	29.4	72	se.	9	4.0		0	5 k		se.	0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.05	763.3	30.07	763.8	75	23.9	85	n.	8	3.6		3 c; ck	2 k	w.	nw.	0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.07	738.4	30.08	764.0	70.2	21.2	100	calm	0	0			10 n		sw.	0.65	16.5	light rain	J. A. Cody.
La Crosse, Wisconsin	29.23	742.4	29.98	761.5	67	19.4	93	n.	4	1.8			10 s			0.23	5.8	cloudy	S. C. Emery.
La Mesilla, New Mexico	26.14	663.9	29.86	758.4	67.3	19.6	70	calm	0	0			10 s			0.03	0.8	cloudy	N. D. Lane.
Leavenworth, Kansas	29.10	739.1	29.96	761.0	65	18.3	93	n.	5	2.2			10 s; fg			0.06	1.5	cloudy	A. W. Browne.
Lewiston, Idaho	29.17	740.9	29.98	761.5	60.5	15.8	44	se.	1	0.4		4 ck	0	s.		0	0	fair	W. Bell.
Little Rock, Arkansas	29.66	753.4	29.97	761.2	73	22.8	97	calm	0	0			10 ks			inap.	inap.	cloudy	W. U. Simons
Los Angeles, California	29.47	748.5	29.86	758.4	62.3	16.8	78	se.	1	0.4		0	0			0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.42	747.3	29.98	761.5	73	22.8	90	s.	5	2.2		4 k	5 k; sk			0.50	12.7	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.40	746.7	30.08	764.0	72.6	22.6	92	ne.	2	0.9			10 s		e.	0.94	23.9	cloudy	Lewis Duane.
Macon, Fort, North Carolina	30.06	763.5	30.07	763.8	78	25.6	97	nw.	11	4.9		8 c	2 k	nw.	nw.	0	0	cloudy	F. P. Chaffee.
Madison, Wisconsin	29.00	736.6	29.98	761.5	68	20.0	93	ne.	6	2.7			10 s		ne.	0.02	0.5	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.58	649.7			70	21.1	44	n.	12	5.4		2 k	0			inap.	inap.	clear	H. W. Dodge.
McKavett, Fort, Texas	27.71	703.8	29.92	760.0	71	21.7	84	calm	0	0		5 ck	0			0.40	10.2	fair	J. E. Thatcher.
Marquette, Michigan	29.40	746.7	30.10	764.5	64	17.8	78	calm	0	0		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.65	753.1	29.98	761.5	74	23.3	90	calm	0	0			10 s			0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.26	743.2	29.99	761.7	66	18.9	100	ne.	5	2.2			10 s			0.12	3.0	cloudy	W. Line.

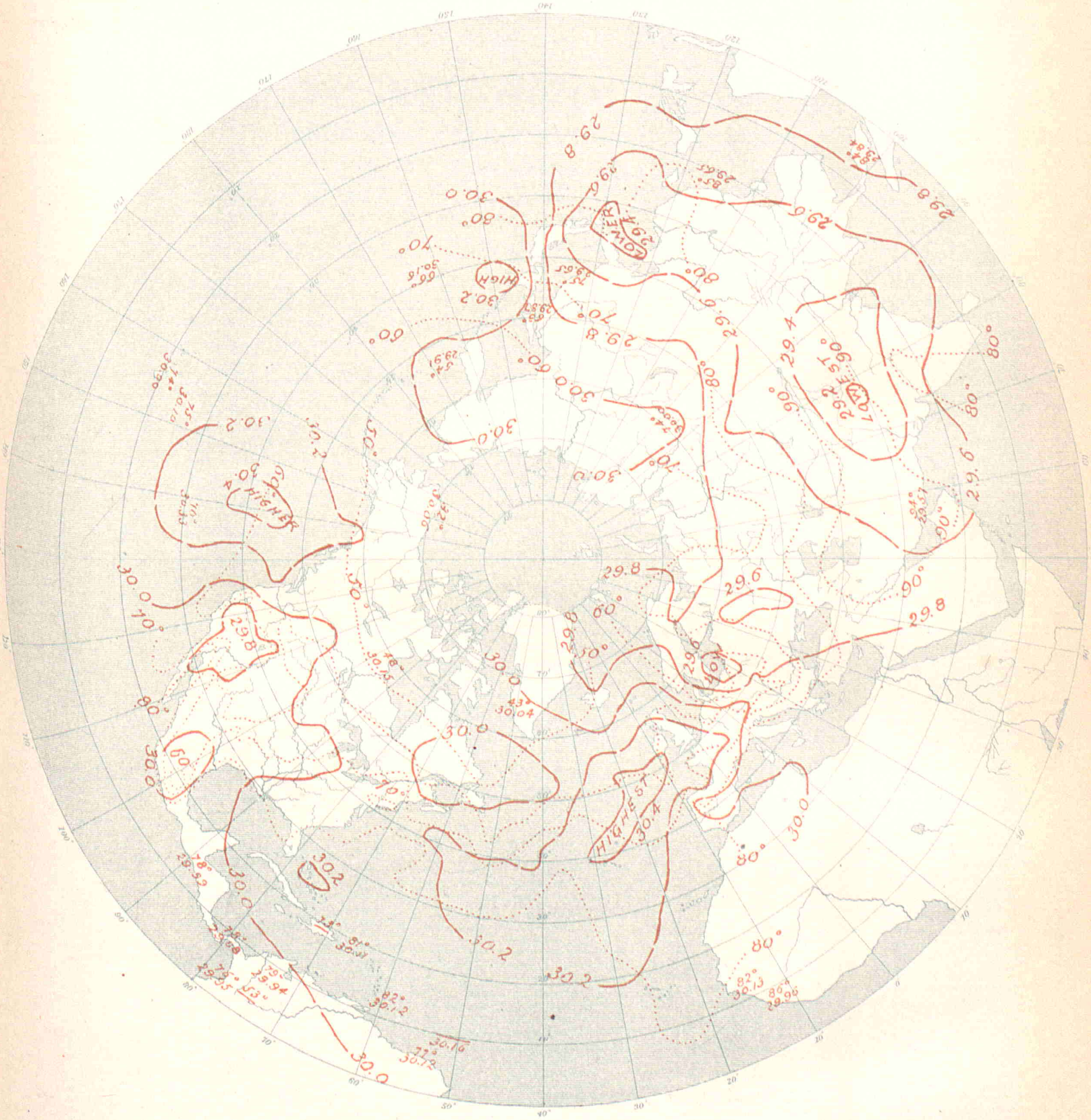
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec.	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.71	678.4	29.93	760.2	60	15.6	78	n.	2	0.9		0	0			0.07	1.8	clear	J. H. Jones.
Mobile, Alabama	30.03	762.7	30.07	763.8	77	25.0	84	w.	4	1.8			10 s		w.	0.37	9.4	cloudy	C. A. Read.
Montgomery, Alabama	29.85	758.2	30.08	764.0	75.7	24.3	91	s.	2	0.9		0	4ks;s		w.	0.52	13.2	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.10	739.1	30.07	763.8	65	18.3	90	e.	7	3.1		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.06	738.1	30.06	763.5	71.5	21.9	87	sw.	2	0.9		4 ck	0			0.56	14.2	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.12	612.6	30.20	767.1	55.5	13.1	80	nw.	14	6.3		9 cs	sk.	nw.	nw.	0.12	3.0	cloudy	J. G. Pinsley.
Nashville, Tennessee	29.44	747.8	30.00	762.0	73.0	22.8	90	e.	3	1.3			10 ks		s.	0.77	19.6	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.03	762.7	30.14	765.5	67.5	19.7	89	se.	3	1.3		9 cs	sk.			0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.09	764.3	30.14	765.5	71	21.7	82	nw.	2	0.9		8 c	0			0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.99	761.7	30.04	763.0	76.0	24.4	90	se.	8	3.6			10 n		se.	0.58	14.7	light rain	L. Dunne.
Newport, Rhode Island	30.10	764.5	30.15	765.8	73.0	22.8	84	se.	4	1.8		4 ck	2ks;sk	nw.	nw.	0	0	fair	W. McGillivray.
New York, New York	29.97	761.2	30.14	765.5	69	20.6	100	ne.	10	4.5			fg.			0	0	dense fog	J. B. Merrill.
Norfolk, Virginia	30.04	763.0	30.07	763.8	80	26.7	82	n.	6	2.7		0	6 s		n.	0	0	fair	Wm. Davis.
North Platte, Nebraska	27.19	690.6	29.99	761.7	56.6	13.7	88	calm	0	0		0	fg.			0	0	light fog	E. F. Brady.
Olympia, Washington T'y	30.09	764.3	30.13	765.3	57.0	13.9	80	s.	2	0.9			10 s			0.06	1.5	cloudy	J. Dascomb.
Oglaamie, Pt. Barrow, Alas.	30.04	763.0	30.06	763.5	32.2	0.1	100	ene.	7	3.1			10 s			0	0	cloudy	P. H. Ray.
Omaha, Nebraska	28.86	733.0	30.00	762.0	64.9	18.3	93	n.	6	2.7			10s;fg			0.20	0.6	cloudy	A. Pollak.
Oswego, New York	29.79	756.7	30.11	764.8	77.0	25.0	64	s.	3	1.3			10 s			0	0	cloudy	S. W. Beall.
Palestine, Texas	29.45	748.0	29.99	761.7	73.0	22.8	82	sw.	4	1.8		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.06	763.5	30.10	764.5	73.0	22.8	97	nw.	8	3.6			10 n			2.82	71.6	thund'r st'm	M. McGauran.
Philadelphia, Pa.	30.02	762.5	30.12	765.0	72.5	22.5	97	ne.	11	4.9			10s;hz		ne.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.03	458.0	29.82	757.4	36	2.2	85	n.	8	3.6		0	0			0	0	clear	L. M. Dey.
Pioche, Nevada	24.04	610.6	29.74	755.4	66	18.9	42	s.	3	1.3		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.27	743.4	30.06	763.5	69.7	20.9	90	ne.	1	0.4			10 s		e.	0.29	7.4	cloudy	J. S. Turton.
Poplar River, Montana	27.80	706.1						se.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.05	763.3	30.06	763.5	81.0	27.2	79	sw.	22	9.8		2 c	3 ks	sw.	sw.	0.42	10.7	fair	M. Hermann.
Port Huron, Michigan	29.38	746.2	30.04	763.0	72.5	22.5	82	e.	2	0.9		5 c	0	s.		0.28	7.1	fair	W. O. Bailey.
Portland, Maine	30.02	762.5	30.07	763.8	73.0	22.8	66	sw.	4	1.8		7 c	0			0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.07	763.8	30.14	765.5	51.0	10.6	93	n.	1	0.4			10 s		nw.	0	0	cloudy	M. L. Hearne.
Prescott, Arizona	24.81	630.2	29.79	756.7	68	20.0	68	s.	2	0.9		0	0			0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.10	764.5	30.13	765.3	74	23.3	84	s.	6	2.7		2 cs	5s;fg	sw.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.12	765.0	30.13	765.3	80	26.7	82	se.	12	5.4		1 k	0	calm		0	0	clear	W. J. Evans.
Red Bluff, California	29.46	748.3	29.82	757.4	69.4	20.8	40	n.	3	1.3		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.76	755.9	30.00	762.0	79	26.1	82	se.	6	2.7		8 ck	0	n.		0	0	cloudy	H. S. Miles.
Rochester, New York	29.46	748.3	30.11	764.8	72	22.2	76	se.	4	1.8		10 k	sk.			0	0	cloudy	E. W. McGann.
Roseburg, Oregon	29.59	751.6	30.13	765.3	50	10.0	77	calm	0	0		0	0			0	0	clear	J. J. Naury.
Sacramento, California	29.72	754.9	29.79	756.7	61.1	16.2	72	se.	7	3.1		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.36	745.7	29.94	760.5	70.0	21.1	94	se.	4	1.8		hz.	0			0.15	3.8	clear	J. H. Webber.
St. Paul, Minnesota	29.17	740.9	30.01	762.2	67.0	19.4	90	n.	2	0.9		1 ck	0			0.01	0.3	clear	P. F. Lyons
St. Vincent, Minnesota	29.23	742.4	30.08	764.0	61	16.1	93	se.	1	0.4		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	28.58	649.7	29.77	756.1	73	22.8	51	se.	4	1.8		2 k	0			inap.	inap.	clear	J. Craig.
San Antonio, Texas	29.29	744.0	29.98	761.5	77.2	25.1	74	se.	2	0.9		3 k	2 s			0	0	fair	T. J. Kenan.
San Diego, California	29.77	755.1	29.84	757.9	66.0	18.9	84	s.	4	1.8			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.36	745.7	30.02	762.5	71.4	21.9	90	s.	6	2.7		3 ck	2 ks	sw.		2.32	58.9	fair	M. H. Perry.
Sandy Hook, New Jersey	30.10	764.5	30.14	765.5	72.0	22.2	67	ne.	12	5.4			fg			0	0	dense fog	B. A. Blundon.
San Francisco, California	29.80	756.9	29.87	758.7	54	12.2	86	sw.	6	2.7		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.35	593.1	29.84	757.9	56	13.3	77	ne.	6	2.7		0	0			0.20	5.1	clear	H. U. Jones.
Savannah, Georgia																0.68	17.3		H. W. Ford.
Shaw, Fort, Montana	26.38	670.0	29.92	760.0	62	16.7	65	w.	16	7.2		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.74	755.4	29.98	761.5	73	22.8	90	calm	0	0		1 cs	4 k			0	0	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.79	731.3	29.97	761.2	63.5	17.5	85	n.	11	4.9		1 ck	0	w.		0	0	clear	T. Cleary.
Silver City, New Mexico	24.35	618.5	29.81	757.2	59	15.0	78	s.	1	0.4		3 k	2 s	calm	calm	0	0	fair	J. B. Wallace.
Sitka, Alaska	30.20	767.1	30.26	768.6	52	11.1	86	nw.	3	1.3			10 s		nw.	0	0	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.49	749.0	29.95	760.7	66.5	19.2	93	nw.	2	0.9			10 s		n.	0.18	4.6	cloudy	J. B. Campbell.
Smithville, North Carolina	30.06	763.5	30.10	764.5	78	25.6	82	w	8	3.6		6 cs	1 k	w.		0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.02	711.7	30.02	762.5	54	12.2	69	sw.	3	1.3		2 k	0			0	0	clear	D. Moore.
Springfield, Illinois	29.29	744.0	29.95	760.7	68	20.0	90	calm	0	0		3 c	1s;fg	s.	s.	inap.	inap.	fair	T. B. Jennings.
Springfield, Massachusetts	30.02	762.5	30.15	765.8	70.0	21.1	76	s.	2	0.9		10 k	0	nw.		0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.54	724.9	29.93	760.2	63	17.2	93	calm	0	0			fg.			inap.	inap.	dense fog	J. B. Marbury.
Starkville, Miss.	29.54	750.3	30.01	762.2	79	26.1	82	se.	6	2.7			10 s		se.	0	0	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.24	717.3	30.02	762.5	63	17.2	84	e.	5	2.2		0	0			0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.02	686.3	29.96	761.0	60.3	15.7	87	sw.	4	1.8		3 cs	0			0.01	0.3	clear	J. O'Dowd.
Thomas Camp	27.19	690.6	29.81	757.2	74.5	23.6	75	calm			0	3 cs	1 k	sw.	sw.	inap.	inap.	fair	
Thatcher's Island, Mass.	30.08	764.0	30.13	765.3	66.5	19.2	84	sw.	8	3.6		4 c	hz.	w		0	0	fair	G. Liebmann.
Toledo, Ohio	29.31	744.5	29.98	761.5	73	22.8	87	se.	2	0.9		4 c	0	w.		inap.	inap.	fair	A. Buell.
Tucson, Arizona	27.48	698.0	29.82	757.4	76	24.4	74	se.	6	2.7		0	2 k			0.06	1.5	clear	J. L. Whiteside.
Umatilla, Oregon	29.72	754.9	30.08	764.0	54.5	12.5	71	sw.	2	0.9		0	0			0	0	clear	J. Daly.
Uvalde, Texas	29.02	737.1	29.96	761.0	75	23.9	76	se.	3	1.3		8 cs	0	sw.		0.01	0.3	cloudy	E. C. Imlay.
Verde, Fort, Arizona					68.8	20.4	53	w.			1	0	0			0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.76	755.9	30.00	762.0	73	22.8	97	s.	6	2.7			10 s			0.25	6.3	cloudy	James Kenealy.
Visalia, California	29.42	747.3	29.79	756.7	69	20.6	47	nw.	4	1.8		0	0			0	0	clear	W. L. Seward.
Washakie, Fort, Wyoming	24.51	622.5	29.85	758.2	57.3	14.1	72	calm	0	0		3 c;k	0			0	0	clear	T. M. Ambler.
Washington, D. C.	30.01	762.2	30.12	765.0	72.6	22.0	86	ne.	3	1.3			10 s		ne.	0.03	0.8	cloudy	F. M. M. Beall.
West Las Animas, Colorado	26.11	663.2	29.86	758.4	58	14.4	78	e.	9	4.0		0	0			0	0	clear	F. H. Brandenburg
Williamsport, Pa.	29.54	750.3	30.12	765.0	69.5	20.8	80	se.	1	0.4		3 cs	5 ks			0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.03	762.7	30.08	764.0	77	25.0	90	w.	5	2.2		4 k	4 s	w.	w.	0.42	10.7	cloudy	Samuel A. Haney.
Winnemucca, Nevada	28.54	648.7	29.77	756.1	55.5	13.1	44	sw.	4	1.8		1 k	0	w.		0	0	clear	J. Grover.
Yankton, Dakota	28.74	730.0	30.01	762.2	62	16.7	73	calm	0	0		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.58	751.3	29.72	754.9	87.7	30.9	49	se.	17	7.6		0	6 s		se.	0	0	fair	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.09	561.1			52.5	11.4	79	e.	2	0.9			10 s			0.10	2.5	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W.I	30.11	764.8	30.12	765.0	82	27.8	91	e.				3 k	3 ks			0	0		J. A. Racker.
Buenaventura, U. S. C.	29.92	760.0	29.95	760.7	76	24.4	95	s.	4	1.8			10 n		s.	2.35	59.7	light rain	J. I. Plume.
Havana, Cuba†	30.05	763.3	30.11	764.8	81	27.2	79	se.	2.4	1.1		10 cs	0	se.		c	0	fair	Robert Johnston.
Kingston, Jamaica, W. I.	30.08	764.0	30.09	764.3	81.2	27.3	78	n.	2	0.9		0	0			0	0	fine	S. M. Pike.
Magua, San Domingo, W. I					73	22.8		calm			0	0	0			0	0		F. M. Everett.
Navassa	29.96	761.0	30.04	763.0	82	27.8	74	e.	8	3.6		3 k	1 ks	se.	e.	0	0	fair	Chas. Hasselbrink.
Paramaribo, S. A.	30.12	765.0	30.12	765.0	77	25.0	86	se.			2	3 c	0	e.		0.020	0.5	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.38	746.2	29.94	760.5	79	26.1	80	n.			1	5 ck	5 ks	calm	n.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							92	ne.			3	1 cs	1 ks	se.	ne.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.02	762.5	30.08	764.0	52	11.1	100	se.			6		10 n			1.29	32.8	heavy rain	W. J. Fisher.
St. Thomas, W. I.	30.06	763.5	30.10	766.8	82	27.8	74	se.				0	3 k		se.	0	0	clear	Aug. Walloe.
York Factory, B. A.	30.09	764.3	30.15	765.8	48.0	8.9	92	nw.	12	5.4		3 k	3 s	nw.	nw.	0	0	fair	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, N. 15° 50′ W. 26° 09′	30.17	766.3	79.8	26.6	79	ne.			2-3		5							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.91	759.7	81	27.2	78	nw.			3		4	nnw.				2	nw.	d. clouds.
H. M. S. Amethyst, S. 27° 16′, W. 48° 28′	30.45	773.4	61.5	16.4	85	n.			1		8					4	ne.	d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.83	757.7	79	26.1		nnw.			1-2		7	nne.						d. clouds.
H. M. S. Arab, Muscat Arabia	29.39	746.5	92	33.3	70	calm			0		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.31	769.9	59.5	15.3		calm			0		0							blue sky.
H. M. S. Champion, N. 41° 30′, E. 136° 30′			74	23.3	90	e.			5-6		1					5	e.	blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	30.01	762.2	52	11.1	72	calm			0		4	nnw.						d. clouds.
H. M. S. Diamond, S. 10° 17′, E. 159° 53′	29.87	758.7	81	27.2	86	e.			3-5		2					1	e.	d. clouds.
H. M. S. Dido, N. 17′, 00° W. 62° 00′	30.18	766.0	81	27.2		ene.			1		2	e.						d. clouds.
H. M. S. Dock-Yard, Bermuda, W. I.	30.03	762.7	78.5	25.8	86	ne.			3-4		6	ne.						d. clouds.
H. M. S. Druid, N. 49° 47′, W. 20° 25′	30.41	772.4	62	16.7	94	s.			1-3		8					1	s.	d. clouds.
H. M. S. Emerald, N. 36° 20′ W. 27° 20′	30.37	771.4	73.5	23.1	100	nne.			1-3		2	nne.				1-2	nne.	d. clouds.
H. M. S. Espiegle, S. 15° 14′ E. 167° 54′	29.92	760.0	79	26.1	90	ese.			2		0							squally.
H. M. S. Fantome, N. 10° 37′, W. 66° 56′	30.03	762.7	80	26.7		se.			2		4	se.				2	se.	d. clouds.
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33	29.38	746.2	71	21.7	87	n.			5-6		9					2	n.	misty.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.09	764.3	58.5	14.7	90	w.			1		9							d. clouds.
H. M. S. Garnet, Fayal, Azores Islands	30.40	772.1	76	24.4	85	calm			0		7							d. clouds.
H. M. S. Griffon, N. 46° 16′, W. 59° 38′	30.00	762.0	59.5	15.3	82	ssw.			1		2					3	ssw.	d. clouds.
H. M. S. Iron Duke, N. 48° 35′, E. 140° 55′	29.87	758.7	63	17.2	94	ssw.			3-4		10					4	ssw.	misty.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.90	759.4	79.3	26.3	93	calm			0		0							blue sky.
H. M. S. Liffey, Coquimbo, Chili	29.96	761.0	55	12.8		sw.			1									d. clouds.
H. M. S. Magpie, N. 35° 07′, E. 128° 40′	29.34	745.2	82.6	28.1	74	nne.			1		6							d. clouds.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.88	758.9	81	27.2	72	nw.			3		4							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.95	760.7	69	20.6	87	calm			0		4							d. clouds.
H. M. S. Pegasus, N. 5° 24′, E. 100° 20′	29.84	757.9	84	28.9	79	nnw.			1		8							d. clouds.
H. M. S. Rambler, S. 9° 09′, W. 13° 13′	30.17	766.3	76	24.4	90	e.			3		2	ese.				3	se.	d. clouds.
H. M. S. Sappho, Honolulu, Sandwich Island	30.00	762.0	74	23.3	81	calm			0		3							d. clouds.
H. M. S. Swiftsure, Sandy Point, Patagonia	30.18	766.6	39	3.9	91						10	ssw.						misty.
H. M. S. Tenedos, N. 51° 20′ W. 55° 36′	29.92	760.0	49	9.4	93	n.			1		10							drizzling.
H. M. S. Triumph, S. 50° 43′, W. 66° 22′	30.18	766.6	43	6.1	83	calm			0		0					1	n.	blue sky.
H. M. S. Woodlark, Jask, Persia	29.47	748.5	93.5	34.2	67	w.			4-5		1	w.				3	w.	squally.
H. M. S. Zephyr, N. 47° 55′, E. 140° 33′	29.78	756.4	58	14.4	100	s.			4-6		0					1	s.	blue sky.
Portuguese Naval.																		
Rio Lima, Bulama, Senegambia	30.13	765.2	81.5	27.5	88	nw.			1		4			1 h'r	1 h'r			showery.
Tamega, Hong Kong, China	29.63	752.7	82.0	27.8	80	calm			0		2							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.92	760.0	73	22.8	95	nw.	8	3.6			10		sw.	1.40	35.6			cloudy.
Navy Yard, Portsmouth, N. H	29.99	761.7	69	20.6	80	calm	0	0			3		nw.	0	0			fair.
Naval Hospital, Yokohama, Japan*	29.82	757.4	77.5	25.3	73	s.			3		8		se.	0.04	1.0			clearing.
Adams, Mare Island, Cal			60	15.6	82	sw.			2		5			0	0	sm'h		fair.
Alaska, S. 9° 36′ W. 91° 09′	30.01	762.2	68	20.0	74	sse.			3		10		sse.	0	0	long	s.	cloudy.
Alliance, Boston, Mass	30.12	765.0	71	21.7	80	wsw.			1		2			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan*	29.83	757.7	79	26.1	78	s.			4		10		s.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.51	774.9	65	18.3	89	nne.	3	1.3			5		e.	0.01	0.3	sm'h		fair.
Colorado, New York, N. Y	30.11	764.8	71	21.7	95	ne.	2	0.9			10		calm	0	0			hazy.
Constellation, N. 39° 43′, W. 73° 11*	30.12	765.0	75	23.9	95	ene.			3		5		ene.			sm'h		fair.
Enterprise, Boston, Mass	30.10	764.5	66	18.9	?	sw.			1		2		calm					clear.
Essex, Coquimbo, Chili	30.03	762.7	55	12.8	87	w.			2		10					sm'h	w.	foggy.
Franklin, Norfolk, Va	30.09	764.3	76	24.4	95	nw.	6	2.7			5		calm	0	0			fair.
Galena, Funchal, Madeira	30.17	766.3	72	22.2	95	nw.			3		5					sm'h		fair.
Independence, Navy Yard, Mare Island, Cal	29.90	759.4	60	15.6	50	sw.			2		0			0	0			clear.
Iroquois, N. 25° 55′ W. 114° 13′	29.88	758.9	67	19.4	89	wnw.			2		10		nw.	0	0	sm'h	nw.	cloudy.
Kearsarge, Norfolk, Va	30.06	763.5	76	24.4	100	n.			2		8		n.					fair.
Lackawanna, Callao, Peru*	30.06	763.5	60	15.6	94	s.			1		8							cloudy.
Lancaster, Villafranca, France*	29.83	757.7	80	26.7	78	ene.			1		2		e.	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	30.11	764.8	58	14.4	100	n.			2		8		calm			sm'h		fair.
Michigan, Milwaukee, Wisconsin	29.93	760.2	68	20.0	95	ne.			2		10							cloudy.
Minnesota, N. 31° 29′, W. 75° 38′	30.16	766.1	70	21.1	?	e.	5	2.2			10						se.	foggy.
Monocacy, Che Foo, China*	29.60	751.8	72	22.2	85	ene.			3		5		ene.			sm'h		fair.
New Hampshire, Newport, R. I	30.17	766.3	70	21.1	100	nw.			1		8		s.			sm'h		cloudy.
Nipsic, N. 43° 40′, E. 7° 26′*	29.91	759.7	80	26.7	78	sw.			1		2					sm'h		clear.
Onward, Callao, Peru	30.17	766.3	59	15.0	94	calm			0		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.39	746.5	80	26.7	82	ese.			4		10		ese.			sm'h		raining.
Passaic, Washington, D. C	30.14	765.5	72	22.2	100	ne.			1		10		ne.					cloudy.
Pensacola, Panama, Panama*	29.83	757.7	78	25.6	86	nw.	6	2.7			8			mod.	mod.	sm'h		fair.
Portsmouth, N. 42° 55′, E. 7° 06′*	29.78	756.4	76	24.4	73	se.			3		0					light	sw.	hazy.
Powhatan, Hamp on Roads, Virginia	30.07	763.8	78	25.6	95	nw.			2		8		nw.					cloudy.
Quinnebaug, Alexandria, Egypt	29.87	758.7	80	26.7	78	nnw.			2		8		nnw.			sm'h		fair.
Ranger, Mare Island, Cal	29.88	758.9	64	17.8	58	ssw.			3		0			0	0			clear.
Richmond, Yokohama, Japan*	29.85	758.2	79	26.1	78	s.			6		2		s.	0	0	r'gh	s.	threatening.
Saratoga, N. 43° 47′, E. 7° 55′	29.70	754.4	80	26.7	78	se.			1-2		2		se.	0	0	sm'h		clear.
St. Louis, League Island, Pa	30.21	767.3	72	22.2	95	ne.			2		8			0	0			cloudy.
Swatara, Kobe, Japan*	29.28	743.7	80	26.7	87	ene.			4		10		se.			mod.	ene.	light rain.
Tennessee, Boston, Mass	30.17	766.3	68	20.0	95	w.	4.5	2.0			2			0	0			fair.
Vandalia, Portsmouth, N. H*	30.07	763.8	71	21.7	85	calm			0		8		calm					cloudy.
Wabash, Boston, Mass	30.13	765.3	71	21.7	71	sw.	4	1.8			2		sw.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska	30.39	771.9	51	10.6	79	w.			1		0			0	0	sm'h		clear.
Wyoming, Port Royal, S. C*	30.15	765.8	77	25.0	86	wsw.	10	4.5			5		w.	0	0			fair.
Yantic, Boston, Mass	30.12	765.0	70	21.1	80	sw.			1		2							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Circassian, N. 48° 45′, W. 67° 45′*	29.85	758.2	59	15.0	94	nnw.			3		7		nw.	0.01	0.3	sm'h		squally.
S. S. Grecian, N. 52° —′ W. 5° 33′*	30.33	770.4	63	17.2		n.			4		8		wnw.	0	0	sm'h		cloudy.
S. S. Scandinavian, N 52° 45′, W. 13° 23′	30.16	766.1	59	15.0		wsw.			2				wsw.			light	nw.	showery.
S. S. Waldensian, N. 50° 40′, W. 39° 06′*	29.94	760.5	69	20.6		sse.			3		fg		sse.	6 h'r	6 h'r	mod.	ssw.	rain & fog.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 49° 43′, W. 22° 30′†	30.39	771.9	62	16.7		s.			4		10			0	0	sm'h		overcast.
S. S. Indiana, N. 39° 22′, W. 65° 12′†	30.28	769.1	70	21.4	95	nw.			3		2		w.			sm'h	w.	fine.
S. S. Lord Clive, Philadelphia, Pa*†	30.05	763.3				ne.			2		10		ne.	shr's	shr's			cloudy.
S. S. Ohio, Philadelphia, Pa.†	30.04	763.0	73	22.8	95	ne.			4		10		e.					overcast.
AMSTERDAM LINE.																		
S. S. Jason, N. 40° 22′, W. 70° 30′*	30.11	764.7	68.0	20		ene.			2		10 n					2	se.	foggy.
S. S. Stella, N. 45° 12′ W. 44° 44′	30.10	764.5	69.8	21		wsw.			2		3		w.	0	0	2	w.	foggy.
ANCHOR LINE.																		
S. S. Alexandria, Messina, Sicily	29.89	759.2	78	25.6		nne.			4		2		ne.	0	0			clear.
S. S. Assyria, N. 43° 02′, W. 45° 34′†	30.19	766.8	68	20.0		wnw.			3		8		wnw.	0	0	sm'h		fine.
S. S. Bolivia, Moville, Ireland†	30.33	770.4	58	14.4		w.			5		10		w.	5 h'r	5 h'r			overcast.
S. S. Devonia, N. 49° 20′, W. 35° 48′†	30.24	768.1	61	16.1		s.			3		7		s.			light	sw.	cloudy.
S. S. Dorian, N. 42° 28′, W. 51° 02′*	30.01	762.2	59	15.0		var.			1		0			0	0	sm'h		fine.
S. S. Ethiopia, New York, N. Y.	30.13	765.3	76	24.4	?	ne.			3		9		ne.	0	0			hazy.
ATLAS LINE.																		
S. S. Allsa, Savanilla, U. S. C†.	29.98	761.5	83	28.3	83	ne.			5		8		ne.	0	0			hazy.
S. S. Alene, Petit Goave, Hayti, W. I.†	30.06	763.5																
S. S. Alpin, Ponce, Porto Rico, W. I.	29.99	761.7				se.			1		1		e.	0	0			clear.
S. S. Alvo, N. 31° 14′, W. 74° 18	30.07	763.8				w.			4		2		w.	0	0	mod.	w.	clear.
S. S. Antillas, N. 24° 14′, W. 67° 52′†.	30.00	762.0	84	28.9		sbw.			2		5		ssw.	0	0	sm'h		squally.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 46° 30′, E. 9° 50′	29.96	761.0	54	12.2	87	nw.			6		6							misty
S. Baroda, S. 6° 00′, W. 11° 23′	30.22	767.0	74.8	23.8	79	sse.			3		1							blue sky.
S. Basil, S. 2° 21′ W. 40° 14′	30.12	765.0	78.4	25.8	86	se.			5		1							blue sky.
Bk. Caldew, S. 33° 56′ W. 12° 10′	30.01	762.2	61	16.1	77	w.			6		5							d. clouds.
Bk. Commewyne, N. 39° 10′, W. 41° 38′	30.20	767.1	77.2	25.1	90	ssw.			3		10							showery.
S. S. City of Agra, S. 38° 22′, W. 19° 38′	30.09	764.3	48	8.9	85	sw.			5		7							d. clouds.
S. S. Minho, N. 10° 07′, W. 26° 14′	30.14	765.5	78.9	26.1	92	ssw.			2		9							overcast.
Bkt. May Hulse, N. 32° 16′, W. 38° 47′	30.32	770.1	82	27.8	67	ese.			2		4							blue sky.
S. S. Mertola, N. 43° 58′, W. 11° 12′	30.16	766.1	64.5	18.1	89	ne.			8		7							d. clouds.
S. Oamaru, S. 60 05′, W. 160 00′	30.21	767.3	76.5	21.7	72	e.			4		3							d. clouds.
S. S. Pole Star, N. 47° 40′, W. 23° 11′	30.39	771.9	63.5	17.5	94	sw.			3		9							showery.
S. S. Rosetta, N. 14° 58′ E. 113° 54′	29.69	754.1	81.5	27.5	83	sw.			4		10							raining.
CUNARD LINE																		
S. S. Marathon, Portsmouth, Eng	30.06	763.5	64	17.8		nw.			2		3		nw.	0	0	sm'h	nw.	fine.
S. S. Scythia, N. 41° 44′ W. 54° 53′	30.11	764.8	72	22.2	90	calm			0		1		w.	0	0			fine.
DONALDSON LINE.																		
S. S. Colina, N. 37° 49′, W. 71° 26′†	30.10	764.5				e.			2		2		e.			sm'h		fair.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. Ville de Marseilles, N, 37° 36′, W. 22° 59′*†	30.20	767.1	72	22.2		ne.			6		6		ne.	0	0	long	ne.	cloudy.
GUION LINE.																		
S. S. Wisconsin, N. 43° 04′, W. 47° 43′	30.15	765.8	67	19.4		sw.			2		2		nw.	0	0	sm'h		fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Herder, N. 50° 00′, W. 3° 40′ *	30.06	763.5	70	21.1		nw.			5		7		nnw.	0	0	mod.	nw.	cloudy.
S. S. Silesia, Hamburg, Germany	29.77	750.1	64.8	18.2		w.			6–7				w.	8 h'r	8 h'r			raining.
S. S. Westphalia, New York, N. Y.	30.08	764.0	72	22.2	97	n.			1		10			0	0			misty.
S. S. Wieland, N. 41° 00′, W. 63° 33′	30.21	767.3	73	22.8		se.			1		2			0	0			clear.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, Buenos Ayres, S. A*†	30.20	767.1	50	10.0		sw.			4		10		w.	12 h'r	12 h'r			thund'r st'm.
MAILORY LINE.																		
S. S. City of Antonio, N. 35° 10′, W. 75° 10′ *†	30.20	767.1				nnw.			1		5		sw.	0	0	sm'h		fair.
S. S. Colorado, N. 27° 10′, W. 87° 57′†	30.10	764.5	82	27.8		calm			0		10			light	light	small	se.	overcast.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 38° 21′, W. 37° 09′*†	30.39	771.9	80	26.7	78	s.			3		5		s.	0	0	mod.	ssw.	fair.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 9° —′, W. 52° —′†	30.06	763.5				var.			3		5		se.	1 h'r.	1 h'r	sm'h		showery.
MORGAN LINE.																		
S. S. Chalmette, New York, N. Y.†	30.10	766.1	77	25.0		ne.			2		5		sw.	0	0			fair.
S. S New York, N. 26° 30′, W. 85° 35′ †.	30.25	768.3	82.0	27.8		sw.			5		2		s.			sm'h	s.	clear.
NATIONAL LINE.																		
S. S. Denmark, N. 40° 40′ W. 64° 53′	30.15	765.8	74	23.3		ese.			1		2		ene.	0	0			clear.
S. S. Erin, N. 45° 43′, W. 37° 37′	30.09	764.3	66	18.9	84	sse.			6		0			0	0	mod.	sse.	fine.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 24° 38′, W. 74° 00′†	30.22	767.6	80	26.7		nne.			5		5		nne.	1 h'r	1 h'r	sm'h		fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W. I.†	30.15	765.8	82	27.8	91	calm			0		0			0	0			clear.
S. S. City of Washington, Vera Cruz, Mexico.*†	30.05	763.3	83	28.3		w.			1		5		e.	0	0	sm'h		fair.
NORTH GERMAN LLOYD																		
S. S. America, N. 37° 33′, W. 70° 37′*	30.10	764.5	81.0	27.2	84	sw.			4		3		wsw.	0	0	mod.	wsw.	clear.
S. S. Koln, N. 49° 47′, W. 6° 53′*	30.37	771.4	68.0	20.0	70	n.			4		10		n.	0	0	mod.	nnw.	cloudy.
S. S. Ohio, N. 39° 55′, W. 59° 14′	30.21	767.3				w.			1		2		w.	0	0	sm'h	w.	fair.
S. S. Salier, N. 43° 08′. W. 59° 09′	30.17	763.3	60.8	16.0		w.			3		2		w.	0	0	mod.	w.	fair.
S. S. Strassburg, N. 47° 02′, W. 33° 38′	30.27	768.8	70.0	21.1	85	sbw.			3		1		nnw.	0	0	sm'h		fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic. N. 39° 33′, E. 166° 50′.†	30.16	766.1	66	18.9	84	nnw.			3		8		nw.	0	0	mod.	w.	cloudy.
S. S. Coptic, N. 32° 56′ E. 135° 46′	29.59	751.6	78.5	25.8	93	s.			0		10		s.	10 h'r	10 h'r	7	ene.	showery.
S. S. Gaelic, N. 35° 12′, E 141° 31′†	30.19	766.8	80	26.7	100	sse			6		5		s.			r'gh	s.	fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga†	30.18	766.6				w.			1		1		w.	0	0			clear.
S. S. Seminole, N. 39° 55′ W. 72° 50′†	30.17	766.3	78	25.6	82	e.			1		2		ese.	0	0	long	se.	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, Eagle Cliff, Columbia River, Oregon†	30.13	765.3	56	13.3	87	nw.			3		10		wnw.					cloudy.
S. S. Oregon, N. 45° 27′, W. 124° 32′†	30.20	767.1	58	14.4	82	nnw.			4		0					mod	nnw.	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal†	29.81	757.2	52	11.1	93	w.			1		0							clear.
S. S. City of Chester Off Gaviota, Cal. *†	29.82	757.4	63	17.2	?	ne.			3		5		w.			r'gh	nw.	fair.
S. S. Idaho, N. 47° 16′ W. 122° 21′†	30.14	765.5	58	14.4	88	calm			0		10		se.	0	0	sm'h		cloudy.
S. S. State of California, San Francisco, Cal†	29.87	758.7	52	11.1	79	w.			2		0							clear.
S. S. Victoria, San Francisco, Cal†	30.22	767.5	53	11.7	93	sw.			1		2			0	0	sm'h		hazy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W.	29.66	753.4	55	12.8	87	w.			5		8		w.	0	0			misty.
S. S. City of New York, Sydney, N. S. W.†	29.66	753.4	55	12.8	68	w.			2		2		w.	0	0			clear.
S. S. City of Pekin, N. 44° 13′, W. 140° 01′†	30.59	777.0	59	15.0	88	nw.			3		10		nw.	0	0	sm'h		cloudy.
S. S. City of Rio de Janeiro, La Libertad, San Sald'r*†	30.19	766.8	78	25.6	91	n.			2		5		n.	0	0	light	s.	fair.
S. S. City of Sydney, N. 31° 21′, W. 138° 52′†	30.33	770.4	70	21.1	75	ne.			3		8		ne.	0	0	mod.	ne.	cloudy.
S. S. City of Tokio, Hong Kong, China†	29.70	754.4	82	27.8	87	sw.			2		2		sw.	0	0			fine.
S. S. Colima, N. 35° 03′. W. 121° 08′†	29.86	758.4	57	13.9	87	nw.			5		0			0	0	r'gh	nw.	misty.
S. S. Colon, N. 22° 40′, W. 74° 20′†	30.18	766.6	83	28.3		ene.			3		1		ne.	0	0	sm'h		clear.
S. S. Grenada, Panama, Panama †	29.88	758.9	78	25.6	91	wnw.			2		8		wnw.	0	0	sm'h	nnw.	cloudy.
S. S. Zelandia, N. 24° 35′, W. 151° 55′	30.20	767.1	75	23.9	90	sse.			3		8		s.			sm'h		fine.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.			Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Amount and kind.		Direction.						
								Force.	Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	From.	From.	Inch.	Mill.			
Quebec Steamship Company.																	
S. S. Bermuda, N. 28° 41′ W. 67° 47′†	30.16	766.1	83	28.3		nnw.			2		5		nnw.	sh'rs	shr's	g'tl	nnw.	fine.
S. S. Muriel, N. 20° 46′, W. 64° 20′	30.14	765.5	84	28.9		sse.			2		10			o	o	sm'h		overcast.
Red D Line.																	
S. S. Valencia, N. 25° 49′, W. 69° 31′*†	30.35	770.9	86	30.6	68	ne.			3		2		se.	o	o	long	s.	fine.
Red Star Line.																	
S. S. Belgenland, Philadelphia, Penn †	30.27	768.8	75	23.9	86	ese.			4		6		e.	o	o			cloudy.
S. S. Nederland, N. 44° 53′, W. 38° 54′†	30.16	766.1	70	21.1	95	sse.			4		8		s.	o	o	mod.	s.	cloudy.
S. S. Rhynland, Antwerp, Belgium*†	30.47	773.9	65	18.3	89	n.			7		5		nne.	5 h'r.	5 h'r			squally.
S. S. Vaderland, Jersey City, N. J	29.95	760.7	71	21.7	95	se.			1		0			o	o			hazy.
S. S. Waesland, New York, N. Y	30.08	764.0	75	23.9		n.			4		5		w.	o	o			fair.
Rotterdam Line.																	
S. S. Edam, N. 41° 07′, W. 64° 28′	30.15	765.8	72.0	22.2	95	ese.			2		1		s.	o	o	sm'h	ese.	fair.
S. S. Schiedam, N. 40° 46′. W. 67° 55′	30.16	766.1	71.2	21.8	84	calm			0		6			o	o	sm'h		cloudy.
S. S. W. A. Scholten, N. 49° 16′ W. 14° 27′*	30.34	770.6	62.2	16.8	83	ese.			2		7		se.	o	o	sm'h	ese.	
Royal Mail Steam Packet Co.																	
S. S. Belize, New York, N. Y	30.17	766.3	74	23.3													
State Line.																	
S. S. State of Florida, New York, N. Y	30.02	762.5	77	25.0		ne.			2		9		ne.	o	o			cloudy.
S. S. State of Georgia, N. 45° 32′ W. 45° 22′†	30.09	764.3	58	14.4		wsw.			2		fg.			o	o	sh't	sw	dull.
Thingvalla Line.																	
S. S. Thingvalla, N. 50° 21′ W. 39° 06′†	30.24	768.1	60.8	16.0	86	ssw.			2		10		ssw.	o	o	mod	wsw.	
Warren Line.																	
S. S. Iowa, N. 42° 34′, W. 60° 23′*†	30.26	768.6	66	18.9		sw.			1		2		sw.	o	o	sm'h		clear.
W. I. & Pacific Steamship Co.																	
S. S. Venezuela, N. 49° —′, W. 20° —′*	30.30	769.6	64	17.8	89	s.			3		8		se.			sm'h		foggy.
White Star Line.																	
S. S. Adriatic, Liverpool, Eng*†	30.41	772.4	61	16.1	88	wnw.			4		10		wnw.	4 h'r	4 h'r			overcast.
S. S. Baltic, N. 50° 35′ W. 21° 25′	30.38	771.6	60	15.6	88	s.			3		10		s.	2 h'r	2 h'r	2	s.	d clouds.
S. S. Britannic, N. 51° 22′, W. 15° 31′†	30.49	774.4	57	13.9	94	w.			1		2		w.	o	o	sm'h		d. clouds.
S. S. Celtic, N. 41° 17′ W. 65° 46′†	30.23	767.8	70	21.1	90	calm			0		0			o	o	sm'h		fine
S. S. Germanic, N. 50° 30′, W 23° 48′†	30.40	772.1	60	15.6		s.			3		10		sse.	17 h'r	17 h'r	sm'h		misty.
S. S. Republic, N. 41° 28′, W. 60° 16′†	30.35	770.9	73	22.8	76	se.			3		3		se.	o	o	sm'h		d. clouds.
Wilson Line.																	
S. S. Romano. N. 44° 42′, W. 40° 26′	30.11	764.8	74	23.3		sw.			3		1		sw.	o	o	hv'y	sw.	clear.
Winsor Line.																	
S. S. Catherine Whiting, Providence, R. I†	30.16	766.1	72	22.2		calm			0				nw.	o	o			
Miscellaneous.																	
Bk. Adelaide, N. 37° 54′. W. 63° 55′*†	30.28	769.1	84	28.9		se.			3		2		se.	o	o	sm'h	se.	fair.
Schr. Ajax, N. 35° 39′ W. 74° 23′†	30.12	765.0				nne.			1		5		calm	o	o	sm'h	ne.	hazy.
Bk. Alpha, N. 57° 20′ W. 21° 30′†	30.09	764.3	57	13.9		ssw.			8		10		ssw.	1 h'r	1 h'r	hv'y	ssw	hazy.
Bk. Anna Thormann, S. 37° 52′, E. 84° 41′	30.30	769.5	53.6	12.0	74	wnw.			1		2 k		nw.	4 h'r	4 h'r	long	w.	clear.
S. S. Antonio Lopez, Havana, Cuba, W. I*	30.12	765.0	80.5	26.9	90	se.			1		8			o	o			cloudy.
Bk. Argonaut, N. 43° 56′, W. 55° 40′*†	30.10	764.5	62.6	17.0		wsw.			3		4		wnw.	o	o	mod.	w.	fair
Bk. Aureola, S. 1° 09′ W 36° 22′*†	30.26	768.6	82	27.8		s.			4		2		sse.	o	o	mod.	s.	clear.
Bk. B. F. Watson, N. 32° 33′ W. 43° 40′†	30.26	768.6	79	26.1		sse.			4		3		se.	8 h'r	8 h'r	sm'h	s.	fair.
Bk. Bergenseren, Off Prince Edward Id†	29.85	758.2				sw.			2		8		wsw.	o	o	sm'h		hazy.
Bk. Bremen, N. 54° 40′ W. 12° 53′						sw.			5		9		sw.	6 h'r	6 h'r	mod.	cross	foggy.
S. S. Burswell, N. 45° 46′ W. 1° 26′†	30.24	768.1	77	25.0		n.			3		0			o	o	sm'h		very fine.
Bk. Cato, Malmö, Sweden*†	29.96	761.0				nw.			4									cloudy.
Bk. Celestina, N. 7° 05′, W. 23° 41′*†	30.10	764.5				s.			2		3		ne.			sm'h		
Schr. C. R. Flint, N. 38° 30′, W. 74° 49′*†	30.24	768.1	72	22.2		ese.			1		5		e.	o	o	mod.	e.	fair.
S. Cornelius, N. 47° 34′. W 11° 36′*†	30.62	777.7	57 2	14.0		ne.			3		10		e.	o	o	mod.	ne.	cloudy.
S. Dora, N. 6° 35′ W. 22° 00′†	30.21	767.3	80.4	26.9		s.			3		4		s.	o	o	mod.	s.	fair.
Schr. Edith R. Seward, N. 36° 00′, W. 75° 15′*†	30.08	764.0	81	27.2		nw.			1		5		n.	o	o	long	nne.	fair
S. E. J. Spicer, New York, N. Y*	30.08	764.0	73	22.8		ne.			3		3		ne.	o	o			foggy.
S. Enoch Train, N. 47° 39′, W. 15° 40′†	30.60	777.2				ene.			3		5		ene.			sm'h		showery.
Bk. Essex, S. 14° 41′ E. 42° 00′*†	30.15	765.8	82	27.8		s.			5		1		s.	o	o	light	s.	fine.
Bk. Franklin, N. 51° 56′, W. 22° 30′*†	30.70	779.8				s.			4		10			o	o	sm'h		cloudy.
Bk. Freya, Baltimore, Md						nne.			3		8			o	o			lt. clouds
S. Glendon, N. 39° 20′ W. 65° 30′†	30.15	765.8	83	28.3		se.			2		9		se.	o	o	sm'h		fair.
Bk. Godfrey, N. 46° 32′, W. 11° 02′	30.34	770.6	62.0	17.	85	ne.			5–6		7		ene.	o	o	mod.	ene.	fair.
S. Grecian, N. 20° 00′, E. 115° 00′*†	29.65	753.1	85	29.4		w.			5		2		w.	o	o	r'gh	s.	fair.
Bk. Gronsvaer, N. 33° 00′ W. 44° 00′†	30.27	768.8				s.			5		3		s.	3 h'r	3 h'r	mod.		fair.
Bk. Hattie G. McFarland, Boston, Mass *†	30.12	765.0	78	25.6		wnw.			1		0			o	o			clear.
Bk. Heinrich & Tonio, N. 41° 47′, W. 40° 28′*†	30.42	772.7	75.5	24.2		var.			0–3		0			o	o	light	e.	clear.
Bk. Horace Scudder, Port of Spain, Trinidad, W. I†	30.17	766.3	78	25.6		calm			0		2		calm	2 h'r	2 h'r			blue sky.
S. Ivy, S. 34° 00′, W. 121° 24′†	30.20	768.5	56	13.3		wnw.			6		2		wsw.	o	o	r'gh	wsw.	squally.
S. Ismir, S. 7° 00′ E. 105° 35′†	29.94	760.5				ese.			1		8		e.	o	o	sm'h	se.	fine.
Schr. James Slater, N. 29° 16′ W. 76° 20′*†	30.41	772.4	84	28.9		wnw.			3		5		wnw.	o	o	short	nw.	
Schr. Jennie N. Huddell, Philadelphia, Pa†	30.02	762.5	75	23.9	90	ne.			1		2		ne	o	o			fair.
Bk. Johanne, N. 43° 25′, W. 57° 30′*†	30.05	763.3	67	19.4		w.			5		2		wnw.	o	o	sm'h		clear.
Bg. John Wesley, St. Jago, Cuba, W. I†	29.95	760.7				calm			0		0			½ h'r	½ h'r			clear.
Bk. Joseph A. Ropes, S. 35° 40′, W. 15° 44′*†	29.97	761.2	56	13.3	86	w.			5		6		w.	1 h'r	1 h'r	mod.	wnw.	cloudy.
Bkt. Josephine, Havana, Cuba, W I†	30.11	764.8	82	27.8	78	ese.			1		8			o	o			fair.
Bkt. Kryolith, N. 40° 03′, W. 71° 38′*†	30.10	764.5				e.			2		1					long	sse.	clear.
S. S. Laurel, N. 24° 52′, W. 81° 54′†	30.17	766.3	85	29.4		sse.			3		3		s.	o	o			fair.
Bk. Liberia, N. 28° 00′, W. 66° 30′*	29.96	761.0	83	28.3	83	wnw.			3–4		6		nw.	6 h'r	6 h'r			
Schr. Maggie Abbot, N. 22° 08′, W. 72° 00′†	30.14	765.5				e.					2		e.	o	o		ne.	
S. Minnie N. Gerow, N. 46° 14′, W. 32° 20′*†	30.31	769.9				se.			2		10		w.			sm'h	e.	fair.
S. M. P. Grace, S. 52° 09′, W. 83° 55′*	29.92	760.0	42	5.6		e.			1				sse.	o	o	sm'h	sse.	cloudy.
Bk. National Eagle, N. 38° 45′ W. 43° 40′†	30.14	765.5				ne.			2		3		ese.	o	o	sm'h		fair.
S. S. Nebo, N. 39° 12′, E. 0° 05′*†	29.90	759.4				sw.			2		0			o	o	sm'h	w.	clear.
S. Oracle, N. 37° 45′, W. 71° 42′	30.12	765.0	82	27.8	100	e.				5 c?		e.						cloudy.?
S. Orcalla, N. 28° 44′, W. 38° 45′*	30.18	766.6				e.			4		10		e.	o	o	mod.	e.	cloudy.
S. Paramita, N. 33° 39′ W 137° 01′†	30.36	771.1	77	25.0		ne.			4		1		ne.	o	o	short	nnw.	clear.
Bk. Rosebud, S. 36° 16′, E. 25° 45*†	30.30	769.6	64	17.8	89	w.			3		4		sw	sh'rs	sh'rs	sm'h		
S. St. Francis, N. 35° 54′ W. 58° 41′†	30.20	767.1	77	25.0		e.			1		1			o	o	long	e.	fine.
Bk. Sunbeam, N. 39° 13′ W. 43° 47′†	30.29	769.4	74	23.3	90	ne.			3		8		ne.	o	o	mod.	ene.	cloudy.
S. S. Sunbeam, N. 37° 01′, E. 2° 49′	30.02	762.5	91	32.8		e.			4		0					2	ese.	blue sky.
S. Sovereign Of The Sea, S. 37° 21′ W. 54° 24′*†	30.10	764.5	49	9.4	92	n.			3		10		w.	3 h'r	3 h'r	short	ene.	cloudy.
Bk. Truro, N. 40° 22′, W. 65° 15′*†	30.17	766.3				calm			0		2		n.	o	o	mod.	sw.	clear.
U.S. F. C. S. S. Fish Hawk, Wood's Holl, Mass†	30.32	770.1	71	21.7	80	sse.			2		3		calm	o	o			clear.
Bk. Vincenzo Accame, N. 38° 17′, W. 37° 12′†	30.59	777.0	82.4	28.		wsw.			6		0							clear.
Schr. Viola Reppard, N. 34° 10′, W. 76° 12′†	30.04	763.0	84	28.9		wnw.			4		1		wnw.	o	o	chop	sw.	
Bg. Wauburn, Azua, San Domingo, W. I	30.10	764.5				nnw.			3		2		nne.			mod	sse.	¼ covered
Bk. Warden Law, Sunderland, Eng*	30.01	762.2				nw.			2		10		n.	o	o			fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 6, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Clouds. Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.00	762.1	82.6	28.1	79	w.			4		3			0	0	pretty fair	Bouvier.
Algiers			30.00	761.9	77.7	25.4	67	ne.			2		0			0	0	clear	Thève.
La Calle			29.97	761.1	85.3	29.6	61	n.			2		1			0	0	very fair	Fonfrède.
Tunis			29.94	760.5															Jacques.
Saida			30.05	763.2															Perès.
Tebessa			30.04	762.9	75.6	24.2	33	s.			0		0			0	0	clear	Rigaud.
Geriville					91.8	33.2	11	w.			3		1			0	0	very fair	Lonchamp.
Laghouat			30.08	763.9	97.2	36.2	30	n.			2		0			0	0	clear	Abraham.
Biskra			30.07	763.7	100.4	38.0	22	nw.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.75	755.6	29.84	757.9	48.7	9.3	88	wnw.	2	0.9			10			0.27	6.9	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.35	745.5	29.88	758.9	71.6	22.0	41	se.			1		2			0	0		Prof. Ivan Stozir.
Cracow, I. R. Observatory	29.00	736.6	29.75	755.7	59.0	15.0	69	w.	16.1	7.2			5			0.457	11.6		Dr. Wierzbiski.
Eperies	28.91	734.4	29.78	750.4	57.9	14.4	82	nw.			1		9 ks		se.	0.181	4.6		Julius Mikolik.
Gratz	28.07	728.1	29.87	758.8	68.9	20.5	77	nw.			4		7			0	0		Andreas Rospini.
Hermannstadt	28.45	722.5	29.84	757.9	64.8	18.2	55	nw.			5		5			0.024	0.6	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.62	727.0	29.95	760.8	50.3	13.5	89	w.			1		10			0.232	5.9	gloomy	The Staff.
Lemberg	28.71	729.2	29.68	753.8	56.7	13.7	79	nw.			4		7			0.433	11.0		Dr. T. Stanecki.
Pola	29.76	755.9	29.87	758.6	80.2	26.8	44	ese.			2		4			0	0		I. R. Hydrographic Office.
Szathmar	29.30	744.2	29.75	755.6	65.5	18.6	54	w			5		8			0	0		Joseph Midlinszky, S. J.
Szegedin	29.03	752.7	29.91	759.6	65.1	18.4	52	nw.			1		6			0	0		Karl Stancel.
Trieste																			Royal Academy.
Vienna	29.19	741.5	29.89	759.2	65.8	18.8	45	w.			3		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.93	760.2	30.03	762.7	61.7	16.5	75	s.	10	4.5			9			0	0	overcast	W. Boswell
Armagh, Observatory	29.99	761.7	30.22	767.6	64.5	18.1	73	w.	6	2.7									S. Gall.
Bidston, Liverpool Obs'y			30.19	766.8	58.0	14.4	87	w.	26	11.6			10					overcast	John Hartnup.
Bolton, Sharples	29.64	752.8	30.17	766.3	62.6	17.0	80	wsw.	12	5.4			7					d. clouds	Thomas Mackereth.
Bradford, Yorkshire																0	0		J. McLandsborough.
Bradford, Barbadoes	30.03	762.7	30.00	763.5	84.0	28.9	71	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			30.11	764.8	75.0	23.9	61	nw.			1.0		1					blue sky	John McLaren.
Chatham, School M. E.	30.02	762.5	30.14	765.5	72.1	22.3	60	w.			1		2					misty	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	30.05	763.3	30.27	768.8	67.7	19.8	72	nnw.			2		2					d clouds	The Staff.
Fort Napier, Natal	27.85	707.4	30.07	763.8	79.8	26.6	17	e.			1		0					blue sky	Corpl. F. Milner, A. H. C.
Free Town, Sierra Leone	29.68	753.9	29.91	759.7	86.0	30.0	75	nw.			1		5					drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	29.93	760.2	29.99	761.7	79.5	26.4	76	wnw.			5		0						Corpl. F. Norris, A. H. C
Glasgow, Observatory	29.81	757.2	30.02	762.5	61.1	16.2	80	wnw.			5		5 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.98	761.5	30.14	765.5	72.1	22.3	63	nw.			1		0					misty	The Staff.
Guernsey	29.95	760.7	30.24	768.1	67	19.4	71	nw.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.12	765.0	30.10	766.1	69.8	21.0	63	nw.	11	4.9			0					blue sky	The Staff.
Leicester, Museum	29.92	760.0	30.17	766.3	64.0	17.8	95	nw.			1		0					blue sky	J. C. Smith.
Malta, Mediterranean	29.83	757.7	29.90	759.4	77.8	25.4	75	w.			3		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.19	766.8	30.23	767.8	84.0	28.9	65	ne.			1	4 c	0					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.63	752.6	30.13	765.3	75.0	23.9	55	nw.			4		3					d clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.94	760.5	30.17	766.3	72.2	22.3	65	w.			2		0					blue sky	The Staff.
Plymouth	30.17	766.3	30.24	768.1	72.5	22.5	69	n.			1		0					blue sky	John Merrifield.
Sandwick Manse, Orkneys			29.99	761.7	57.5	14.2	93						10					showery	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.80	756.9	29.80	758.4	81.0	27.2	46	nne.			1		1					blue sky	W. H. Lyne.
Sheffield	29.87	758.7	30.14	765.5	73.8	23.2	57	nw.			1		0			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.08	764.0	30.12	765.0	67.3	19.6	67	sw.			3		5			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.16	766.1	61.9	16.6	77	wnw.	23	10.3			10					overcast	I. New.
Stratfield Turgiss					76.2	24.6	56	nw.			3		0					blue sky	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.27	766.8	30.28	769.1	73	22.8	67	nw.			4		6					d. clouds	W. Newcombe.
Valencia, Observatory	30.28	769.1	30.31	769.9	61.5	16.4	85	nnw.	11	4.9			7					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.91	759.7	29.95	760.7	67	19.4	90	calm	0	0		0	2 s		nw.	0.320	8.1	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.96	761.0	30.02	762.5	63	17.2	93	ne.	2	0.9		5 ck	fg.	ne.		0.01	0.3	fair	G. A. Blair.
Father Point, Quebec*	30.01	762.2	30.03	762.7	58	14.4	93	calm	0	0		0	2 s		calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.20	743.2	30.05	763.3	67	19.4	90	calm	0	0		0	0			0.01	0.3	hazy	James Stewart.
Halifax, N. S*	29.80	758.4	29.98	761.5	71	21.7	84	n.	2	0.9		2 ck	0			0.045	1.2	fair	A. Allison.
Kingston, Ontario*	29.75	755.6	30.07	763.8	74	23.3	70	calm	0	0			10 k		w.	inap.	inap.	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.83	757.7	30.03	762.7	78	25.6	62	w.	9	4.0		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.41	747.0	30.07	763.8	71	21.7	84	e.	2	0.9		2 cs	0	w.		0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.41	747.0	30.08	764.0	69	20.6	95	nw.	2	0.9		10 k	0	w.		inap.	inap.	cloudy	H. Morgan.
Port Stanley, Ontario	29.45	748.0	30.07	763.8	71	21.7	97	calm	0	0			8 k		sw.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.74	755.4	30.05	763.3	69	20.6	93	n.			1	0	hz.			0	0	hazy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.62	752.3	30.07	763.8	66	18.9	81	w.	1	0.4		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.36	745.7	30.05	763.3	67	19.4	90	se.	6	2.7		2 cs	0			inap.	inap.	clear	
Sydney, C. B*	29.93	760.2	29.98	761.5	67	19.4	89	calm	0	0		0	0			0	0	clear	
St. Andrews, N. B	29.93	760.2	29.99	761.7	62	16.7	90	ne.	2	0.9			10 n			0	0	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.72	754.9	30.08	764.0	72	22.2	68	calm	0	0		3 cs	0	w.		0	0	fair	Magnetic Observatory.
Yarmouth, N. S*	29.90	761.0	30.03	762.7	60	15.6	100	w.	8	3.6			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N.
Sub-series.																			
Mount Forest	28.70	729.0	30.11	764.8	68.0	20.0	79	w.			2	10 nks	0	wnw.		0.050	1.3	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.967	761.07	30.217	767.37	53	11.7	100	ne.					10			0.16	4.1		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.14	765.5	30.16	766.1	64	17.8	94	wsw.	10.0	4.5		0	1 s			0	0	light haze	C. Hansen.
Cape Town, C. G. H. Obs'y	30.16	766.1	30.19	766.8	60.7	15.9	74	nw.	6	2.7		6	6			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.76	755.9	29.78	756.5	72.7	22.6	88	calm	0	0			0			0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.56	750.7	29.60	751.9	61.2	16.2	84	n.	16	7			8						Oversergent Fischer.
Fanöe	29.77	756.2	29.79	756.7	59.7	15.4	77	nw.			6		9						Overloerer Lauridsen.
Godthaab, Greenland	29.79	756.6	29.83	757.7	46.0	7.8	83	nne.			2		10			0.016	0.4		S. Kleinschmidt.
Ivigtut	29.78	756.3	29.80	756.8	47.8	8.8		calm			0		8						
Stykkisholm, Iceland	29.56	750.9	29.61	752.0	49.8	9.9	94	calm			0		10					raining	A. O. Thorlacius.
Thorshavn	29.78	756.4	29.82	757.3	55.6	13.1	94	w.	13	6			10						Overloerer Bergh.
Vestervig	29.68	753.9	29.77	756.2	60.1	15.6	80	nnw.			4		1						Loerarer Oesterbol.
French.																			
Agen, Normal School	29.45	748.1	30.08	764.0	76.6	24.8	40	nne.			1	2c	0			0	0	slightly cl'dy	M. Labroue, Director.
Alençon, Normal School	29.71	754.7	30.26	768.7	67.3	19.6	71	ne.			1		kn	nw.	nw.	0	0		M. Nicot, Director.
Arras, Engineer School	29.90	759.5	30.15	765.8	73.6	23.1	68	nw.			2	ck	0			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.82	757.5	29.90	759.5	77.0	25	49	n.			8		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.60	751.8	30.14	765.6	68.0	20.0	59	ene.			1		9			0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.90	759.4	30.16	766.0	71.6	22	51	nw.			2		5		nw.	0	0	cloudy	M. Frère Eugène Marié.
Besançon, Normal School	29.21	741.8	30.07	763.8	62.4	16.9	82	n.			1		10 n		n.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.84	757.9	30.09	764.3	76.6	24.8	37	ne.			2		2		ne.	0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.63	752.5	30.17	766.2	72.5	22.5	50	ne.							ne.	0	0		M. Malet, Director.
Brest, Naval Observatory	30.02	762.5	30.27	768.8	72.0	22 2	64	ne.			2		3		ne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.15	765.7	30.22	767.7	49.3	9.6	86	wnw.			2		0			0	0	clear	M. Berson, Director.
Châlons-sur-Marne, N.Sch	29.77	756.2	30.00	762.1	69.4	20.8	59	nnw.			3		5	w.	wnw.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.60	751.7	30.10	764.5	63.7	17.6	76	n.			1		10			0.08	2.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.79	731.2	30.11	764.9	66.2	19.0	61	n.			2		8		n.	0	0	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.30	744.3	30.17	766.3	66.6	19.2	68	ene.			2		9		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School.	28.16	715.2	30.12	765.1	65.5	18.6	82	nw.			3		kn	nw.	nw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.44	697.0	29.88	758.9	74.5	23.6	29	n.			3	0	4 k; kn		n.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.80	731.6	29.86	758.4	84.6	29.2	24	nw.			2		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.21	742.0	29.96	760.9	72.3	22.4	49	ne.			2		2 k	n.	ne.	0	0	slightly cl'dy	M. Ablard, Director.
Lamballe, Normal School.					74.3	23.5	58	nw.			2	0	2 k			0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.47	748.5	30.02	762.4	70.1	24.5	48	ne.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.17	766.4	30.28	769.0	73.8	23.2	69	ne.			1		8		ne.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.07	738.3	30.11	764.7	66.7	19.3	61	n.			2	0	5 n		n.	0	0	½ covered	M. André, Director.
Mans, Normal School	29.91	759.7	30.21	767.3	70.7	21.5	62	n.			1		2		n.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.60	751.9	29.86	758.5	81.7	27.6	34	wnw.			2		0			0	0		M. Stephan, Director.
Montlouis	24.89	632.3	29.74	755.3	69.4	20.8	37	n.	5.6	2.5						0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.80	756.8	29.92	759.9	84.2	29	52	n.			4		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.31	744.5	30.08	764.0	65.3	18.5	71	w.			2	0	5 kn		w.	0.079	2.0	cloudy	M. Hasse, Director
Nantes, Observatory	30.08	764.1	30.24	768.2	73.6	23.1	49	nne.			1-2	0	5 k		e.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.82	757.3	29.92	759.9	84.7	29.3	24	nw.	24.2	10.8			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.40	543.5			55.4	13.0		sw.			1		1		sw.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.09	738.9	30.12	765.1	73.4	23	44	n.			4		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.30	642.6			46.6	8.1	100	ne.			4		10			0.008	0.2	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	30.15	765.7	30.18	766.5	77.4	25.2	100	ne.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.98	761.4	30.18	766.6	75.2	24	54	nne.			1		5		s.	0	0		M. Mouillot, Director.
Rodez, Normal School	27.97	710.5	30.03	762.8	74.3	23.5	37	ne.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.13	765.4	30.18	766.6	73.8	23.2	63	nw.			1		5	w.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.99	761.8	30.16	766.0	72.9	22.7	54	nw.			2		5		n.	0	0		M. Renou, Director.
Toulouse, Observatory	29.39	746.5	30.11	764.9	77.5	25.3	36	nnw.			2		0			0	0	clear	M. Baillaud, Director.
Tours	30.00	762.0	30.18	766.5	77.0	25.0	43	ne.			2		1 k	ne.	ne.	0	0		M. de Tastes.
Versailles, Observatory	29.67	753.7	30.17	766.2	72.0	22.2	50	n.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.89	759.1	30.18	766.5	73.0	22.8	50	nnw.			1		7		nw.	0	0		M. Marié Davy, Director
German.																			
Ansbach	28.54	724.8	29.97	761.2	57.2	14.0	87	nw.			4		7	nw.		0.276	7.0		Prof. Jnedt.
Bamberg	29.13	740.1	29.99	761.8	60.8	16.0	73	nw.			2	0	9 n		w.	0.181	4.6		Prof. Dr. Hoh.
Berlin	29.62	752.3	29.79	756.7	63.3	17.4	56	sw.			3		9			0.043	1.1		Prof. Dr. Arndt.
Breslau	29.30	744.2	29.83	757.6	61.5	16.4	58	w.			4		6			0.287	7.3		Royal University Obs'y.
Carlsruhe	29.58	751.4	30.02	762.4	62.2	16.8	87	wnw.			1		9		nw.	0.157	4.0	raining	Albert Senz.
Cassel	29.22	742.2	29.93	760.3	61.5	16.4	69	w.			4		8	w.		0.126	3.2		Dr. H. Möhl.
Frankfort-on-the-Main	29.61	752.1	29.97	761.1	68.5	20.3	53	nnw.			2		7			0.012	0.3		Physical Society.
Friedrichshafen	28.65	727.6	30.05	763.3	65.1	18.4	81	wnw.			2		8	w.		0.016	0.4	sprinkling	Wilhelm, Chief Tel.
Hamburg	29.74	755.5	29.84	757.9	58.5	14.7	73	nw.			5		10			0.024	0.6	light rain	E. Preller.
Kiel	29.74	755.5	29.76	755.9	61.2	16.2	72	wnw.			6		0			0.004	0.1		Prof. Dr. G. Karsten.
Leipsic, Astron'l Obs'y	29.47	748.6	29.89	759.2	60.4	15.8	66	w			3		9	wnw		0.154	3.9		H. Leppig, Asst.
Magdeburg	29.66	753.3	29.84	758.0	60.8	16.0	77	wsw.			3		10 ks		nw.	0.173	4.4		Dr. Assmann.
Memel	29.68	753.9	29.73	755.1	59.5	15.3	66	nnw.			1	7 cs	0						Issermann.
Munich	28.20	716.2	30.00	763.5	60.4	15.8	74	nw.			4		9	nw.		0.020	0.5		Dr. C. Lang.
Neufahrwasser	29.67	753.7	29.69	754.1	61.5	16.4	79	ne.			2		10			0.165	4.2		A. Lottes.
Neustadt, Palatinate	29.46	748.2	29.98	761.5	65.3	18.5	72	w.			1		6	w.		0.138	3.5		Dickneither.
Stuttgart	29.08	738.7	29.97	761.3	59.3	13.5	95	w.			3		10			0.154	3.9		Prof. Dr. Schoder.
Wustrow	29.71	754.7	29.74	755.4	59.5	15.3	87	wnw.			5		10 s			0.063	1.6		Profs. Brandes & Reimer
Greek.																			
Athens	29.48	748.8	29.85	758.1	85.1	29.5		s.			3.5	c	4 k			0	0		Schmidt & Wourlisch.
Indian.																			
Kurrachee	29.41	747.0	29.46	748.3	82.8	28.2	83	wsw.	30.0	13.4			9	w.		0	0	gloomy	
Deesa	28.97	735.8	29.43	747.0	82.7	28.2	67	sw.	18.0	8.0			6	wsw.		0	0	d. clouds	
Bombay	29.63	752.6	29.67	753.6	80.0	26.7	82	wsw.	20.0	8.9			10	wsw.	sw.	0.42	10.7	overcast	
Poona, Yarrowda	27.81	706.4	29.66	753.4	76.8	24.9	70	wsw.	36.0	16.1			9	w.	w.	0.04	1.0	d. clouds	
Trichinopoly	29.48	748.9	29.76	755.9	88.8	31.6	42	nw.	2.0	0.9			10			0	0	overcast	
Bellary	28.23	717.1	29.68	753.9	84.6	29.2	56	w	18.5	8.3			10			0	0	gloomy	
Belgaum	27.21	691.2	29.78	756.4	67.6	19.8	94	sw.	10.0	4.5			10		sw.	0.63	16.0	showery	
Lahore	28.51	724.0	29.22	742.1	92.1	33.4	59	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.41	721.7	29.29	743.9	84.0	28.9	82	calm	2.0	0.9			10			0	0	gloomy	
Agra	28.81	731.7	29.36	745.7	83.7	28.7	70	w.	6.0	2.7			5		w.	0	0	d. clouds	
Nagpur	28.50	723.8	29.53	750.1	77.7	25.4	88	ssw.	4.0	1.8			9		sw.	0.03	0.8	gloomy	
Jubbulpore	28.16	715.2	29.59	749.2	80.8	27.1	69	nw.	6.2	2.8			10		w.	0	0	overcast	
Lucknow	29.01	736.9	29.38	746.3	84.2	29.0	77	calm	6.0	2.7			10	ene.		0.02	0.5	overcast	
Allahabad	29.06	738.2	29.37	745.9	85.2	29.6	70	sw.	6.0	2.7			8		w.	0	0	d. clouds	
Patna	29.21	741.8	29.39	746.5	85.6	29.8	78	wnw.	5.1	2.3			10	wnw.	wnw.	0.04	16.3	overcast	
Hazaribagh	27.43	696.6	29.41	746.9	78.6	25.9	78	w.	13.8	6.2			10		w.	0.14	3.6	showery	
Cuttack	29.40	746.9	29.49	748.9	82.2	27.9	72	wsw.	4.0	1.8			6			0.22	5.6	d. clouds	
Calcutta, Alipore	29.38	746.3	29.40	746.8	80.5	26.9	93	wnw.	4.0	1.8			10			0.09	2.3	drizzling	
Dhubri	29.22	742.3	29.34	745.2	79.5	26.4	94	e.	10.4	4.6			10			0.91	23.1	raining	
Chittagong	29.30	744.3	29.39	746.5	80.2	26.8	90	se.	7.3	3.3			10			0.03	0.8	drizzling	
Sibsagar	29.08	738.7	29.41	747.0	83.0	28.3	83	ne.	1.0	0.4			10	w.	w.	0.30	7.6	d. clouds	
Jeypore	27.98	710.7	29.40	746.6	83.0	28.3	60	wsw.	9.1	4.1			0		wsw.	0	0	d. clouds	
Zanzibar, Africa	30.08	764.0			74.9	23.8	79	ssw.	10.8	4.8			9			0.20	5.1	gloomy	
Italian.																			
Udine	29.53	750.0	29.92	760.0	76.3	24.6	32	e.	1.8	0.8			5			0	0		Prof. Giovanni Clodig.
Milan	29.38	746.3	29.87	758.8	80.4	26.9	52	sw.	5.6	2.5			2			0	0		Prof. Schiaparelli.
Padua	29.78	756.4	29.89	759.1	76.8	24.9	36	ene.	9.4	4.2			1			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.02	737.0	29.88	759.0	79.0	26.1	41	ne.	3.1	1.4			4			0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Genoa	29.66	753.4	29.85	758.1	80.6	27.0	35	n.	4.9	2.2			4	n.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.03	711.9	29.85	758.3	75.9	24.4	45	wnw.			4		4			0	0		Prof. D. C. Bruno
Pesaro	29.82	757.4	29.87	758.6	76.6	24.8	61	ese.	10.5	4.7			1			0	0		Prof. Luigi Guidi
Florence	29.55	750.6	29.80	756.8	87.8	31.0	33	ne.			2		5			0.276	7.0		Prof. Costantino Pitt'er
Leghorn	29.67	753.5	29.75	755.6	79.3	26.3	68	wsw.	3.1	1.4			0			0	0		Prof. P. Monte.
Rome	29.63	752.6	29.80	756.8	86.5	30.3	47	sw.	8.7	3.9			1			0	0		Prof. P. Tachini.
Lecce	29.55	750.6	29.79	756.7	82.6	28.1	51	sw.	15.0	6.7			8	sw.		0.004	0.1		Prof. C. de Giorgi
Cosenza	28.90	735.5	29.81	757.1	85.5	29.7	73	w.	2.5	1.1			2	sw.		0	0		Prof. D. Conti.
Cagliari	29.63	752.5	29.81	757.2	82.8	28.2	38	nw.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.60	751.9	29.84	758.0	79.5	26.4	61	e.	7.4	3.3			1			0	0		Prof. G. Ciacciatore.
Syracuse	29.76	755.8	29.80	756.9	81.1	27.3	65	nne.	13.0	6.1			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.33	744.9	29.83	757.6	81.0	27.2	61	se.	0	0			1			0	0		Prof. T. Brioschi.
Stelvio	22.24	564.8			44.8	7.1	41	e.			2		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.30	566.6			49.6	9.8	71	e.			2		7			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.81	757.2	29.84	757.9	79.8	26.6	69	nne.	0.3	0.1		0	1 s			0.010	0.2	fair	K. Ogawa.
Hakodate	29.83	757.7	29.84	757.9	77.8	25.4	71	calm	0	0			1			0	0	clear	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.71	754.6	29.88	758.9	77.2	25.1	94	s.	1.6	0.7			10 n			0.315	8.0	light rain	M. Fojima.
Nagasaki, I. M. Obs'y	29.57	751.0	29.76	755.9	78.4	25.8	76	s.	4.8	2.1		0	3 s		s.	2.570	65.3	clear	
Nemuro	30.08	764.0	30.14	765.5	70.0	21.1	100	se.	6.0	2.7		10	0			0	0	foggy	
Niigata	29.81	757.2	29.84	757.9	80.8	27.1	66	se.	9.1	4.1			10ck;s		sse.	0	0	covered	M. Morita.
Nobiru	29.95	760.7	29.97	761.1	74.8	23.8	85	s.	31.6	14.1			10 s			0.190	4.8		H. Midzushina.
Osaka	29.81	757.2	29.82	757.4	77.5	25.3	91	ne.					10ks;s			0.342	8.7	cloudy	
Sapporo					72.0	22.2	88	se.	18.0	8.0			10			0.020	0.5	covered	
Tokei Obs'y, Yeddo	29.93	760.2	30.00	762.1	77.2	25.1	94	s.	17.6	7.9			10 n		sse.	0.940	23.9	light rain	The Staff.
Wakayama	29.81	757.2	29.86	758.4	79.3	26.3	84	ssw.	9.7	4.3			10		s.	0.695	17.7	cloudy	Y. Kuwamuea
MAURITIUS.																			
Mauritius Observatory	30.00	762.0	30.19	766.8	72.2	22.3	64	se.	15.0	6.7									Oliver & Fig n.
MEXICAN.																			
Guanajuato	23.73	602.8	29.95	760.8	60.8	16.0	92	calm	0	0			10 km			0.292	7.4	very cloudy	Prof. Vicente Fernandez.
Leon.†	24.40	619.7	30.02	762.5	60.8	16.0	90	e.			1	10 c	0	ne.		0.142	3.6	covered	Prof. M. Leal.
Mazatlan	29.71	754.7	29.97	761.2	78.5	25.8	93	ne.	0.9	0.4		5 cs	3 ks	ene.		inap.	inap.	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	588.1	30.18	766.5	54.5	12.5	89	calm			0	5 c	3 k			0	0	cloudy	The Staff.
Morelia	24.17	614.0	30.22	767.5	59.0	15.0	45	se.			2	1	1	e.	e.	0.126	3.2	clear	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascallentes	23.99	609.3	29.91	759.8	63.1	17.3	88	calm			0	c	9 ks		ne.	0.010	0.3	very cloudy	M. Y. de Leon, M. E
Puebla, Catholic Institute	23.43	595.1	30.18	766.5	55.1	13.0	95	calm			0		10			0.508	12.9	covered	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	22.54	572.4	30.03?	763.4?	58.0?	14.0?	71	ne.	8.4	3.7		1 c	1 c		w.	0	0	clear	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.12	765.2	30.13	765.2	67.5	19.7		nnw.			3					0.094	2.4		
Groningen	29.91	759.8	29.97	761.2	58.1	14.5		nnw.			2					0.118	3.0		
Helder	30.03	762.7	30.03	762.7	59.5	15.3		nnw.			4					0	0		
Hellevoetsluis	30.09	764.3	30.09	764.3	65.3	18.5	69	nw.			3					0	0		
Utrecht	30.02	762.4	30.06	763.6	61.7	16.5	84	nw.			4		8			0.028	0.7	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.76	756.0	29.83	757.6	60.4	15.8	63	nw.	7	3			4			0	0		
Brono	29.76	756.3	29.82	757.3	60.1	15.6	86	nnw.	9	4			10			0	0		
Christiania	29.59	751.6	29.73	755.2	69.1	20.6	57	n.	9	4			6			0.031	0.8		
Gjæsvær	29.87	758.8	29.90	759.4	50.2	10.1		n.			2		10					foggy	
Lodingen	29.78	756.3	29.82	757.5	56.8	13.8	91	nne.			4		10			0.283	7.2	rain and fog.	
PORTUGUESE.																			
Angra, Azores					75.2	24.0	72	se.	1.8	0.8			1			0	0		Dr. J. A. Sampaio
Campo Major	28.97	735.7	29.90	759.5	89.2	31.8	29	ssw.	1.3	0.6			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.97	761.2	30.05	763.3	73.9	23.3	60	sw.	3.1	1.4			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.64	752.9	30.00	761.9	69.8	21.0	65	wsw.	16.8	7.5			0			0	0		The Staff.
Ponta Delgada, Azores	30.22	767.5	30.29	769.3	75.6	24.2	66	ne.	5.6	2.5			3	wnw.		0	0		
Saint Paul de Lonado	29.87	758.8	30.08	764.0	69.8	21.0	81	w.			1		2	sse.		0	0		
Serra da Estrella	25.38	644.6	29.88	759.0	72.7	22.6	36	e.	6.9	3.1			0			0	0		
RUSSIAN.																			
Akmolinski	28.56	725.3	29.56	750.8	80.6	27.0	36	n.	9	4		3 ck	0			0	0		Major K. Lasarew.
Archangel	29.77	756.2	29.79	756.7	80.8	27.1	50	nne.	4	2		0	0 ks			0	0		Capt. Sseliwerstow.
Astrakhan	29.62	752.4	29.54	750.3	87.6	30.9	51	sse.	4	2		0	8 ks			blank	blank		Capt. Wisganow.
Barnaul	29.10	739.0	29.57	751.1	69.1	20.6	77	calm	0	0			9			0.028	0.7		Meteorological Obs'y.
Dorpat	29.44	747.8	29.67	753.7	66.4	19.1	59	ene.	11	5			10 n			0.022	15.8		Observatory.
Ekaterinburg	28.71	729.2	29.65	753.0	59.7	15.4	89	w.	7	3			10			0.087	2.2		Meteorological Obs'y.
Irkutsk																			
Kasan	29.35	745.5	29.60	751.8	85.1	29.5	39	e.	7	3		5 c;cs	0			0	0		Observatory.
Kertch	29.04	752.9	29.66	753.4	71.8	22.1	69	w.	20	9		0	4 ks			0.583	14.8		Lagorio & Sastyrez.
Kieff	28.95	735.4	29.56	750.9	66.2	19.0	42	w.	11	5		ck	6 ks						Observatory.
Lugan	29.27	743.5	29.47	748.5	68.7	20.4	83	ssw.	13	6			10			0.173	4.4		Meteorological Obs'y.
Moscow	28.89	733.9	29.34	745.3	65.8	18.8	89	s.	7.8	3.5			10 s					raining	Meteorological Obs'y.
Nikolaiev	29.62	752.3	29.69	754.1	72.7	22.6	41	w.	13	6		0	4 kn			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.52	749.9	29.67	753.5	73.8	23.2	71	calm	0	0		0	2 k			0.035	0.9	thun'r st'rm	Physical Observatory.
St. Petersburg	29.60	751.9	29.62	752.3	61.5	16.4	91	n.	11	5			10 n			0.114	2.9		Central Physical Obs'y.
Semipalatinsk	28.93	734.7	29.53	750.0	85.0	29.8	31	n.	11	5			7			0	0		Major Lasarew
Tashkend, Laboratory	27.92	709.2	29.36	745.7	89.6	32.0	51	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.22	716.7	29.53	750.0	89.2	31.8	42	nw.	16	7		0	0 n			0.024	0.6	light rain	Physical Observatory.
Vladivostock	29.49	749.0	29.56	750.7	70.5	21.4	87	w.	7	3		0	8 n						
Warsaw	29.24	742.8	29.66	753.3	59.2	15.1	72	wnw.	9	4			10ksn					light rain	Astronomical Obs'y.
Wilna	29.25	742.9	29.65	753.2	64.2	17.9	58	calm	0	0			8			0	0		Berg, Assistant.
Yeniseisk	29.71	754.5	29.98	761.5	72.3	22.4	62	s.	2	1			0			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt.			30.08	764.0	58	14.4	93	w.			4	5	5	w.		0.1	3.	cloudy	J. Youngclause.
North Unst			29.90	759.4				s.			4		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.84	757.9	29.94	760.5	80.1	26.7	70	se.	3.8	1.7		0	1			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.11	764.9	30.17	766.4	72.0	22.2	67	ne.	1.8	0.8		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.09	688.2	29.96	760.9	71.8	22.1	54	ne.	14.8	6.6		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.76	795.0	29.83	757.6	89.8	32.1	33	sw.	4.9	2.2		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.76	755.9	29.87	758.8	87.8	31.0	66	se.	1.8	0.8		0	0			0	0	clear	Olayo Diaz, Director
Oviedo	29.29	744.0	30.15	765.9	68.0	20.0	59	nw.	4.3	1.9		0	2 k			0	0	fair	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.03	737.4	29.88	758.9	83.3	28.5	40	e.	3.8	1.7		0	0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.08	764.1	30.15	765.8	80.2	26.8	84	e.	5.4	2.4		2 c;ck	k	se.		0	0	clear	Benito Vines, S. J.
Manila, Philippine Islands	29.78	756.4	29.84	757.9	82.2	27.9	82	sw.	35.9	16.0		1 c	8 ck		sw.	0.098	2.5	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.92	759.9	30.01	762.3	75.6	24.2	63	w.	9.8	4.4		0	2		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.02	762.5	30.11	764.8	79.9	26.6	82					0	2 k		e.	0	0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.62	752.3	29.75	755.6	80.9	27.2	86	n.	3.2	1.4			9 ks		wsw.	inap.	inap.	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.73	755.2	29.77	756.2	71.6	22.0	69	ne			2		8			0.047	1.2		
Umea	29.72	755.0	29.78	756.3	65.5	18.6	83	s.			4		9			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill	Weather.	Observers.
Swedish—Continued.																			
Hernosand	29.73	755.1	29.78	756.4	63.7	17.6	82	calm			0		10			0.252	6.4		
Stockholm	29.55	750.5	29.72	755.0	63.5	17.5	53	e.			2		5			0.020	0.5		
Wisby	29.58	751.4	29.64	752.9	65.5	18.6	51	ese.			6		5			0	0		
Sub-series.																			
Upsala	29.65	753.0	29.73	755 2	58.3	14.6	93	wsw.	3.6	1.6			9		n.	0.154	3.9		S. G. Fineman.
Swiss.																			
Geneva	28.65	727.6	30.02	762.6	70.5	21.4	47	ne.			5		0			0	0	clear	The Observatory
Turkish.																			
Constantinople			29.91	759.8	74.8	23.8	47	ne.	8	3.5			2		ne.	0	0		The Observatory.
Valona			30.01	762.3	80.1	26.7		w.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.76	755.9	87.8	31.0	54	w.			2	0	4 k		w.	0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	30.04	763.0	30.12	765.0	75.5	24.2	71	s.	2	0.9		4 c	2 ks			inap.	inap.	fair	J. O. Barnes.
Alpena, Michigan	29.44	747.8	30.08	764.0	64	17.8	93	nw.	3	1.3		0	0			0.19	4.8	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	28.09	637.3	29.81	757.2	60	15.6	90	e.	3	1.3		0	6 s			0 04	16.3	fair	W. C. Barnes.
Assinnaboine, Ft., Montana	27.25	692.1	30.00	762.0	65	18.3	78	w.	4	1.8		1 c	3 s	sw.	sw.	0	0	fair	B. O. Lenoir.
Atlanta, Georgia	29.04	737.6	30.19	766.8	75.0	23.9	85	w.	7	3.1		2 k	0	w.		0.18	4.6	clear	H. Hall.
Atlantic City, New Jersey	30.09	764.3	30.10	764.5	74.4	23.6	86	n.	2	0.9		8 k	0			0.05	1.3	cloudy	Jas. M. Watson.
Augusta, Georgia	30.01	762.2	30.20	767.1	76	24.4	85	calm	0	0		0	0			inap.	inap.	clear	John Healy.
Baltimore, Maryland	30.10	764.5	30.15	765.8	76	24.4	85	e.	1	0.4		5 cs	5 s;fg	nw.	e.	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.09	764.3	30.11	764.8	74.5	23.6	28	ne.	4	1.8			10 s			0	0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.53	724.6	30.07	763.8	65	18.3	90	w.	1	0.4		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.32	693.9	30.11	764.8	64	17.8	90	w.	6	2.7		0	8 s			0.05	1.3	cloudy	S. Wheaton.
Behring Island, Behring Sea	29.43	747.5	29.45	748.0	53.9	12.2		s.	22	9.8			10 ks			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.33	719.6	30.08	764.0	68	20.0	76	e	8	3.6		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.07	763.8	30.10	764.5	70.5	21.4	94	w.	4	1.8			fg.			0	0	dense fog	J. T. Elker.
Boise City, Idaho	27.11	688.6	29.86	758.4	55	12.8	69	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.96	761.0	30.11	764.8	71.6	22.0	82	w.	5	2.2		3 c;hz	0			0	0	clear	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	79.3	26.3	82	s.	3	1.3		3 c	3 ks	s.	s.	0.03	0.8	fair	M. McCarty.
Buffalo, New York	29.36	745.7	30.09	764.3	74.4	23.6	76	se.	3	1.3		3 ck	7 s	w.	e.	0	0	cloudy	Clarence Weaver.
Buford, Fort, Dakota	28.15	715.0	30.09	764 3	66	18.9	75	ne.	6	2.7		3 cs	0	calm		0	0	clear	A. H. Bell.
Burlington, Vermont	29.80	756.9	30.09	764.3	75.3	24.1	73	calm	0	0		0	0			0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.71	754.6	30.10	764.5	73.8	23.2	83	s.	4	1.8		1 c	0	s.		0.08	2.0	clear	W. H. Ray.
Campo, California	27.41	696.2	29.91	759.7	47.6	8.7	80	s.	1	0.4		0	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	30.09	764.3	30.11	764.8	73	25.6	88	n.	6	2.7			10 ks		n.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.08	764.0	30.11	764.8	75.0	23.9	90	ne.	5	2.2			10 s		e.	0	0	cloudy	W. E. Smith.
Cape Mendocino	29.39	746 5						n.	20	8.9			10 ks		n.	0	0	cloudy	J. R. Williams.
Cedar Keys, Florida	30.18	766.6	30.20	767.1	79	26.1	88	n.	2	0.9		0	hz.			inap.	inap.	clear	F. W. Mixer.
Champaign, Illinois	29.26	743.2	30.05	763.3	79.0	21.1	81	s.	4	1.8		0	hz.			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.12	765.0	30.17	766.3	80	26.7	74	w.	8	3.6		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.27	743.4	30.10	764.5	79.0	26.1	74	sw.	2	0.9		0	hz.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.36	745 7	30.17	766.3	72.0	22.2	97	w.	2	0.9		0	4 k;fg		sw.	1.06	26.9	fair	B. L. Goulding.
Cheyenne, Wyoming	24.22	615.2	29.92	760.0	50.2	10.1	68	w.	2	0.9		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.34	745.2	30.04	763.0	67.3	19.6	100	ne.	2	0.9			fg.			inap.	inap.	dense fog	J. Mitchell.
Chincoteague, Virginia	30.08	764.0	30.10	764 5	70	24.4	90	ne.	3	1.3		0	6 k		n.	inap.	inap.	fair	C. F. Dickens.
Cincinnati, Ohio	29.46	748.3	30.10	764.5	75.8	24.3	90	se.	3	1.3		8ck;cs	0	sw.		0.21	5.3	cloudy	J. F. Harrold.
Cleveland, Ohio	29.39	746.5	30.11	764.8	71.9	22.2	88	se.	4	1.8			10 k		sw.	0.04	1.0	cloudy	J. B. Newlin.
Coleman City, Texas	28.27	718.0	30.01	762.2	68	20.0	93	sw.	2	0.9		3 cs	0	sw.		0.48	12.2	clear	L. Dorman.
Columbus, Ohio	29.25	742.9	30.08	764.0	72	22.2	84	sw.	2	0.9		4 ck	0	sw.		0.06	1.5	fair	D. Cuthbertson.
Concho, Texas	28.15	715.0	30.01	762.2	70	21.1	90	s.	4	1.8		0	8 s		s.	0	0	cloudy	W. W. McConihe.
Custer, Fort, Montana	26.90	683.2	29.96	761.0	70	21.1	71	n.	8	3.6		0	3 s		calm	0	0	clear	W. B. Lamar.
Davenport, Iowa	29.40	746.7	30.02	762.5	71	21.7	94	e.	4	1.8			10 n		calm	inap.	inap.	light rain	R. R. Martin.
Davis, Fort, Texas	25.24	641.1	29.89	759.2	70	21.1	57	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.28	718.3	29.99	761.7	48.8	9.3	80	se.	2	0.9		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.51	647.9	29.94	760.5	61	16.1	70	sw.	8	3.6		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					76	24.4	60	sw.	4	1.8		0	3 s			0.01	0.3	clear	D. J. Carr.
Delaware Breakwater, Del	30.10	764.5	30.12	765.0	73	22.8	100	ne	5	2.2		6 k	3 ks			0	0	cloudy	T. S. Townsend.
Denison, Texas	29.26	743.2	30.04	763.0	73.0	22.8	82	calm	0	0		0	6 s		sw.	0	0	fair	J. McGlone.
Denver, Colorado	24.88	631.9	29.90	759.4	63.6	17.6	59	calm	0	0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.16	740.7	30.04	763.0	67	19.4	90	ne.	4	1.8			10 s		ne.	0.02	0.5	cloudy	F. W. Conrad.
Detroit, Michigan	29.38	746.2	30.07	763.8	73.2	22.9	90	ne.	1	0.4			10 s			0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.49	698.2	29.97	761.2	63	17.2	90	calm	0	0		1 k	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.36	745.7	30.05	763.3	70	21.1	90	ne.	5	2.2			10 s			0.08	2.0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.35	745.5	30.07	763.8	67	19.4	68	calm	0	0		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.25	742.9	30.04	763.0	78.1	25.6	82	se.	5	2.2		0	2 s		s.	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.28	642.1	29.83	757.7	65	18.3	56	calm	0	0		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.93	760.2	30.00	762.0	69.0	20.6	76	sw.	1	0.4		3 k	hz.			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.28	692.9	29.92	760.0	66	18.9	78	se.	2	0.9			10 s		se.	0.06	1.5	cloudy	W. J. Cundall.
El Paso, Texas	26.29	667.8	29.89	759.2	71	21.7	59	ne.	1	0.4		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.39	746.5	30.10	764.5	75	23.9	85	calm	0	0		8 k	0			0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.42	747.3	30.06	763.5	67	19.4	90	n.	2	0.9			10 s		n.	0	0	cloudy	George Heathcote.
Fredericksburg, Texas	28.32	719.3	30.04	763.0	74	23.3	82	calm	0	0			10 s			inap.	inap.	cloudy	Frank Halwegler.
Galveston, Texas	30.01	762.2	30.06	763.5	79	26.1	91	s.	6	2.7			10 ks		se.	2.17	55.1	threatening	E. O'C. Macnerney.
Grand Haven, Michigan	29.40	746.7	30.05	763.3	68.0	20.0	93	ne.	6	2.7			10 s			0.01	0.3	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.30	642.6	29.87	758.7	71.9	22.2	73	se.	4	1.8			10 s			0.26	6.6	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.07	763.8	30.09	764.3	80	26.7	88	ne.	12	5.4		6 k	0	n.		0	0	fair	R. M. Crawford.
Helena, Montana	25.92	658.4	30.01	762.2	67	19.4	44	w.	3	1.3		6 ck	0	w.		inap.	inap.	fair	N. C. Smith.
Henrietta, Texas	29.08	738.6	30.08	764.0	76.0	24.4	82	calm	0	0		3 ck	0			inap.	inap.	clear	J. W. Byram.
Huron, Dakota	28.72	729.5	30.06	763.5	63.7	17.6	90	e.	1	0.4		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.30	744.2	30.06	763.5	76	24.4	76	s.	2	0.9		1 ck	hz.			0	0	clear	O. Schutze
Indianola, Texas	30.00	762.0	30.04	763.0	79.7	26.5	79	sw.	6	2.7		0	8 s;ks		s.	0.85	21.6	threatening	I. A. Reed.
Jacksboro, Texas	28.89	733.8	30.01	762.2	71	21.7	84	sw.	1	0.4		0	0			inap.	inap.	clear	J. P. Sherry.
Jacksonville, Florida	30.17	766.3	30.21	767.3	81	27.2	69	sw.	1	0.4		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.54	699.5	29.97	761.2	68	20.0	57	ne.	3	1.3		5 c	0			0	0	fair	A. Schneider.
Keokuk, Iowa	29.35	745.5	29.98	761.5	70.0	21.1	87	e	1	0.4		4 k	0			0.01	0.3	fair	F. Z. Gosewisch.
Key West, Florida	30.12	765.0	30.14	765.5	86.0	30.0	57	ne.	4	1.8		3 cs	0			0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.10	764.5	30.12	765.0	76	24.4	97	ne.	9	4.0		hz.	1 k		n.	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.16	740.7	30.18	766.6	70	21.1	97	sw.	3	1.3			9 s		sw.	0.08	2.0	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.30	744.2	30.05	763.3	68	20.0	90	nw.	2	0.9			10 s			0.57	14.5	cloudy	S. C. Emery
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.17	740.9	30.03	762.7	68	20.0	93	calm	0	0			10s;fg			0.10	2.5	cloudy	A. W. Browne.
Lewiston, Idaho	29.17	740.9	29.98	761.5	62.0	16.7	59	se.	2	0.9		0	c			0	0	clear	W. Bell.
Little Rock, Arkansas	29.76	755.9	30.07	763.8	72	22.2	97	sw.	3	1.3		0	0			0.28	7.1	clear	W. U. Simons.
Los Angeles, California	29.56	750.8	29.95	760.7	60.2	15.7	81	sw.	1	0.4			10 s			0	0	cloudy	Egbert van Dyke.
Louisville, Kentucky	29.52	749.8	30.07	763.8	74	23.3	90	se.	1	0.4		5 k	sk.			0.02	0.5	fair	H. C. Smyth.
Lynchburg, Virginia	29.43	747.5	30.10	764.5	75	23.9	90	se.	1	0.4			10 ks		se.	0.04	1.0	cloudy	Lewis Duane.
Macon, Fort, North Carolina	30.08	764.0	30.09	764.3	81	27.2	82	nw.	6	2.7		2 c	hz.			0.03	0.8	clear	F. P. Chaffee.
Madison, Wisconsin	29 07	738.4	30.05	763.3	68	20.0	93	e.	2	0.9			10 s		e.	0	0	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.74	658.8			72	22.2	48	ne.	6	2.7		3 cs	0			0.06	1.5	clear	H. W. Dodge.
McKavett, Fort, Texas	27.86	707.6	30.07	763.8	71	21.7	90	s.	4	1.8		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.38	746.2	30.08	764.0	70	21.1	71	calm	0	0		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.75	755.6	30.08	764.0	73	22.8	97	se.	4	1.8		0	4 s		se.	0.07	1.8	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.32	7 44.7	30.05	763.3	65	18.3	100	n.	6	2.7			fg.			0	0	dense fog	W. Line.

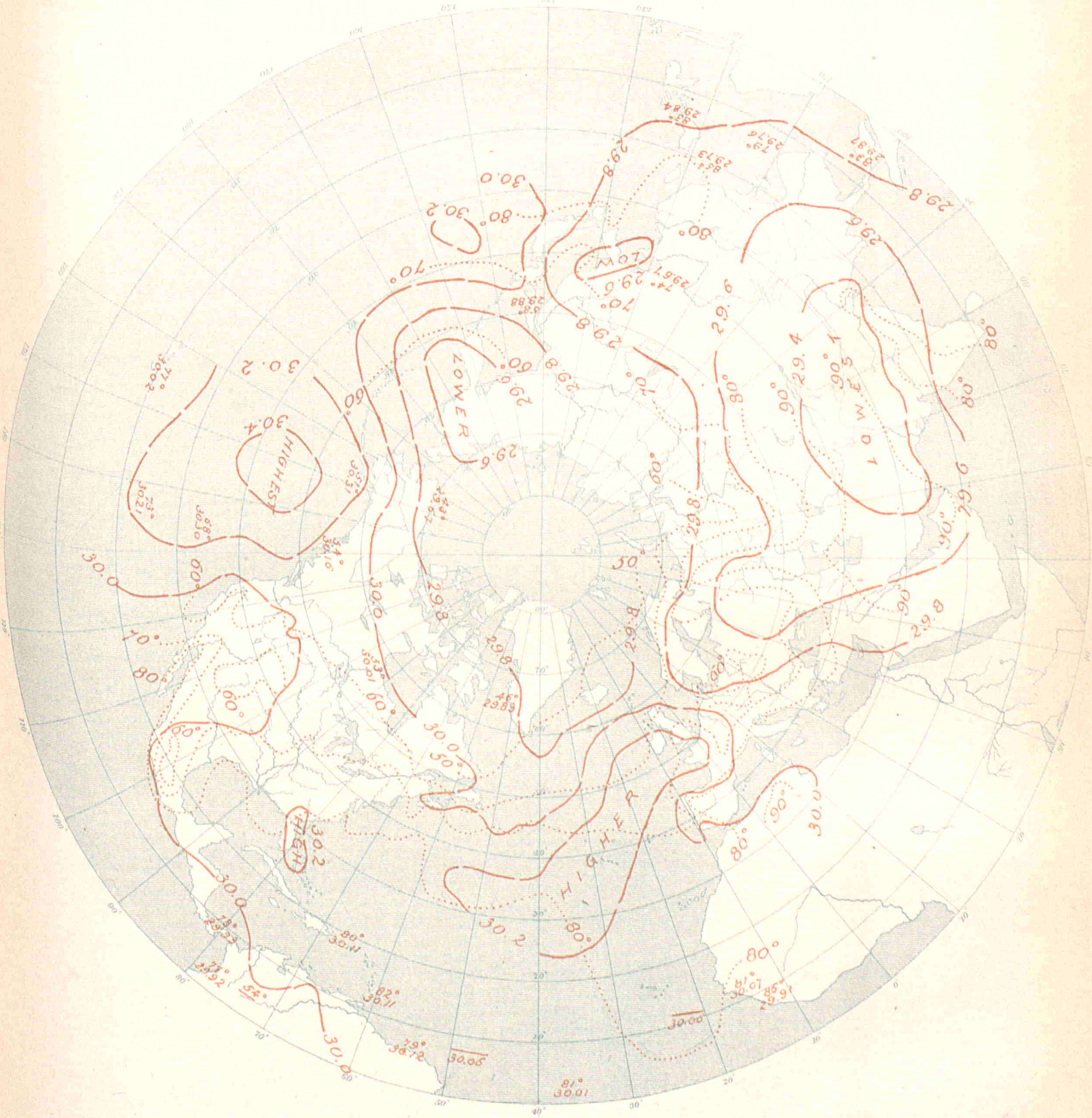
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.76	679.7	29.98	761.5	58	14.4	72	sw.	3	1.3		0	0			0.02	0.5	clear	J. H. Jones.
Mobile, Alabama	30.13	765.3	30.17	766.3	76.5	24.7	88	sw.	1	0.4			10 s		sw.	0.55	14.0	cloudy	C. A. Read.
Montgomery, Alabama	29.95	760.7	30.18	766.6	76	24.4	90	s.	4	1.8		7 k	0	w.		0.02	0.5	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.12	739.6	30.09	764.3	66	18.9	78	s.	2	0.9		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.14	740.1	30.14	765.5	71.0	21.7	94	s.	1	0.4			fg.			1.25	31.7	dense fog	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.10	612.1	30.18	766.6	56.0	13.3	77	n.	15	6.7		0	sk.		n.	0	0	clear	J. G. Lessley.
Nashville, Tennessee	29.53	750.0	30.09	764.3	75.0	23.9	88	ne.	2	0.9			10 ks		w.	inap.	inap.	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.99	761.7	30.10	764.5	71	21.7	90	calm	0	0		0	sk.			0	0	clear	J. H. Sherman.
New London, Connecticut	30.07	763.8	30.12	765.0	72	22.2	82	s.	1	0.4		4 c	0			0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.07	763.8	30.12	765.0	77.3	25.2	87	calm	0	0			10 s		sw.	0.20	5.1	cloudy	L. Dunne.
Newport, Rhode Island	30.05	763.3	30.10	764.5	70.9	21.6	90	s.	2	0.9		1 c	fg.			0	0	clear	W. McGilliviray.
New York, New York	29.96	761.0	30.13	765.3	70	21.1	100	s.	2	0.9			fg.			0	0	dense fog	J. B. Merrill.
Norfolk, Virginia	30.07	763.8	30.10	764.5	81	27.2	79	ne.	2	0.9		0	7 ks		ne.	0	0	fair	Wm. Davis.
North Platte, Nebraska	27.21	691.1	30.01	762.2	59.6	15.3	86	calm	0	0		0	fg.			0	0	light fog	E. F. Brady.
Olympia, Washington T'y	30.04	763.0	30.08	764.0	48.0	8.9	93	calm	0	0		4 ck	0			0	0	fair	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.65	753.1	29.67	753.6	43.0	6.1	100	se.	20	8.9			10 n			0.60	15.2	light rain	P. H. Ray.
Omaha, Nebraska	28.92	734.6	30.06	763.5	67.0	19.4	93	n.	4	1.8			fg.			0.12	3.0	dense fog	A. Pollak.
Oswego, New York	29.76	755.9	30.08	764.0	77.0	25.0	64	s.	4	1.8		2 c	0	w.		0	0	clear	S. W. Beall.
Palestine, Texas	29.56	750.8	30.10	764.5	72.0	22.2	87	s	2	0.9		10 cs	fg.			0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.14	765.5	30.16	766.1	77.2	25.1	94	calm	0	0		0	9 s		sw.	0.66	16.8	cloudy	M. McGauran.
Philadelphia, Pa	30.04	763.0	30.14	765.5	76	24.4	85	calm	0	0		10ck;cs	hz.	w.		0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.09	459.5	29.88	758.9	36	2.2	72	n.	7	3.1		0	hz.			0	0	clear	L. M. Dey.
Ploche, Nevada	24.10	612.1	29.80	756.9	66	18.9	42	s.	3	1.3		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.31	744.5	30.10	764.5	71.2	21.8	94	calm	0	0			10s;fg		w.	0.82	20.8	cloudy	J. B. Turton.
Poplar River, Montana	27.97	710.4						se.			1	0	2 s		se.	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.15	765.8	30.16	766.1	77.4	25.2	92	sw.	3	1.3			10 s		sw.	0.57	14.5	cloudy	M. Hermann.
Port Huron, Michigan	29.40	746.7	30.06	763.5	70.7	24.8	76	calm	0	0		8 cs	0			0	0	cloudy	W. O. Bailey.
Portland, Maine	30.05	763.3	30.10	764.5	75.0	23.9	71	w.	3	1.3		2 c	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.97	761.2	30.04	763.0	50.2	10.1	86	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Prescott, Arizona	24.86	631.4	29.84	757.9	69	20.6	51	s.	1	0.4		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass	30.04	763.0	30.07	763.8	74	23.3	84	sw.	5	2.2		3 cs	0	sw.		0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.16	766.1	30.17	766.3	80	26.7	80	e.	6	2.7		0	0			0	0	clear	W. J. Evans.
Red Bluff, California	29.47	748.5	29.83	757.7	66.1	18.9	54	calm	0	0		0	1 s			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.77	756.1	30.01	762.2	79	26.1	88	e.	1	0.4		0	1 s		calm	0.03	0.8	clear	H. S. Miles.
Rochester, New York	29.44	747.8	30.09	765.3	74	23.3	84	w.	3	1.3		7 ck	hz.	w.		0	0	fair	E. W. McGann.
Roseburg, Oregon	29.48	748.8	30.02	762.5	51.6	10.9	83	e.	1	0.4		0	9 s			0	0	cloudy	J. J. Nanry.
Sacramento, California	29.76	755.9	29.83	757.7	60.6	15.9	72	s.	8	3.6		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.46	748.3	30.04	763.0	72.0	22.2	100	s.	4	1.8		0	hz.			0.22	5.6	clear	J. H. Webber.
St. Paul, Minnesota	29.22	742.2	30.06	763.5	69.0	20.6	90	ne.	1	0.4		5 k	0	e.		0	0	fair	P. F. Lyons
St. Vincent, Minnesota	29.23	742.4	30.08	764.0	64	17.8	90	calm	0	0		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.63	651.0	29.82	757.4	75	23.9	50	se.	10	4.5		3 k	0	sw.		0.07	1.8	clear	J. Craig.
San Antonio, Texas	29.35	745.5	30.04	763.0	72.5	22.5	97	ne.	4	1.8			10 s		ne.	1.10	27.9	cloudy	T. J. Kenan.
San Diego, California	29.85	758.2	29.92	760.0	65.0	18.3	87	sw.	1	0.4			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.42	747.3	30.08	764.0	73.7	23.2	84	sw.	2	0.9		6 k	0	sw.		0.03	0.8	fair	M. H. Perry.
Sandy Hook, New Jersey	30.09	764.3	30.12	765.0	72.0	22.2	97	ne.	3	1.3			fg.		calm	0	0	dense fog	B. A. Blundon.
San Francisco, California	29.85	758.2	29.92	760.0	53.5	11.9	90	sw.	9	4.0			fg.		sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.38	593.8	29.87	758.7	56	13.3	60	ne.	7	3.1		0	0			0.05	1.3	clear	H. U. Jones.
Savannah, Georgia	30.11	764.8	30.20	767.1	82	27.8	67	w.	5	2.2		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.48	672.6	30.01	762.2	60	15.6	93	e.	12	5.4		2 cs	0	w.		0.42	10.7	clear	A. L. Mathews.
Shreveport, Louisiana	29.87	758.7	30.10	764.5	71	21.7	84	s.	2	0.9		6 c	0			0	0	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.81	731.8	29.09	761.7	69.5	20.8	85	calm	0	0		3 k	0			0	0	clear	T. Cleary.
Silver City, New Mexico	24.38	619.2	29.84	757.9	60	15.6	58	s.	1	0.4		0	2 k		calm	0	0	clear	J. B. Wallace.
Sitka, Alaska	30.10	764.5	30.16	766.1	53.5	11.9	80	sw.	7	3.1		0	0			0	0	clear	J. J. McLean.
Smith, Fort, Arkansas	29.58	751.3	30.04	763.0	68.5	20.3	93	e.	2	0.9		3 cs	0	e.		0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.09	764.3	30.13	765.3	79	26.1	74	nw.	8	3.6		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.01	711.4	30.01	762.2	53	11.7	74	calm	0	0		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.37	746.0	30.03	762.7	70	21.1	92	s.	1	0.4		0	0			0.06	1.5	clear	T. B. Jennings.
Springfield, Massachusetts	29.98	761.5	30.11	764.8	69.0	20.6	93	s.	2	0.9			fg.			0	0	dense fog	T. S. Outram.
Springfield, Mo	28.64	727.4	30.03	762.7	66	18.9	97	sw.	5	2.2		0	3 s;fg		sw.	0.50	12.7	dense fog	J. B. Marbury.
Starkville, Miss	29.68	753.9	30.15	765.8	80	26.7	79	se.	7	3.1		3 cs	2 k	nw.	se.	0.11	2.8	fair	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.29	718.6	30.07	763.8	64	17.8	93	se.	3	1.3		0	0			0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.04	686.8	29.98	761.5	67.0	19.4	90	s.	12	5.4		0	0			0	0	clear	J. O'Dowd.
Thomas Camp	27.27	692.6	29.89	759.2	73	22.8	90	calm			0		10 ks		nw.	0.06	1.5	cloudy	
Thatcher's Island, Mass	30.02	762.5	30.07	763.8	70.2	21.2	77	sw.	1	0.4		0	0			0	0	clear	G. Liebmann
Toledo, Ohio	29.38	746.2	30.05	763.3	73.2	22.9	90	sw.	3	1.3		5c;ck	2s; fg	sw.		0.01	0.3	fair	A. Buell.
Tucson, Arizona	27.61	701.3	29.95	760.7	74	23.3	90	s.	2	0.9			9 ks			0.33	8.4	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.67	753.6	30.03	762.7	53	11.7	66	sw.	1	0.4		0	0			0	0	clear	J. Daly.
Uvalde, Texas	29.08	738.6	30.02	762.5	73	22.8	97	ne.	4	1.8			10 s		s.	0.23	5.8	cloudy	E. C. Imlay.
Verde, Fort, Arizona					74.1	23.4	64	sw.			1	2 cs	3 s	s.	sw.	0.06	1.5	fair	D. Brooks
Vicksburg, Mississippi	29.89	759.2	30.13	765.3	70	21.1	94	se.	6	2.7		3ck;c	2 s			0	0	fair	James Kenealy.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.60	624.8	29.94	760.5	55.0	12.8	77	w.	4	1.8		0	0			inap.	inap.	clear	T. M. Ambler.
Washington, D. C.	30.02	762.5	30.13	765.3	73.1	22.8	100	e.	2	0.9			10s;fg		ne.	0	0	cloudy	F. M. M. Beall.
West Las Animas, Colorado	26.13	663.7	29.88	758.9	61.4	16.3	78	ne.	7	3.1		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.54	750.3	30.12	765.0	71.5	21.9	83	calm	0	0		6 ck	4 ks	w.		0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.07	763.8	30.12	765.0	79	26.1	77	nw.	7	3.1		0	0			0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.58	649.7	29.81	757.2	49	9.4	46	s.	3	1.3		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.80	731.5	30.07	763.8	63	17.2	78	calm	0	0			10 s			inap.	inap.	cloudy	J. H. Attfield.
Yuma, Arizona	29.68	753.9	29.82	757.4	84.7	29.3	68	se.	7	3.1		0	8 s			0	0	cloudy	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.10	561.3			54.0	12.2	69	s.	6	2.7		4 cs	4 n;s	sw.	w.	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.10	764.5	30.11	764.8	82	27.8	91	e.				5 k	3 ks		ne.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.89	759.2	29.92	760.0	77	25.0	90	calm	0	0			10 ks		calm	0.40	10.2	cloudy	J. I. Plume.
Havana, Cuba	30.08	764.0	30.14	765.5	80	26.7	88	e.	3.6	1.6		0	0			0	0	clear	Robert Johnston.
Kingston, Jamaica, W. I.	30.08	764.0	30.09	764.3	77.9	25.5	78	n.	1	0.4		0	0			0	0	fine	S. M. Pike.
Magua, San Domingo, W. I					70	21.1		calm			0	0	0			0.34	8.6		F. M. Everett.
Navassa	29.96	761.0	30.04	763.0	82	27.8	74	e.	7	3.1		3 k	2 ks	se.	e.	0	0	clear	Chas. Hasselbrink.
Paramaribo, S. A.	30.12	765.0	30.12	765.0	79	26.1	78	se.			2	3 c	3 s	e		0.050	1.3		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.45	748.0	30.01	762.2	76	24.4	89	calm			0		10 ks		calm	0.01	0.3	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							94	ne.			1		10 ks		ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.26	768.6	30.31	769.9	51	10.6	93	calm			0	0	5 k			0.07	1.8	fair	W. J. Fisher.
St. Thomas, W. I.	30.01	762.2	30.14	765.5	83	28.3	74	ene.					3 k		e.	0.20	0.6	clear	Aug. Walloe.
York Factory, B. A.	29.95	760.7	30.01	762.2	53.0	11.7	93	nw.	18	8.0		4 k	5 s	nw.	nw.	0	0	cloudy	Fortesque & Wood.

STATIONS AND VESSELS	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S Alert, N. 15° 53′, W. 28° 12′	30.11	764.8	78.2	25.7	81	n.			3		6							misty.
H. M. S. Alexandra, Alexandria, Egypt	29.86	758.4	81.5	27.5	78	wnw.			3		1					2	wnw.	d. clouds.
H. M. S. Amethyst, S. 26° 02′, W. 47° 32′	30.34	770.6	67	19.4	76	nne.			3		1					4	ne	blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.92	760.0	78	25.6		nne.			2–3		5	n.						d. clouds.
H. M. S. Arab, Muscat, Arabia	29.33	745.0	91	32.8	82	se.			4		0							misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.22	767.6	60.5	15.8		nw.			1–2		2							squally.
H. M. S. Champion, N. 41° 55′, E. 132° 45′			66	18.9	100	ssw.			6–7		4					6	sse.	squally.
H. M. S. Comus, Esquimalt, Vancouver Island	30.10	764.5	52	11.1	72	calm			0		2							d. clouds.
H. M. S. Diamond, S. 10° 01′, E. 160° 13′	29.91	759.7	80	26.7		se.			1–2		10					1	se.	thnd'rstorm.
H. M. S. Dido, N. 17° 00′, W. 62° 00′	30.16	766.1	80	26.7		e.			2		4	e.						d. clouds.
H. M. Dock Yard, Bermuda, W. I.	29.97	761.2	79.5	26.4	86	ene.			4–5		6	ene.						d. clouds.
H. M. S. Druid, N. 49° 45′, W. 16° 43′	30.30	769.6	60.5	15.8	94	e.			1		9	w.				1	e.	foggy.
H. M. S. Emerald, N. 38° 10′, W. 25° 56′	30.28	769.1	72.5	22.5	100	nne.			1		10					3	nne.	d. clouds.
H. M. S. Espiegle, S. 15° 14′, E. 167° 54′	29.92	760.0	78	25.6	95	se.			1		0							blue sky.
H. M. S. Fantome, N. 10° 37′, W. 66° 56′	30.00	762.0	79	26.1		ene.			1		3	ene.				2	ne.	d. clouds.
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33′	29.61	752.1	73	22.8	93	w.			2		7					1	n.	misty.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.09	764.3	60.5	15.8	82	sse.			3		3							d. clouds.
H. M. S. Griffon, N. 44° 52 W. 61° 57′	29.96	761.0	61.5	16.4	77	sw.			3		10					5	ssw.	foggy.
H. M. S. Iron Duke, N. 47° 54′, E. 140° 40′	29.78	756.4	68	20.0	84	s.			2		8	sse.				2	s.	d. clouds.
H. M. S. Lark. S. 10° 16′, E. 161° 51′	29.95	760.7	79.3	26.3	88	se.			2		5					2	e.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.09	764.3	58	14.4		ne.			2							4	n.	d. clouds.
H. M. S. Magpie, N. 35° 07′, E. 128° 40′	29.65	753.1	81.5	27.5	81	e.			1		1							blue sky.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.86	758.4	81	27.2	76	wnw.			3		2							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia						sse.			1									
H. M. S. Pegasus, N. 4° 44′, E. 100° 17′	29.87	758.7	83	28.3	87	e.			2		5							d clouds.
H. M. S. Rambler, Ascension Island, Africa	30.10	764.5	76	24.4	90	sse.			4		3	ese.				2	ene.	d. clouds.
H. M. S. Sappho, Honolulu, Sandwich Islands	30.02	762.5	77	25.0	86	ne.			1		6							drizzling.
H. M. S. Swiftsure, Sandy Point, Patagonia	30.04	763.0	39	3.9	100	ese.			2		10	ese.						drizzling.
H. M. S. Tenedos, N. 51° 04′ W. 55° 40′	30.02	762.5	48	8.9	92	ne.			1		1							blue sky.
H. M. S. Triumph, S. 48° 58′, W. 64° 34′	30.02	762.5	42	5.6	91	nnw.			6		10	nw.				5	n.	showery.
H. M. S. Woodlark, Jask, Persia	29.30	744.2	93.5	34.2	67	w.			2		0							blue sky.
H. M. S. Zephyr, N. 48° 10′, E. 140° 35′	29.67	753.6	56	13.3	?	s.			4–6		10					3	s.	foggy.
PORTUGUESE NAVAL.																		
Rio Lima, Bulama, Senegambia	30.07	763.8	80.6	27.0	88	nw.			2		6			2 h'r	2 h'r			showery.
Tamega, Macao, China	29.72	755.0	85.1	29.5	73	e.			2		0							blue sky.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.02	762.5	81	27.2	87	sw.	3	1.3			8		sw.	0.85	21.6			fair.
Navy Yard, Portsmouth, N. H.	30.03	762.7	72	22.2	71	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.87	758.7	77.5	25.3	93	ssw.			3		10		s.	1.89	48.0			cloudy.
Adams, Mare Island, Cal			59	15.0	76	sw.			3		0			0	0	sm'h		clear.
Alaska, S. 8° 50′, W. 93° 52′	30.04	763.0	68	20.0	79	se.			3		2		se.	0	0	long	s.	fair.
Alliance, Boston, Mass	30.06	763.5	72	22.2	85	nw.			1		2			0	0	sm'h		clear.
Ashuelot, Yokohama, Japan*	29.91	759.7	78	25.6	95	s.			2		10		sw.					rainy.
Brooklyn, Rio de Janeiro, Brazil	30.43	772.9	64	17.8	89	ne.	2	0.9			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.68	764.0	72	22.2	95	s.	3	1.3			8			0	0			misty.
Constellation, N. 39° 18′, W. 72° 35′*	30.11	764.8	74	23.3	95	ne.			3		10		ne.			sm'h		foggy.
Enterprise, Boston, Mass	30.05	763.3	66	18.9	90	w.			1		2		w.					clear.
Essex, Coquimbo, Chili	30.25	768.3	59	15.0	82	sw.			2		5?		sw.			sm'h	se.	clear ?
Franklin, Norfolk, Va	30.11	764.8	79	26.1	91	nne.	2.4	1.1			2		e.	0	0			fair.
Galena, Funchal, Madeira	30.06	763.5	75	23.9	90	wsw.			1		10					sm'h		cloudy.
Independence, Mare Island, Cal	29.92	760.0	58	14.4	94	sw.			3		0			0	0			clear.
Iroquois, N. 24° 47′ W. 112° 40′	29.98	761.5	68	20.0	84	ssw.			1		5		nw.	0	0	sm'h	nw.	fair.
Kearsage, Norfolk, Va	30.11	764.8	78	25.6	95	calm			0		8		nnw.					fair.
Lackawanna, Callao, Peru*	30.06	763.5	60	15.6	82	sse			2		8							cloudy.
Lancaster, Villafranca, France*	29.86	758.4	80	26.7	82	se.			2		0			0	0			clear.
Marion, S. 34° 54′, W. 56° 13′	29.90	759.4	61	16.1	94	nnw.			5		10		nw.			mod.		cloudy.
Michigan, Milwaukee, Wisconsin	29.91	759.7	67	19.4	95	ne.			1		10		ne.					foggy.
Minnesota, off New York, N. Y.	30.13	765.3	74	23.3	95	calm	0	0										dense fog.
Monocacy, Che Foo, China	29.72	754.9	78	25.6	78	s.			1		2		calm			sm'h		fair.
New Hampshire, Newport, R. I.	30.13	765.3	71	21.7	95	sw.			2		2					sm'h		foggy.
Nipsic, Villafranca, France*	29.81	757.2	79	26.1	74	se.			1		2					sm'h		fair.
Onward, Callao, Peru†	30.18	766.6	59	15.0	88	se.			4		8		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.79	756.7	79	26.1	86	ssw.			3		10		ssw.					cloudy.
Passaic, Washington, D. C.	30.16	766.1	73	22.8	100	ne.			1		10							cloudy.
Pensacola, Panama, Panama*	29.86	758.4	77	25.0	86	nnw.	7	3.1			8		nnw.	0	0			cloudy.
Portsmouth, N. 42° 33′, E. 6° 42′*	29.80	756.9	79	26.1	74	ne.			1		0					sm'h		clear.
Powhatan, Norfolk, Va	30.12	765.0	81	27.2	62	calm			0		5							fair.
Quinnebaug, Alexandria, Egypt*	29.85	758.2	81	27.2	78	wnw.			3		0					sm'h		clear.
Ranger, Mare Island, Cal	29.92	760.0	58	14.4	76	ssw.			3		2		sw.	0	0			clear.
Richmond, Yokohama, Japan*	29.91	759.7	78	25.6	100	sse.			3		10			0.52	13.2			threatening.
Saratoga, N. 43° 35′, E. 7° 43′	29.81	757.2	82	27.8	67	calm			0		2		calm	0	0	sm'h		fair.
St. Louis, League Island, Pa	30.33	770.4	75	23.9	90	calm			0		10			0	0			cloudy.
Swatara, N. 34° 27′, E. 134° 06′*	29.63	752.6	80	26.7	82	nnw.			1		0					sm'h		clear.
Tennessee, Boston, Mass	30.11	764.8	73	22.8	85	sw.	4	1.8			2			0	0			clear.
Vandalia, Portsmouth, N. H*	30.02	762.5	72	22.2	80	nw.			1		0							clear.
Wabash, Boston, Mass	30.07	763.8	73	22.8	76	w.					2		w.	0	0			clear.
Wachusetts, Fort Wrangle, Alaska †	30.34	770.6	53	11.7	93	calm			0		0			0	0	sm'h		clear.
Wyoming, Port Royal, S. C*	30.16	766.1	79	26.1	78	wnw.	8	3.6			2		calm	0	0			clear.
Yantic, Boston, Mass	30.07	763.8	71	21.7	90	w.			1		2							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ALLAN LINE.																		
S. S. Grecian, N. 50° 37′, W. 1° 42′*	30.19	766.8	63	17.2		sw.			3		0			0	0	sm'h		clear.
S. S. Scandinavian, N. 52° 23′ W. 19° 25′	29.97	761.2	58	14.4		wsw.			2		10			0	0	mod.	sw.	misty.
S. S. Waldensian, N. 52° 28′ W 33° 08′ *	29.86	758.4	65	18.3		sw.			3		fg		sw.	0	0	light	ssw.	rain & fog.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N 48° 11′, W. 29° 01′†	30.14	765.5	66	18.9		ssw.			4		7		wsw.	0	0	sm'h		cloudy.
S. S. Indiana, N. 38° 54′, W. 71° 52′.†	30.25	768.3	78	25.6	95	w.			3		2		w.			sm'h	w.	fine.
S. S. Lord Clive, Philadelphia, Pa.*†	30.10	764.5				s.			1		1		s.	0	0			fine.
S. S. Ohio, Philadelphia, Pa.†	30.08	764.0	75	23.9	95	calm			0		10			0	0			foggy.
AMSTERDAM LINE.																		
S. S. Jason, N. 40° 45′, W. 65° 30′*	30.03	762.7	60.8	16.0		ese.			2		10 n					1	se.	foggy.
S. S. Stella, N. 44° 32′, W. 49° 52′	29.95	760.8	69.8	21.0		wsw.			2		7		wsw.			1	w.	drizzling.
ANCHOR LINE.																		
S. S. Alexandria, Messina, Sicily	29.83	757.7	78	25.6		nne.			3		0			0	0			clear.
S. S. Assyria, N. 45° 12′, W 41° 07′†	30.08	764.0	71	21.7		wsw.			3		0			0	0	sm'h		clear.
S. S. Bolivia, N. 55° 23′, W. 12° 48′ *†	30.20	767.1	59	15.0		w.			4		10		w.	1 h'r	1 h'r	long	w.	hazy.
S. S. Devonia, N. 51° 39′, W. 29° 09′†	30.11	764.8	56	13.3		sse.			4		10		see.			light	s.	cloudy.
S. S. Dorian, N. 42° 36′ W. 55° 26′*	29.94	760.5	69	20.6		w			4		2		w.	0	0	mod.	w.	clear.
S. S. Ethiopia, N. 40° 38′, W. 69° 10′	30.07	763.8	69	20.6	?	ese.			2		10		ne.	0	0	sm'h		dense fog.
ATLAS LINE.																		
S. S. Ailsa, Savanilla, U. S. C†.	30.02	762.5	84	28.9	71	calm			0		5		ne.	0	0			hazy.
S. S. Alene, St. Marc, Hayti, W. I.†	30.02	762.5																
S. S. Alpin, N. 16° 04′, W. 67° 43′	30.08	764.0				e.			2		3		e.	0	0		ese.	clear.
S. S. Alvo, N. 34° 59′, W. 74° 06′	30.03	762.7				n.			4		2		n.	shr's	shr's	mod.	n.	clear.
S. S. Antillas, N. 20° 59′, W. 66° 40′ †	29.95	760.7	84	28.9		sse.			4		8?		see.	0	0	sm'h		clear?
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 40° 50′ E. 16° 30′	29.74	755.4	58	14.4	82	w.			6		6							showery.
S. Baroda, S. 4° 48′, W. 12° 59′	30.20	767.1	75.5	24.2	76	sse.			5		1							blue sky.
Bk. Caldew, S. 34° 19′, W. 10° 23′	30.15	765.8	58	14.4	81	sw.			2		0							d. clouds.
Bk. Commewyne, N. 40° 11′, W. 40° 17′	30.11	764.8	70.8	21.6	95	sw.			3		10							raining.
S. S. City of Agra, S. 38° 18′, W. 17° 00′	30.15	765.8	50	10.0	100	nw.			5		5							d. clouds.
S. S. Humboldt, S. 28° 00′, W. 49° 30′	30.38	771.6	67.1	19.5	68	nnw.			5	1	4					4	n.	d. clouds.
May Hulse, N. 33° 57′, W. 38° 25′	30.24	768.1	70.5	20.4	82	s.			2		2							blue sky.
S. S. Minho, N. 5° 53′, W. 28° 14′	30.11	764.8	80	26.7	86	sse.			4		4							d. clouds.
S. S. Oamaru, S. 4° 30′, W. 17° 30′	30.20	767.1	77.0	25.0	82	e.			3-4		2							blue sky.
S. S. Mertola, N. 41° 02′, W. 11° 30′	29.95	760.7	68.7	20.4	90	nne.			3		0							misty.
S. S. Pole Star, N 48° 18′, W. 21° 56′	30.27	768.8	62.3	16.8	98	sw.			2		9							gloomy.
S. S. Rosetta, N. 12° 09′, E. 111° 22′	29.76	755.9	78.5	25.8	86	sw.			4		0							misty.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 32° 25′, W. 117° 28′*†	29.97	761.2	58	14.4	76	wsw.			3		1		sw.			mod.	nw.	hazy.
CUNARD LINE.																		
S. S. Gallia, Queenstown, Ireland	30.25	768.3	66	18.9	90	w.			3		2		nw.	0	0			fine.
S. S. Marathon, Portsmouth, Eng	30.15	765.8	72	22.2		wnw.			2		0			0	0	sm'h	wnw.	clear.
S. S. Scythia, N. 42° 39′, W. 48° 17′	30.02	762.5	74	23.3	90	wsw.			2		1		calm	0	0	sli't	w.	fine.
DONALDSON LINE.																		
S. S. Colina, N. 39° 02′, W. 69° 14′†	30.20	767.1				s.			1		8		s.			sm'h	ssw.	drizzling.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N 49° 45′, W. 9° 40′†	30.22	767.7	60.8	16.0		n.			2	10 ck				0	0	sm'h	n.	
S. S. Ville de Marseilles, N. 37° 50′, W. 28° 12′*†	30.25	768.3	75	23.9		w.			3		3		nw.	0	0	sm'h		clear.
GUION LINE.																		
S. S. Wisconsin, N. 45° 30′, W. 42° 07′	30.03	762.7	73	22.8		sw.			3		0			0	0	sm'h		clear
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Herder, N. 49° 44′, W. 10° 57′			74	23.3		nne.			3		3		wnw.	0	0	sm'h	nnw.	foggy.
S. S. Silesia, Hamburg, Germany	29.83	757.7	65	18.3		w.			0				w.	5 h'r	5 h'r			squally.
S. S. Westphalia, New York, N. Y	30.06	763.5	74	23.3	98	w.			2		2		w.	0	0			clear.
S. S. Wieland, N. 42° 12′, W. 56° 44′	30.12	765.0	71	21.7		w.			4		1		w.	0	0	3	w.	clear.
LAMPERT AND HOLT'S LINE.																		
S. S. Archimedes, N. 40° 26′, W. 73° 00′†.	30.13	765.3				calm			0					0	0	light	ese.	dense fog.
S. S. Hevelius, Buenos Ayres, S. A*†	30.02	762.5	80	26.7		ne.			5		8?		ne.	12 h'r	12 h'r			clear?
LEYLAND LINE.																		
S. S. Bulgarian, N. 42° 20′, W. 70° 30′*						sw.			1		0			0	0			clear.
MALLORY LINE.																		
S. S. City of San Antonio, N. 32° 24′, W. 75° 25′*†	30.26	768.6				wnw.			3		2		wnw.	0	0	mod.	sw.	fair.
S. S. Colorado, N. 28° 12′, W. 91° 51′†	30.12	765.0	82	27.8		s.			3		8		s.	4 h'r	4 h'r	small	s.	cloudy.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 37° 33′ W. 31° 18′*†	30.37	771.4	78	25.6	86	s.			1		2		s.	0	0	sm'h	ssw.	clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 6° 30′, W. 50° —†.	30.06	763.5				se.			3		5		se.	0	0	sm'h		fair.
MORGAN LINE.																		
S. S. Chalmette, N 38° 10′ W. 74° 25′†	30.13	765.3	75	23.9		ne.			2		10		sw.	0	0	mod.	e.	cloudy.
S. S. New York, N. 29° 00′, W. 89° 15′†	30.26	768.0	81.0	27.2		sw.			5		10							overcast.
NATIONAL LINE.																		
S. S. Denmark, N. 40° 47′, W. 59° 35′	30.14	765.5	74	23.3		sw.			3		2		sw.	0	0	slight	sw.	clear
S. S. Erin, N 47° 41′ W 31° 53′	30.05	763.3	67	19.4	60	ssw.			4					8 h'r	8 h'r	con.		dense fog.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 28° 58′, W. 74° 00′†	30.21	767.3	82	27.8		nnw.			4		2		nw.	0	0	gentle	nnw.	fine.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 24° 55′, W. 80° 10′†	30.20	767.1	86	30.0	68	ene.			4		0			0	0			hazy.
S. S. City of Washington, N. 18° 42′, W. 93° 00′*†	30.10	764.5	80	26.7		e.			4		5		e.	0	0	light	w.	fine.
NORTH GERMAN LLOYD.																		
S. S. America, N. 38° 30′, W. 64° 47′*	30.18	766.6	79.0	26.1	70	se.			3		4		se.	2 h'r	2 h'r	sm'h	ese.	clear.
S. S. Graf Bismark, N. 36° 26′, W. 10° 49′	29.98	761.5	78.8	26.0		e.			1-2		8		e.	0	0	sm'h	nw.	cloudy.
S. S. Koln, N. 49° 47′, W. 13° 18′*	30.31	769.9	82.0?	27.8?	73	nne.			2		10			0	0	sm'h	nnw.	foggy.
S. S. Neckar, N. 40° 10′, W 70° 14′	30.14	765.5	76.0	24.4	100	e.			1							sm'h	e.	foggy.
S. S. Ohio, N. 38° 55′, W. 55° 37′	30.21	767.3				w.			3		3		w.	30 minutes		mod.	w.	fair.
S. S. Salier, N. 41° 25′, W. 65° 20′	30.17	766.3	63.5	17.5		s.			1		2		sw.	0	0	mod.	sw.	fair.
S. S. Strassburg, N. 48° 26′, W. 27° 41′	30.19	766.8	61.0	16.1	97	ssw.			3		10		ssw.	0	0	sm'h		hazy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 38° 31′, E. 155° 25′†	30.30	769.6	71	21.7	86	wnw.			2		2		nw.	0	0	sm'h		clear.
S. S. Coptic, N. 34° 28′, E. 138° 00′	29.94	760.5	75.8	24.2	?	sse.			4		10		s.	10 h'r	10 h'r	o	se.	raining.
S. S. Gaelic, Yokohama, Japan †	30.08	764.0	76	24.4	95	sse.			4		7		se.					cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 34° 00′, W. 77° 03′†	30.21	767.3				wnw.			3		0			0	0	sm'h		clear.
S. S. Seminole, N. 37° 10′, W. 74° 20′†	30.22	767.6	80	26.7	91	nne.			1		2		ne.	0	0	sm'h	ene.	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 43° 34′, W. 124° 32′†	30.09	763.5	57.5	14.2	91	n.			1		0		n.			sm'h	n.	cloudy.
S. S. Oregon, Portland, Oregon †	30.05	763.3	57	13.9	94	nw.			1		0							clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 35° 17′, W. 120° 57′.†	29.88	758.0	53	11.7	93	ese.			3		10		e.			mod.	nnw.	hazy.
S. S. City of Chester, off Point Sur, Cal. *†	29.76	755.0	63	17.2	94	nw.			4		5		nw.			long	nw.	cloudy.
S. S. Idaho, N. 47° 35′, W. 122° 15′†	30.12	765.0	55	12.8	93	calm			0		2		n.	0	0	sm'h		hazy.
S. S. State of California, San Francisco, Cal†	29.91	759.7	52	11.1	93	w.			3		10		w.					foggy.
S. S. Victoria, San Francisco, Cal†	29.80	758.5	51	12.2	87	sw.			1		2			0	0	sm'h		hazy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	29.85	758.2	56	13.3	78	calm			0		5?			0	0			clear?
S. S. City of New York, Sydney, N. S. W†	29.81	757.2	58	14.4	79	sw.			2		8		wsw.	0	0			cloudy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From.	Lower. From.	Inch.	Mill.			
Pacific Mail Steamship Company.—Continued.																		
S. S. City of Pekin, N. 45° 35′, W. 145° 26′†	30.65	778.5	60	15.6	94	w.			3		10		w.	0	0	sm'h		foggy.
S. S. City of Rio de Janeiro, N. 14° 10′, W. 92° 37′*†	30.23	767.8	84	28.9	87	nne.			3		8		nne.	0	0	light	s.	fine.
S. S. City of Sydney, N. 33° 28′, W. 133° 45′†	30.30	769.6	68	20.0	79	n.			3		5		nne.	0	0	mod.	ne.	fair.
S. S. City of Tokio, Hong Kong, China†	29.78	756.4	84	28.9	87	sw.			2		5		sw.	0	0			fine.
S. S. Colima, N. 31° 35′, W. 119° 04′†	29.93	760.2	58	14.4	82	nw.			3		10		calm	0	0	mod.	nw.	misty.
S. S. Colon, N. 18° 55′, W. 74° 36′†	30.13	765.3	84	28.9		calm			0		0			0	0	sm'h		clear.
S. S. Grenada, Panama. Panama†	29.93	760.2	78	25.6	91	nw.			2		8		wnw.	2 h'r	2 h'r	sm'h	nnw.	clear.
S. S. Zelandia, N. 22° 50′, W. 155° 45′	30.18	766.6	77	25.0	91	e.			4		5?		e.			mod.	e.	clear.?
Quebec Steamship Co.																		
S. S. Bermuda, N. 31° 41′, W. 69° 30′†	30.06	763.5	83	28.3		n.			2		2		nnw.	1 h'r	1 h'r	gentle	var.	fine.
S. S. Muriel, Off Saba, W. I.	30.08	764.0	84	28.9		ese.			3		2			0	0	sm'h		fair.
Red D Line.																		
S. S. Valencia, N. 21° 49′, W. 68° 30′*†	30.33	770.4	85	29.4	72	sw.			1		1		s.	0	0	sm'h	s.	fine.
Red Star Line.																		
S. S. Belgenland, Philadelphia, Pa.†	30.29	769.4	77	25.0	91	calm			0		7		e.	0	0			cloudy.
S. S. Nederland, N. 43° 36′, W. 44° 27′†	29.95	760.7	73.5	23.1	90	wsw.			5		0			0	0	mod	wsw.	clear.
S. S. Pennland, N. 50° 38′, W. 0° 15′	30.24	768.1				wsw.			3		5		w.	0	0	sm'h		hazy.
S. S. Rhynland, Antwerp, Belgium*†	30.43	772.9	66	18.9	79	nw.			6		4		nne.	0	0			fair.
S. S. Vaderland, N. 40° 31′, W. 69° 47′	29.92	760.0	64	17.8	100	e.			1		0			0	0	sm'h		foggy.
S. S. Waesland, New York, N. Y.	30.07	763.8	75	23.9		s.			3		10		ssw.	0	0			overcast
Rotterdam Line.																		
S. S. Edam, N. 42° 22′, W. 58° 58′	30.05	763.3	72.0	22.2	98	wnw.			3		10		nw.	sh'rs	sh'rs	sm'h	se.	fair.
S. S. W. A. Scholten, N. 49° 27′, W. 7° 49′*	30.18	766.6	65.2	18.4	84	ne.			2		7		ese.			sm'h	w.	
Royal Mail Steam Packet Co.																		
S. S. Belize, N. 38° 24′, W. 73° 53′	30.12	765.0	78	25.6		ne.			1		8		e.	2 h'r	2 h'r	gentle	e.	cloudy.
State Line.																		
S. S. State of Georgia, N. 43° 45′, W. 50° 36′†	30.02	762.5	64	17.8		wsw.			5		8		wsw.	2 h'r	2 h'r	sll't	wsw.	showery.
S. S. State of Indiana, Irish Channel†	30.24	768.1	60	15.6		w.			3		4		w.	0	0	mod.	w.	hazy.
Thingvalla Line.																		
S. S. Thingvalla, N. 46° 47′, W. 42° 59′†	30.18	766.6	59.0	15.0	100	sw.			2		10		sw.	1 h'r	1 h'r	mod	sw.	
Warren Line.																		
S. S. Iowa, N. 42° 34′ W. 53° 58′*†	30.20	767.1	70	21.1		wsw.			3		4		wsw.	0	0	sm'h		clear.
W. I. & Pacific S. S. Co.																		
S. S. Venezuela, N. 50° —′, W. 15° —′*	30.35	770.9	63	17.2	89	calm			0		8		s.			sm'h		foggy.
White Star Line.																		
S. S. Adriatic, Liverpool, Eng*†	30.35	770.9	65	18.3	92	wnw.			4		5		n.w.	0	0			fair.
S. S. Baltic, N. 51° 09′ W. 12° 16′	30.34	770.0	60	15.6	88	nw.			1		7		ne.	2 h'r	2 h'r		s.	d. clouds.
S. S. Britannic, N. 50° 53′, W. 25° 03′†	30.27	768.8	59	15.0	94	e.			1		10			0	0	sm'h		misty.
S. S. Celtic, N. 40° 38′, W. 72° 50′†	30.18	766.6	71	21.7	100	var.			1		10		w.	0	0	sm'h		foggy.
S. S. Germanic, N. 50° 50′, W. 14° 30′†	30.43	772.9	59	15.0		calm			0		8		e.	0	0	sm'h		misty.
S. S. Republic, N. 42° 00′, W. 52° 46′†	30.27	768.8	71	21.7	85	sw.			3		0			0	0	sm'h		blue sky
Wilson Line.																		
S. S. Romano, N. 43° 29′, W. 45° 30′	30.01	762.2	69	20.6		sw.			3		1		sw.	0	0	cross	sw.	clear.
Winsor Line.																		
S. S. Catherine Whiting, Fire Island, N. Y†	30.18	766.6	74	23.3		wsw.			1				w.	0	0	light	s.	
Miscellaneous.																		
Bk. Adelaide, N. 38° 05′, W. 61° 31′*†	30.30	769.6	82	27.8		s.			3		2		sse.	0	0	light	s.	fair.
Schr. Ajax, N. 36° 63′, W. 74° 59′†	30.20	767.1				ene.			1		6		n.	0	0	sm'h	n.	fair.
Bk. Alpha, N. 58° 10′, W. 15° 19′†	30.07	763.8	56	13.3		w.			7		9			0	0	liv'y	w.	covered.
Bk. Anna Thormann, S. 37° 37′ E. 87° 53′	30.30	769.6	54.3	12.4	90	n.			6		10 n		n.	sh'rs	sh'rs	mod	nw.	misty.
S. S. Antonio Lopez, N. 23° 08′, W. 79° 51′*	30.14	765.5	82	27.8	83	e.			4		7			0	0	sm'h		squally.
Bk. Argonaut, N. 43° 57′ W. 56° 39′*†	30.05	763.3	61.3	16.3		wsw.			3		8		nw.	1 h'r	1 h'r	mod.	w.	raining.
Bk. Aureola, S. 1° 16′, W. 37° 16′*†	30.26	768.6	81	27.2		s			4		3		s.	0	0	mod.	s.	clear.
Bk. B. F. Watson, N. 32° 18′ W. 47° 50′†	29.27	768.8	80	26.7		s.			3		5		s.	0	0	sm'h	s.	fair.
Bk. Bergenseren, N. 46° 56′, W. 62° 20′†	29.87	758.6				e.			2		fg.		e.	0	0	sm'h		overcast.
Bk. Bremen, N. 55° 48′, W. 14° 43′*†	30.25	768.3				w.			4		6		w.	8 h'r	8 h'r	mod	w.	fair.
S. S. Burswell, N. 48° 17′, W. 5° 51′*†	30.28	769.1	75	23.9		nne.			2		0			0	0	sm'h		very fine.
Bk. Cato, Malmö, Sweden*†	30.18	766.6				nnw.			3									fair.
Bk. Celestina, N. 9° 07′, W. 23° 05′*†	30.06	763.5				s.			2		8		sw.	0	0	sm'h	s.	cloudy.
Schr. C. R. Flint, N. 38° 51′, W. 74° 27′†	30.30	769.6	71	21.7		calm			0		fg		calm	0	0	sm'h	ese.	cloudy.
S. Cornelius, N. 48° 31′, W. 11° 58′*†.	30.53	775.4	56.3	13.5		ene.			3		10		e.	0	0	sm'h	se.	cloudy.
S. Dora, N. 5° 35′, W. 19° 45′†	30.23	767.8	79.7	26.5		s.			4		3		s.	0	0	mod.	s.	clear.
Schr. Edith R. Seward, N. 36° 30′, W. 75° 30′*†	30.15	765.8	82	27.8		n			1		2		n.	0	0	sm'h	nne.	clear.
S. E. J. Spicer, New York, N. Y.*	30.12	765.0	78	25.6		var.			2		fg.			0	0			foggy.
S. Enoch Train, N. 48° 31′, W. 15° 20′†	30.59	774.7				ene.			1		10		calm	0	0	sm'h		
Bk. Essex, S. 11° 00′ E. 42° 40′*†	30.14	765.5	81	27.2		s.			5		5		s.	0	0	mod	sse.	hazy.
Bk. Franklin, N. 53 15′, W. 19° 50′*†.	30.60	777.2				sw.			2		5			0	0	sm'h		misty.
Bk. Freya, Baltimore, Md.						ssw.			2		0			0	0			clear.
S. Glendon, N. 39° 20′ W. 62° 30′†	30.17	766.3	84	28.9		s.			2		9		s.	0	0	sm'h		fair.
Bk. Godefroy, N. 43° 52′ W. 13° 26′	30.09	764.3	64.0	17.8	80	ne.			6		8		ne.	0	0	long	ene.	cloudy.
S. Grecian, N. 19° 37′, W. 115° 00′*†	29.73	755.1	86	30.0		nne.			3		2		ne.	0	0	r'gh	s	clear.
Bk. Gronsvaer, N. 32° 40′, W. 41° 20′†	30.27	768.8				sse.			5		2		s.	0	0	sm'h		fair.
Bk. Hattie G. McFarland, Boston, Mass*†	30.14	765.5	75	23.9		sw.			3		0			0	0			clear.
Schr. Hattie Weston, N. 11° 12′, W. 62° 02′*†	30.10	766.1	83	28.3		e.			2		1		se.	0	0	sm'h	e.	clear.
Bk. Heinrich & Tonio, N. 41° 50′, W. 39° 30′*†	30.32	770.1	75	23.9		wsw.			2		10		sw.	3 h'r	3 h'r	light	e.	cloudy.
Bk. Horace Scudder, Port of Spain W. I†	30.13	765.3	80	26.7		ese.			1		5		e.	1 h'r	1 h'r			blue sky
S. Ivy, S. 36° 50′, W. 118° 35′†	30.26	768.6	54	12.2		wnw.			7		3		wnw.	0	0	h'v'y	w.	threatening
S. Ismir, S. 6° 35′, E. 105° 24′†	29.95	760.7				ne.			1		6			0	0	sm'h		fine.
Schr. James Slater, N. 30° 51′, W. 70° 02′*†	30.32	770.1	83	28.3		nnw			3		10			5 h'r	5 h'r	short	w.	squally.
Schr. Jennie N. Huddell, Philadelphia, Pa†	30.12	765.0	77	25.0	95	e.			1		8		e.	0	0			cloudy.
Bk. Johanne, N. 42° 00′, W. 58° 00′*†	30.10	764.5	71	21.7		wnw.			5		5		nw.	0	0	mod.	v/sw.	fine.
Bg. John Wesley, St. Jago, Cuba W. I†	29.91	759.7				n.			1		2		ese.	1 h'r	1 h'r			clear.
Bk. Joseph A. Ropes, S. 35° 38′, W. 12° 06′*†	30.17	766.3	54	12.2	81	sse.			3		5		sse.	3 h'r	3 h'r	mod.	sw.	fair.
Bkt. Josephine, Havana, Cuba, W. I.†	30.12	765.0	81	27.2	82	e.			2		2			0	0			fair.
Bkt. Kryolith, N. 39° 38′ W. 72° 35′*†	30.14	765.5				nne.			2		fg.					sm'h		foggy.
Light House Tender, Laurel, Key West, Fla†	30.20	767.1	85	29.4		e.			2		4		e.	0	0			fair.
Bk. Liberia, N. 29° 16′, W. 66° 12′*	30.06	763.5	80	26.7	85	nw.			4		5		nw.	0	0			
Maggie Abbott, N. 20° 20′, W. 73° 09′†	30.11	764.8									1		ese.	0	0		e.	clear.
S. Minnie N. Gerow, N. 46° 26′, W. 31° 30′*†	30.12	765.0				sse.			2		10		s.			sm'h	sw.	threatening
S. M. P. Grace, S. 49° 35′, W. 86° 35′*	29.58	751.3	42	5.6		e.			2				sw.	slight	slight	sm'h	sw.	cloudy.
Bk. National Eagle, N. 39° 00′, W. 43° 00′†	30.11	764.8				nnw.			1		8		w.	4 h'r	4 h'r	sm'h		clearing.
S. S. Nebo, Cartnagena Spain*†	30.06	762.0				calm.			0		0			0	0	sm'h		clear.
S. Oracle, N. 37° 07′, W. 70° 42′*†	30.01	762.2	79	26.1	90	e.					7 e		ese.					cloudy.
S. Orealla, N. 25° 40′, W. 38° 45′*	30.14	765.5				ese.			2		3		ese.	0	0	mod.	ene.	hazy.
S. Paramita, N. 34° 10′ W. 135° 21′†	30.21	767.3	73	22.8		n.			3		1		nnw.	1 h'r	1 h'r	long	nne.	clear.
Bk. Rosebud, N. 37° 40′ E. 29° 02′*†	30.05	763.3	68	20.0	84	e; n.			6		hz.			0	0	long	wsw.	
S. St. Francis, N. 35° 33′, W. 56° 17′†	30.20	767.1	76	24.4		e.			2		2		ene.	0	0	long	ese	fine.
Bk. Sunbeam, N. 39° 12′ W. 42° 45′†	30.17	766.3	76	24.4	90	wsw.			3		8		wnw.	10 h'r	10 h'r	sm'h		clearing.
S. S. Sunbeam, N. 36° 44′, W. 1° 07′	29.98	761.5	75	23.9	85	w.			2		1							d. clouds.
S. Sovereign of the Sea, S. 39° 13′, W. 55° 26′*†	29.80	756.9	47	8.3	100	ene.			2		10			3 h'r	3 h'r	short	ene.	thnd'rst'rm
Bk. Truro, N. 40° 29′, W. 66° 30′*†	30.12	765.0				ssw.			2		3		wsw.	0	0	sm'h		clear.
U.S.F.C.S.S. Fish Hawk, Woods Holl, Mass†	30.27	768.8	70	21.1	100	calm			0		10			0	0			foggy.
Bk. Vincenzo Accame N. 39° 04′, W. 39° 10′†	30.39	772.0	75.2	24		wsw.			6									rainy.
Schr Viola Reppard, N. 34° 12′, W. 76° 06′†	30.07	763.8	84	28.9		wnw.			4		1		wnw.	0	0	chop	sw.	
Bg. Wauburn, Azua, San Domingo*†	30.10	764.5				nnw.			3		2		nne.			mod.	sse.	¼ covered.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 7, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ALGERIAN.																			
Nemours	.....	.....	29.96	761.0	81.0	27.2	72	sw.	.....	.....	1	.....	6	.....	.....	0	0	cloudy	Bouvier.
Algiers	.....	.....	29.95	760.8	79.9	26.6	61	n.	.....	.....	2	.....	0	.....	.....	0	0	clear	Thève.
La Galle	.....	.....	29.97	761.2	86.0	30.0	41	n.	.....	.....	2	.....	1	.....	.....	0	0	fair	Fonfrède.
Tunis	.....	.....	29.94	760.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.03	762 8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Perès.
Tebessa	.....	.....	30.02	762.4	91.0	32.8	11	nw.	.....	.....	3	.....	2	.....	.....	0	0	fair	Rigaud.
Geriville	.....	.....	.....	.....	97.5	36.4	3	nnw.	.....	.....	2	.....	3	.....	.....	inap.	inap.	pretty fair	Lonchamp.
Laghouat	.....	.....	30.06	763.4	102.2	39.0	24	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	Abraham.
Biskra	.....	.....	30.04	763.1	99.3	37.4	25	nw.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
AUSTRALIAN.																			
Melbourne, Victoria	29.86	758.4	29.95	760.7	44.0	6.7	90	calm	0	0	.....	.....	2	.....	.....	0.17	4.3	fine	R. L. J. Ellery.
AUSTRO-HUNGARIAN.																			
Agram	29.30	744.3	29.83	757.6	74.7	23.7	50	ne.	.....	.....	1	.....	2	.....	.....	0.079	2.0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.00	736.6	29.75	755.7	57.9	14.4	74	w.	11.2	5.0	.....	.....	10	.....	.....	0.079	2.0	.....	Dr. Wierzbiski.
Eperies	28.87	733.2	29.72	754.8	64.4	18.0	63	calm	.....	.....	0	0	7 ks	.....	se.	0.016	0.4	.....	Julius Mikolik.
Gratz	28.65	727.7	29.85	758.1	71.2	21.8	69	nw.	.....	.....	5	.....	5	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.39	721.2	29.77	756.2	67.5	19.7	92	nw.	.....	.....	4	.....	7	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.62	726.9	29.94	760.4	59.4	15.2	80	wsw.	.....	.....	1	.....	9	.....	.....	0.319	8.1	raining	The Staff.
Lemberg	28.72	729.6	29.69	754.0	62.6	17.0	66	nw.	.....	.....	4	.....	7	.....	.....	0.012	0.3	.....	Dr. T. Stanecki.
Pola	29.71	754.6	29.82	757.3	79.5	26.4	54	wnw.	.....	.....	3	.....	4	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.28	743.6	29.72	755.0	60.3	15.7	77	nw.	.....	.....	1	.....	9	.....	.....	0.020	0.5	.....	Joseph Midlinszay, S. J.
Szegedin	29.56	750.9	29.84	757.8	69.4	20.8	46	w.	.....	.....	4	.....	6	.....	.....	0	0	.....	Karl Stancel.
Trieste	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Royal Academy.
Vienna	29.19	741.5	29.89	759.3	61.9	16.6	60	w.	.....	.....	2	.....	10	.....	.....	0.094	2.4	.....	I. R. Central Met. Obs'y.
BRITISH.																			
Aberdeen	30.10	764.5	30.20	767.1	59.6	15.3	64	nw.	8	3.6	.....	.....	7	.....	.....	0	0	d. clouds	W. Boswell
Armagh, Observatory	30.03	762.7	30.26	768.6	62.9	17.2	77	w.	1	0.4	.....	.....	10	.....	.....	.....	.....	gloomy	S. Call.
Bidston, Liverpool Obs'y	.....	.....	30.23	767.8	59.0	15.0	73	wnw.	16	7.2	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.62	752.3	30.16	766.1	62.4	16.9	75	nw.	12	5.4	.....	.....	4	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.77	756.1	30.17	766.3	66.0	18.9	58	w.	.....	.....	1	.....	4	.....	.....	0	0	d. clouds	J. McLandsborough.
Bridgetown, Barbadoes	30.02	762.5	30.05	763.3	84.0	28.9	64	ne.	.....	.....	3	.....	6	.....	.....	.....	.....	gloomy	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	30.10	766.1	69.0	20.6	67	nw.	.....	.....	0.6	.....	8	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	30.02	762.5	30.15	765.8	67.4	19.7	64	nw.	.....	.....	1	.....	8	.....	.....	.....	.....	gloomy	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	30.00	762.0	30.23	767.8	65.5	18.6	82	sse.	.....	.....	1	.....	3	.....	.....	.....	.....	foggy	The Staff.
Fort Napier, Natal	27.80	706.1	30.01	762.2	79.6	26.4	23	calm	.....	.....	0	.....	0	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.73	755.1	29.96	761.0	82.0	27.8	55	sw.	.....	.....	6	.....	7	.....	.....	.....	.....	d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.80	759.2	29.95	760.7	77.0	25.0	81	w.	.....	.....	4	.....	0	.....	.....	.....	.....	.....	Corpl. F. Norris, A. H.C
Glasgow, Observatory	29.98	761.5	30.19	766.8	62.8	17.1	69	wnw.	.....	.....	3	.....	3	.....	.....	.....	.....	misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.99	761 7	30.16	766.1	69.7	20.9	60	n.	.....	.....	1	.....	9	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.92	760.0	30.21	767.3	65	18.3	78	n.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.14	765.5	30.17	766.3	67.4	19.7	54	nw.	12	5.4	.....	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.92	760.0	30.17	766.3	67.7	19.8	62	nw.	.....	.....	1	.....	8	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.76	755.9	29.84	757.9	80.2	26.8	74	nw.	.....	.....	3	.....	1	.....	.....	.....	.....	blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.12	765.0	30.16	766.1	84.2	29.0	74	n.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.64	752 8	30.16	766.1	63.0	17.2	69	nnw.	.....	.....	2	.....	5	.....	.....	.....	.....	d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.96	761.0	30.18	766.6	66.1	18.9	68	n.	.....	.....	3	.....	3	.....	.....	.....	.....	blue sky	The Staff.
Plymouth	30.13	765.3	30.20	767.1	71.0	21.7	69	sw.	.....	.....	1	.....	2	.....	.....	.....	.....	misty	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	30.18	766.6	57.3	14.1	77	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	hailing	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.72	754 9	29.78	756.4	85.0	29.4	41	ne.	.....	.....	2	.....	1	.....	.....	.....	.....	blue sky	W. H. Lyne.
Sheffield	29.91	759.7	30.18	766.6	69.0	20.6	65	nw.	.....	.....	1	.....	5	.....	.....	0	0	d. clouds	W. F. Cooper.
Siloth Rectory	30.17	766.3	30.20	767.1	65.6	18.7	65	calm	.....	.....	0	.....	8	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	30.22	767.6	64.0	17.8	65	wsw.	10	4.5	.....	.....	10	.....	.....	.....	.....	d. clouds	I. New.
Stratfield Turgiss	.....	.....	.....	.....	69.6	20.9	60	nw.	.....	.....	4	.....	2	.....	.....	.....	.....	d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.21	767.3	30.22	767.6	75	23.9	64	nw.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	W. Newcombe.
Valencia, Observatory	30.22	767.6	30.25	768.3	64.9	18.3	83	wsw.	5	2.2	.....	.....	9	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
CANADIAN.																			
Bathurst, N. B.	29.86	758.4	29.90	759.4	68	20.0	89	s.	8	3.6	.....	0	0	.....	.....	0	0	clear	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.79	756.7	29.85	758.2	61	16.1	100	s.	3	1.3	.....	2 k	fg.	s.	.....	0	0	foggy	H. J. Cundall, C. E.
Chatham, N. B*	29.07	753.0	29.69	754.1	70	21.1	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	G. A. Blair.
Father Point, Quebec*	29.34	745.2	30.17	766.3	48	8.9	93	nw.	4	1.8	.....	0	0	.....	.....	0.06	1.5	clear	J. McWilliams.
Fort Garry, Manitoba*	29.85	758.2	29.97	761.2	63	17.2	97	se.	3	1.3	.....	.....	fg.	.....	.....	0	0	foggy	James Stewart.
Halifax, N. S*	29.53	750.0	29.84	757.9	75	23.9	90	sw.	8	3.6	.....	5 ck	2 s	sw.	sw.	inap.	inap.	fair	A. Allison.
Kingston, Ontario*	29.59	751.6	29.79	756.7	74	23.3	79	w.	16	7.2	.....	.....	10 n	.....	w.	inap.	inap.	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.17	740.9	29.84	757.9	70	21.1	94	s.	5	2.2	.....	2 k	8 ks	sw.	sw.	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.24	742.7	29.90	759.4	72	22.2	95	calm	0	0	.....	3 c	0	w.	.....	0.01	0.3	fair	Rev. R. Mosley.
Port Dover, Ontario	29.31	744.5	29.93	760.2	71	21.7	97	w.	2	0.9	.....	5 ck	0	w.	.....	inap.	inap.	fair	H. Morgan.
Port Stanley, Ontario	29.50	749.3	29.80	756.9	71	21.7	90	calm	.....	.....	0	.....	8 n	.....	nw.	0.10	2.5	cloudy	M. Payne.
Quebec, Quebec*	29.33	745.0	29.76	755.9	70	21.1	84	calm	0	0	.....	2 ck	0	sw.	.....	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.17	740.9	29.85	758.2	68	20.0	100	sw.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog	W. H. McIntyre.
Saugeen, Ontario*	29.87	758.7	29.92	760.0	60	15.6	94	calm	0	0	.....	.....	fg.	.....	.....	0.09	2.3	foggy	
St. Andrews, N. B	29.92	760.0	29.98	761.5	64	17.8	87	s.	4	1.8	.....	.....	10 n	.....	.....	0	0	cloudy	T. C. Hill, C. E
Sydney, C. B*	29.51	749.5	29.87	758.7	71	21.7	90	sw.	3	1.3	.....	3 cs	0	w.	.....	0.92	23.4	fair	Magnetic Observatory.
Toronto, Ontario*	29.92	760.0	29.99	761.7	60	15.6	100	s.	4	1.8	.....	.....	fg.	.....	.....	0	0	foggy	Lt. F. E. Wilmot, R N.
Yarmouth, N. S*																			
Sub-series.																			
Mount Forest	28.62	726.9	30.04	763.0	66.8	19.3	100	wnw.	.....	.....	2	.....	fg.	.....	.....	0.074	1.9	dense fog	Wm. Wylie.
St. Johns, Newfoundland	29.96?	761.0?	30.21?	767.3?	57	13.9	94	se.	.....	.....	.....	10	.....	.....	.....	0	0	.....	John Delany.
CAPE COLONY.																			
Cape St. Francis Lt. House	30.22	767.6	30.24	768.1	62	16.7	80	wsw.	14.7	6.6	.....	0	6 ks	.....	.....	0	0	hazy	C. Hansen.
Cape Town, C. G. H. Obs'y	30.19	766.8	30.22	767.6	60.5	19.2	76	nw.	12	5.4	.....	9	8	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.88	759.0	29.91	759.6	72.5	22.5	91	e.	4.0	1.8			7			0.016	0.4	very cloudy	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.78	756.5	29.83	757.7	65.8	18.8	60	nnw.	11	5			8						Oversergent Fischer.
Fanöe	29.92	759.9	29.94	760.4	61.7	16.5	62	nw.			6		7						Overloerer Lauridsen
Godthaab, Greenland	29.74	755.4	29.78	756.5	43.0	6.1	88	ssw.			4		10			0	0		S. Kleinschmidt.
Ivigtut	29.80	757.0	29.82	757.5	44.2	6.8		calm			0		10					raining	
Stykkisholm, Iceland	29.75	755.6	29.79	756.7	51.4	10.8	79	nw.			2		2						A. O. Thorlacius.
Thorshavn	30.03	762.7	30.06	763.6	53.6	12.0	96	w.	9	4			10					foggy	Overloerer Bergh.
Vestervig	29.82	757.4	29.91	759.7	63.3	17.4	80	nw.			2		9						Loerer Oesterboi
FRENCH.																			
Agen, Normal School	29.45	748.0	30.08	764.0	79.9	26.6	36	nnw.			1	0	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.61	752.1	30.16	766.1	67.6	19.8	74	n.			1		k			0	0		M. Nicot, Director.
Arras, Engineer School	29.90	759.4	30.15	765.8	68.4	20.2	69	nne.			1	0	5 ku			0	0	½ covered	M. Féréon, Command't.
Avignon, Normal School	29.82	757.5	29.90	759.5	81.3	27.4	41	n.			6		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.55	750.5	30.09	764.3	68.2	20.1	63	n.			1		8		nw.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.88	758.9	30.14	765.5	70.9	21.6	59	ne.			1		8		nne.	0	0	very cloudy	M. Frère Eugène Mar
Besançon, Normal School	29.11	739.4	29.98	761.5	72.0	22.2	72	ne.			1		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.82	757.3	30.06	763.6	80.6	27.0	25	n.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.53	750.0	30.06	763.6	71.6	22	45	nw.							nw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.97	761.1	30.21	767.3	74.5	23.6	60	ne.			2		0			0	0		M. de Kermaree, Dir.
Caen, Normal School	30.06	763.6	30.14	765.5	57.6	14.2	89	nnw.			1		5		n.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.78	756.3	30.09	764.3	66.6	18.9	84	ne.			4		5	ne.	ene.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.58	751.4	30.08	764.1	66.9	19.4	53	ne.			4		8			0	0	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.74	730.0	30.04	762.9	78.1	25.6	34	ne.			2	0	2 k		ne.	0	0	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.24	742.8	30.06	763.5	74.8	23.8	43	ne.					2		nne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.19	716.0	30.09	764.3	62.6	17	96	nw.			3		ku	nw.	nw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.37	695.2	29.79	756.7	77.0	25	80	n.			6	0	2 k		s.	0	0		M. Jeanginard, Director.
Gréasque, du Rhone	28.78	731.0	29.84	757.8	84.9	29.4	26	sw.			2		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.13	739.8	29.87	758.6	75.6	24.2	44	ne.			3		k		ne.	0	0		M. Ablard, Director.
Lamballe, Normal School					72.5	22.5	64	n.			2	0	2 k		n.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.50	749.3	30.04	763.1	79.7	26.5	30	n.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.09	764.4	30.19	766.8	82.4	28.0	57	ne.			1		0			0	0	clear	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.91	736.8	30.03	762.7	73.4	23.0	40	n.			2	0	2 n		n.	0	0	slightly cl'dy	M. André, Director.
Mans, Normal School	29.82	757.4	30.12	765.1	66.9	19.4	72	ne.			1		2		ene.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.61	752.1	29.87	758.7	83.8	28.8	28	wnw.			2		1		ne.	0	0		M. Stephan, Director.
Montlouis	24.89	632.3	29.74	755.3	68.9	20.5	36	n.	9.4	4.2						0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.79	756.0	29.91	759.7	87.1	30.6	44	n.			4		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.27	743.5	30.04	763.1	62.6	17.0	81	w.			2	10 ck	0			0	0	covered	M. Hasse, Director
Nantes, Observatory	30.01	762.2	30.13	765.3	76.8	24.9	46	ene.			1-3		0			0	0	clear	M. Larocque, Director.
Perpignan, Observatory	29.85	758.1	29.95	760.7	85.8	29.9	25	nw.	16.8	7.5			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.43	544.2			50.0	10.0		se.			1		0			0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.03	737.3	30.05	763.2	77.5	25.3	39	n.			4		0			0	0	clear	M. Tallien.
Puy de Dôme Obs'y, Summit	25.30	642.5			51.8	11.0	77	nne.			3		2			0.004	0.1	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.08	764.0	30.11	764.8	81.7	27.6	100	nne.			1		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.91	759.6	30.11	764.8	74.7	23.7	61	se.			1		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	27.97	710.3	30.01	762.3	76.3	24.6	32	nw.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.13	765.2	30.17	766.4	71.2	21.8	63	ne.			2		5	e.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.96	761.0	30.13	765.2	71.8	22.1	54	n.			2		10		n.	0	0		M. Renou, Director.
Toulouse, Observatory	29.39	746.4	30.11	764.8	80.6	27.0	32	n.			2		0			0	0	clear	M. Baillaud, Director.
Tours	29.93	760.1	30.10	764.6	77.4	25.2	47	nw.			1		2 k	ne.	ne.	0	0	slightly cl'dy	M. de Tastes.
Versailles, Observatory	29.63	752.5	30.12	765.0	71.6	22.0	55	n.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.84	758.0	30.13	765.4	71.1	21.7	55	nne.			2		8		n.	0	0		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.54	724.9	29.97	761.3	56.8	13.8	87	calm			0		10	n.		0.012	0.3		Prof. Jnedt.
Bamberg	29.15	740.5	30.00	762.1	61.7	16.5	66	nw.			2	0	9 n		nw.	0.020	0.5	light rain	Prof. Dr. Hoh.
Berlin	29.68	753.9	29.85	758.3	68.2	20.1	39	n.			3		8			0.071	1.8		Prof. Dr. Arndt.
Breslau	29.23	742.4	29.75	755.7	56.5	13.6	93	nw.			3		10			0.142	3.6	light rain	Royal University Obs'y.
Carlsruhe	29.60	751.8	30.03	762.8	66.0	18.9	72	w.			1		10	nw.		0.020	0.5		Albert Senz.
Cassel	29.28	743.6	29.99	761.8	63.0	17.2	68	nw.			4		7	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.67	753.7	30.03	762.7	68.0	20.0	61	nw.			1		8			0	0		Physical Society.
Friedrichshafen	28.61	729.9	30.02	762.4	66.9	19.4	64	w.			3		10		w.	0	0		Wilhelm, Chief Tel.
Hamburg	29.87	758.0	29.96	761.0	64.0	17.8	67	nw.			4		5	nw.		0.008	0.2		E. Preller.
Kiel	29.90	759.4	29.91	759.8	64.4	18.0	67	nw.			4		5			0.008	0.2		Prof. Dr. G. Karsten
Leipsic, Astron'l Obs'y	29.52	749.8	29.93	760.3	64.6	18.1	53	nw.			4		7	nw.		0.150	3.8		H. Leppig, Asst.
Magdeburg	29.73	755.1	29.91	759.8	66.4	19.1	57	wnw.			3	0	5 ks		nw.	0.020	0.5		Dr. Assmann.
Memel	29.64	752.8	29.69	754.0	62.2	16.8	79	nw.			4	6 ck	0						Issermann.
Munich	28.22	716.9	30.09	764.3	56.7	13.7	83	nw.			2		9	nw.		0.138	3.5		Dr. C. Lang.
Neufahrwasser	29.72	755.0	29.74	755.4	63.3	17.4	68	nne.			1		4			0.063	1.6		A. Lothes.
Neustadt, Palatinate	29.47	748.5	29.98	761.6	66.7	19.3	65	w.			1		8	w.		0	0		Dickuether.
Stuttgart	29.08	738.6	29.96	760.9	64.0	17.8	68	w.			3		8	nw.		0	0		Prof. Dr. Schoder.
Wustrow	29.89	759.2	29.92	759.9	63.7	17.6	75	wnw.			4	0	8			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.39	746.6	29.76	755.9	83.8	28.8		ne.			1 0		6			0	0		Schmidt & Wourlisch
INDIAN.																			
Kurrachee	29.46	748.2	29.51	749.5	84.0	28.9	75	sw.	32.0	14.3			6		w.	0	0	d. clouds	
Deesa	29.02	737.2	29.49	749.0	83.4	28.6	68	ssw.	20.0	8.9			7		sw.	0.04	1.0	d. clouds	
Bombay	29.67	753.6	29.71	754.6	80.4	26.9	85	sw.	17.0	7.6			10		w.	0.05	1.3	overcast	
Poona, Yarrowda	27.84	707.1	29.70	754.4	74.8	23.8	77	w.	32.0	14.3			10		w.	0.09	2.3	overcast	
Trichinopoly	29.52	749.7	29.79	756.8	85.6	29.8	51	nw.	5.0	2.2			10			0	0	overcast	
Bellary	28.26	717.8	29.73	755.2	76.8	24.9	77	w.	13.7	6.1			10	sw.		0.03	0.8	gloomy	
Belgaum	27.22	691.5	29.79	756.6	68.8	20.4	95	sw.	12.0	5.4			10		sw.	1.11	28.2	showery	
Lahore	28.59	726.1	29.30	744.2	92.9	33.8	56	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.44	722.2	29.30	744.3	87.0	30.6	72	calm	1.1	0.5			9			0.01	0.3		
Agra	28.93	734.7	29.48	748.6	86.2	30.1	62	sw.	6.0	2.7			8		w.	0	0	d. clouds	
Nagpur	28.54	724.8	29.56	750.9	83.2	28.4	65	wsw.	6.0	2.7			10		w.	0	0	overcast	
Jubbulpore	28.20	716.2	29.54	750.4	79.2	26.2	70	calm	6.0	2.7			10		n.	0	0	overcast	
Lucknow	29.65	737.9	29.42	747.2	86.5	30.3	67	wsw.	5.4	2.4			10	ene.		0	0	overcast	
Allahabad	29.12	739.7	29.43	747.4	86.4	30.2	65	sw.	8.0	3.6			3		sw.	0	0	d. clouds	
Patna	29.27	743.4	29.45	748.0	86.6	30.3	67	nw.	4.9	2.2			6	nw.	nw.	0.03	0.8	d. clouds	
Hazaribagh	27.49	698.2	29.47	748.4	80.6	27.0	71	wnw.	12.2	5.4			10			0.07	1.8	showery	
Cuttack	29.46	748.3	29.54	750.4	83.0	28.3	82	wsw.	4.0	1.8			5			0.03	0.8	d. clouds	
Calcutta, Alipore	29.46	748.2	29.48	748.7	81.0	27.2	85	w.	4.0	1.8			10			0.33	8.4	overcast	
Dhubri	29.34	744.2	29.46	748.2	78.8	26.0	96	ne.	8.4	3.8			10			0.53	13.5	overcast	
Chittagong	29.43	747.5	29.52	749.7	78.5	25.8	97	se.	4.8	2.2			10			0.15	3.8	overcast	
Sibsagar	29.15	740.5	29.48	748.9	82.8	28.2	81	ne.	2.0	0.9			10	w.	w.	0.43	10.9	d. clouds	
Teypore	28.02	711.6	29.43	747.4	85.0	29.4	55	w.	8.1	3.6			7		w.	0	0	d. clouds	
Zanzibar, Africa	30.07	763.8			76.8	24.9	73	s.	9.7	4.4			8		sse.	0	0	gloomy	
ITALIAN.																			
Udine	29.47	748.6	29.87	758.6	81.1	27.3	31	s.	1.8	0.8			5			0	0		Prof. Giovanni Godig.
Milan	29.34	745.1	29.83	757.6	82.2	27.9	37	s.	6.3	2.8			2			0	0		Prof. Schiaparelli.
Padua	29.71	754.6	29.82	757.3	80.4	26.9	33	sse.	1.8	0.8			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.01	739.9	29.88	758.9	82.0	27.8	35	sw.	4.3	1.9			0			0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Genoa	29.65	753.1	29.84	757.8	84.2	29.0	22	n.	3.8	1.7			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.00	711.2	29.83	757.6	76.3	24.6	30	w.			2		0			0	0		Prof. D. C. Bruno
Pesaro	29.78	756.5	29.83	757.7	75.6	24.2	64	ne.	12.5	5.6			0			0	0		Prof. Luigi Guidi.
Florence	29.55	750.6	29.80	756.8	83.1	28.4	26	sw.			2		3			0.173	4.4		Prof. Costantino Pit er
Leghorn	29.72	754.8	29.80	756.9	79.2	26.2	60	nw.	4.9	2.2			4			0	0		Prof. P. Monte.
Rome	29.62	752.3	29.78	756.5	86.7	30.4	35	wsw.	10.5	4.7			2			0	0		Prof. P. Tachini.
Lecce	29.57	751.0	29.81	757.1	76.8	24.9	61	ne.	11.2	5.0			5	ne.		0.079	2.0		Prof. C. de Giorgi
Cosenza	28.93	734.9	29.78	756.5	85.3	29.6	74	sw.	3.1	1.4			4	s.		0	0		Prof. D. Conti.
Cagliari	29.60	753.4	29.85	758.1	83.7	28.7	35	nw.			4		3	w.		0	0		Prof. A. Pacinotti.
Palermo	29.62	752.3	29.86	758.4	80.2	26.8	53	nw.	18.1	8.1			5	nw.		0	0		Prof. G. Ciacciatore.
Syracuse	29.74	755.5	29.79	756.6	80.6	27.0	68	ne.	3.1	1.4			3	w		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.29	744.0	29.79	756.7	82.4	28.0	54	sw.	7.4	3.3			3	w.		0	0		Prof. T. Brioschi.
Stelvio	22.22	564.5			44.4	6.9	53	e.			2		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.27	565.8			55.6	13.1	52	n.			2		3			0	0	clear.	Prof. P. F. Denza.
JAPANESE.																			
Awomori	30.05	763.3	30.08	764.0	75.4	24.1	94	calm	0	0		0	7 s;ks			1.218	30.9	cloudy	K. Ogawa.
Hakodate	30.03	762.7	30.04	763.0	76.2	24.6	82	ssw.	12.0	5.4			10			0	0	covered,	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.95	760.7	30.12	765.0	79.4	26.3	85	e.	0.9	0.4		0	8s;ck			0	0	cloudy,	M. Fojima.
Nagasaki, I. M. Obs'y	29.81	757.2	30.01	762.1	79.0	26.1	88	ese.	5.1	2.3		0	2 s			0.110	2.8	clear	
Nemuro	30.05	763.3	30.11	764.8	69.0	20.5	93	sw.	6.0	2.7		9	0			0	0	cloudy,	
Niigata	30.06	763.5	30.09	764.3	80.7	27.1	85	ene.	2.3	1.1			10 ck			0	0	overcast	M. Morita.
Nobiru	30.10	764.5	30.12	764.9	73.6	23.1	92	sse.	7.5	3.4			10 s			0.005	0.1	covered	H. Midzushima.
Osaka	30.08	764.0	30.09	764.3	78.5	25.8	91	nw.	4.3	1.9		0	0 s;cs			0.100	4.8	fair	
Supporo					71.7	22.1	97	se.	12.0	5.4			10					raining	
Tokei Obs'y, Yeddo	30.08	764.1	30.16	766.0	77.2	25.1	90	s.	12.6	5.6		3 cs	0	nw.		0	0	fair	The Staff.
Wakayama	30.07	763.8	30.12	765.0	78.1	25.6	86	ssw.	13.0	5.8		0	0			0	0	clear	Y. Kuwamuea
MAURITIUS.																			
Mauritius Observatory	30.00	762.0	30.19	766.8	72.0	22.2	67	se.	16.6	7.4		0	4k;ks;n		se.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.4	29.94	760.4	58.8	14.9	98	calm	0	0			10 k;ku			1.300	33.0	raining	Prof. Vicente Fernandez.
Leon.†	24.37	619.0	30.07	763.8	59.2	15.1	95	ne.			1		10 n		ne.	1.221	31.0	covered	Prof. M. Leal.
Mazatlan	29.70	754.3	29.95	760.8	76.5	24.7	95	ene.	0.9	0.4			10 n		se.	0.532	13.5	rainy	F. Quijano, C. E.
Mexico, Central Obs'y	23.14	587.6	30.14	765.6	55.9	13.3	83	calm			0		10 kn			0.221	5.6	covered	The Staff.
Morelia	24.20	614.6	30.23?	767.0?	59.7	15.4	51	ne.			3	1	1	s.	se.	0	0		M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Puebllon, Aguascalientes	23.97	608.8	29.95	760.7	60.1	15.6	95	calm			0		10 kn		ne.	0.800	20.2	covered	M. V. de Leon, M. E
Puebla, Catholic Institute	23.44	595.4	30.15?	765.5?	57.6	14.2	93	calm			0	0	0			0.319	8.1	clear	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	22.59	573.8	30.28?	766.8?	58.5?	13.4?	70	ne.	8.7	3.9		5 k	3 k	n.	e.	0.432	11.0	foggy	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.15	765.7	30.15	765.7	67.3	19.6		nnw.			3					0	0		
Groningen	29.97	761.2	30.02	762.6	61.5	16.4		n.			2					0.067	1.7		
Helder	30.08	764.1	30.08	764.1	60.8	16.0		nnw.			3					0	0		
Hellevoetsluis	30.11	764.7	30.11	764.7	67.6	19.8	66	nw.			2					0	0		
Utrecht	30.06	763.6	30.11	764.8	61.9	16.6	88	nnw.			2		8			0.071	1.8	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.90	759.5	29.97	761.1	59.7	15.4	66	wnw.	9	4			4			0	0		
Brono	29.87	758.8	29.91	759.8	60.1	15.6	81	sw.	9	4			10			0	0		
Christiania	29.67	753.5	29.80	757.0	72.0	22.2	65	sw.	4	2			5			0	0		
Gjæsvær	29.89	759.3	29.92	759.9	48.2	9.0		nne.			2		10					foggy	
Lodingen	29.84	757.9	29.89	759.1	65.3	18.5	78	ne.			2		7			0	0		
PORTUGUESE.																			
Angra, Azores					75.2	24.0	85	se.	3.1	1.4			2			0	0		Dr. J. A. Sampaio
Campo Major	28.93	734.9	29.87	758.8	88.0	31.1	27	sse.	3.8	1.7			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.99	761.8	30.08	764.0	73.4	23.0	59	sw.	3.8	1.7			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.63	752.6	29.98	761.5	70.7	21.5	58	sw.	13.6	6.1			2			0	0		The Staff.
Ponta Delgada, Azores	30.16	766.1	30.23	767.9	77.0	25.0	71	w.	5.6	2.5			4			0	0		
Saint Paul de Loando	29.89	759.1	30.09	764.3	72.0	22.2	71	n.			1		0			0	0		
Serra da Estrella	25.35	643.8	29.86	758.5	70.7	21.5	33	sse.	15.4	6.9			1			0	0		
RUSSIAN.																			
Akmolinski	28.50	723.9	29.50	749.3	82.8	28.2	29	sw.	7	3		0	5 k			0	0	light clouds	Major K. Lasarew
Archangel	29.63	752.7	29.65	753.2	82.6	28.1	42	ene.	4	2		0	4 ks			0	0		Capt. Sseliwerstow.
Astrakhan	29.82	757.4	29.74	755.3	86.9	30.5	30	wsw.	11	5		0	8 ks			0	0		Capt. Wisganow.
Barnaul	29.08	738.6	29.54	750.4	80.6	27.0	35	n.	2	1			6			0	0	light clouds	Meteorological Obs'y.
Dorpat	29.23	742.4	29.40	748.2	72.1	22.3	77	ene.	9	4			9 k			0	0		Observatory.
Ekaterinburg	28.45	722.5	29.35	745.6	69.4	20.8	58	calm	0	0		c;ck	8 ks			0.051	1.3		Meteorological Obs'y.
Irkutsk																			
Kasan																			
Kertch	29.11	739.5	29.37	746.0	63.3	17.4	91	se.	2	1			10 n			0.740	18.8	raining	Observatory.
Kieff	29.67	753.7	29.69	754.2	75.0	24.2	51	w.	4	2		0	7 n			0	0		Lagorio & Sastyrez.
Lugan	28.88	733.5	29.49	749.0	63.7	17.6	45	wnw.	20	9		cs	10s;ks;n						Observatory.
Moscow	29.32	744.8	29.52	749.8	71.4	21.9	44	wsw.	34	15			7			0	0		Meteorological Obs'y.
Nikolaiev	28.64	727.5	29.09	738.8	60.0	18.9	67	sw.	22	10		0	7 ks						Meteorological Obs'y.
Nikolaievsk, on the Amoor	29.65	753.0	29.72	754.8	73.4	23.0	41	w.	13	6		0	4 kn			0	0		Capt. Kurdakow.
Pekin, China																			Lieut. Iwanow.
St. Petersburg	29.66	753.4	29.80	757.0	83.7	28.7	56	calm	0	0		0	0			blank	blank		Physical Observatory.
Semipalatinsk	29.47	748.5	29.48	748.9	78.3	25.7	45	ene.	13	6		1 cs	0			0.060	21.0	light clouds	Central Physical Obs'y.
Tashkend, Laboratory	28.99	739.3	29.60	751.7	83.1	28.4	28	nw.	9	4			2			0	0		Major Lasarew
Tiflis	27.97	710.3	29.41	746.9	89.2	31.8	44	calm	0	0			0			0	0		Teich, A. M.
Vladivostock	28.33	719.5	29.64	752.9	90.5	32.5	34	nw.	4	2		4 cs	0			0.010	0.4		Physical Observatory.
Warsaw	29.86	758.4	29.93	760.1	72.3	22.4	70	calm	0	0		0	0						
Wilna	29.24	742.7	29.65	753.1	63.0	17.2	72	w.	2	1		cs	10 ks						Astronomical Obs'y.
Yeniseisk	29.11	739.5	29.52	749.7	65.5	18.6	61	nnw.	11	5			10			0.224	5.7		Berg, Assistant.
SCOTTISH.	29.56	750.7	29.83	757.7	70.5	21.4	67	calm	0	0			0			0	0		M. C. Marks.
Monach Lt			30.18	766.6	60	15.6	94	sw.			0		10			0.1	3.	raining	J. Youngclause.
North Unst			30.06	763.5				nw.			4		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.84	757.8	29.93	760.3	82.4	28.0	68	s.	2.2	1.0		0	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.03	762.7	30.09	764.2	84.6	29.2	35	se.	2.5	1.1		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.11	688.7	29.96	760.9	74.8	23.8	40	ne.	5.8	2.6		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.78	705.5	29.85	758.1	91.9	33.3	29	se.	6.5	2.9		1	0			0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.82	757.3	29.96	760.9	85.6	29.8	67	ne.	4.3	1.9		2	4	wsw.		0	0	clouds	Olayo Diaz, Director
Oviedo	29.25	743.0	30.11	764.9	69.8	21.0	59	nw.	4.6	2.1		0	0			0	0	clear	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.02	737.2	29.86	758.5	80.2	31.8	36	calm	0	0		0	0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.03	762.7	30.09	764.3	76.5	24.7	86	e.	1.8	0.8		1 c	k	e.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.70	756.0	29.82	757.5	77.3	25.2	92	wsw.	14.7	6.6		10 n			sw.	0.709	18.0	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.90	759.5	30.00	761.9	76.3	24.6	60	w.	6.3	2.8		0	1		sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.96	761.0	30.05	763.3	81.3	27.4	97					0	2 k		e.	0.008	0.2	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.63	752.6	29.76	755.9	78.1	25.6	92	se.	2.5	1.1			10 n			0.45	11.4	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.76	756.0	29.80	757.0	77.0	25.0	58	ne.			2		8			0	0		
Umea	29.75	755.6	29.80	756.9	77.7	25.4	51	ne.			4		5			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Hernosand	29.74	755.3	29.79	756.6	69.1	20.6	76	calm			0		10			0	0		
Stockholm	29.48	748.8	29.66	753.3	61.5	16.4	95	nnw.			4		10			0.024	0.6		
Wisby	29.60	751.7	29.65	753.2	59.4	15.2	83	nnw.			6		10			0	0		
Sub-series.																			
Upsala	29.58	751.4	29.67	753.6	60.3	15.7	98	n.	14.5	6.5			10			0.161	4.1		S. G. Fineman.
SWISS.																			
Geneva	28.63	727.3	30.01	762.3	71.2	21.8	46	nnw.			4		0			0	0	clear	The Observatory
TURKISH.																			
Constantinople			29.83	757.7	76.8	24.9	43	ene.	17	7.5			1		ne.	0	0		The Observatory.
Valona			29.97	761.1	80.2	26.8		w.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.71	754.5	87.4	30.8	58	w.			2	0	4 k		ssw.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.84	757.9	29.92	760.0	78	25.6	69	s.	4	1.8			10 s		sw.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.22	742.2	29.86	758.4	69	20.6	93	w.	2	0.9		0	5 s			0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.15	638.8	29.87	758.7	64	17.8	65	e.	2	0.9		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.43	696.7	30.18	766.6	66	18.9	84	ne.	12	5.4			10 s		ne.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.98	736.1	30.13	765.3	76.5	24.7	82	w.	7	3.1		1 k	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	29.95	760.7	29.96	761.0	75.6	24.2	90	s.	5	2.2			10 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.92	760.0	30.11	764.8	79	26.1	82	calm	0	0		0	0			0	0	clear	John Healy.
Baltimore, Maryland	29.93	760.2	29.98	761.5	76	24.4	85	s.	4	1.8		2 cs	hz.			0	0	clear	Robert Seyboth.
Barnegat, New Jersey	29.91	759.7	29.93	760.2	76.0	24.4	90	w.	12	5.4			10 s			0	0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.57	725.7	30.11	764.8	63	17.2	84	nw.	1	0.4		1 c	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.45	697.2	30.24	768.1	68	20.0	90	ne.	2	0.9		0	7 s			0	0	fair	S. Wheaton.
Behring Island, Behring Sea	29.85	758.2	29.87	758.7	53.3	11.8		e.	2	0.9		0	2 ks		e.	0.05	1.3	clear	Dr. L. Steineger.
Bismarck, Dakota	28.39	721.1	30.14	765.5	69	20.6	76	e.	10	4.5			10 s			0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.94	760.5	29.97	761.2	73	22.8	84	sw.	12	5.4		0	7 ks		w.	0	0	fair	J. T. Elker.
Boise City, Idaho	27.15	689.6	29.90	759.4	68	20.0	44	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.83	757.7	29.98	761.5	73.0	22.8	82	se.	12	5.4		6 c	hz.	w.		0	0	fair	O. B. Cole.
Brownsville, Texas	29.97	761.2	30.01	762.2	76.2	24.6	90	calm	0	0			10 s		s.	0.91	23.1	cloudy	M. McCarty.
Buffalo, New York	29.18	741.2	29.91	759.7	73.4	23.0	91	s.	10	4.5		3 ck	6 s	w.	sw.	0	0	cloudy	Clarence Weaver.
Buford, Fort, Dakota	28.22	716.8	30.16	766.1	66	18.9	75	e.	10	4.5		5 cs	0	calm		0	0	fair	A. H. Bell.
Burlington, Vermont	29.57	751.1	29.86	758.4	78.0	25.6	64	s.	12	5.4		2 ck	8 s	w.	sw.	0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.68	753.9	30.07	763.8	72.8	22.7	92	sw.	7	3.1		10 c	0	sw.		0.07	1.8	cloudy	W. H. Ray.
Campo, California	27.43	696.7	29.93	760.2	54	12.2	69	w.	3	1.3		6 c	0	s.		0	0	fair	W. H. Clendenon
Cape Henry, Virginia	29.97	761.2	29.99	761.7	78	25.6	82	s.	4	1.8		3 c	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.94	760.5	29.97	761.2	76.0	24.4	88	s.	5	2.2			10 s		se.	0	0	cloudy	W. E. Smith.
Cape Mendocino	29.44	747.8						n.	8	3.6			10 ks		n.	0	0	cloudy	J. R. Williams.
Cedar Keys, Florida	30.14	765.5	30.16	766.1	80	26.7	79	nw.	9	4.0		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.21	741.9	30.00	762.0	68.3	20.2	83	w.	6	2.5		6 c	0	sw.		0.37	9.4	fair	L. A. Welsh.
Charleston, S. Carolina	30.01	762.2	30.06	763.5	82	27.8	74	w.	7	3.1		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.19	741.4	30.02	762.5	81.0	27.2	69	sw.	1	0.4		0	hz.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.32	744.7	30.13	765.3	73.5	23.1	86	sw.	3	1.3		3 cs	fg.			0.05	1.3	clear	B. L. Goulding.
Cheyenne, Wyoming	24.32	617.7	30.02	762.5	50.3	10.2	68	w.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.28	743.7	29.97	761.2	68.3	20.2	96	n.	4	1.8			fg.			inap.	inap.	dense fog	J. Mitchell.
Chincoteague, Virginia	29.96	761.0	29.98	761.5	76	24.4	97	se.	3	1.3		0	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.38	746.2	30.02	762.5	77	25.0	82	sw.	3	1.3		6 c;k	0	sw.		0	0	fair	J. F. Harrold.
Cleveland, Ohio	29.25	742.9	29.97	761.2	72.3	22.4	85	s.	3	1.3		7 c;ck	0	w.		0.83	21.1	fair	J. B. Newlin.
Coleman City, Texas	28.29	718.6	30.03	762.7	68	20.0	93	s.	2	0.9		0	8 s		s.	0.01	0.3	cloudy	L. Dorman.
Columbus, Ohio	29.16	740.7	30.00	762.0	73	22.8	84	sw.	2	0.9		10 cs	0	sw.		0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.15	715.0	30.01	762.2	67	19.4	90	e.	4	1.8		0	1 s			0	0	clear	W. W. McConihe.
Custer, Fort, Montana	27.02	686.3	30.08	764.0	64	17.8	78	nw.	2	0.9		0	4 s		calm	0	0	fair	W. B. Lamar.
Davenport, Iowa	29.36	745.7	29.99	761.7	68	20.6	90	ne.	1	0.4		0	hz.		calm	0.01	0.3	clear	R. R. Martin.
Davis, Fort, Texas	25.27	641.8	29.92	760.0	68	20.0	63	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.19	716.0	29.89	759.2	60.5	15.8	68	n.	2	0.9		2 c	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.62	650.7	30.05	763.3	58	14.4	77	sw.	4	1.8		1 c	0			0	0	clear	G. W. Scott.
Decatur, Texas					78	25.6	54	s.	2	0.9		0	3 s			0.09	2.3	clear	D. J. Carr.
Delaware Breakwater, Del.	29.97	761.2	29.99	761.7	74	23.3	97	s.	6	2.7		2 cs	0	s.		0	0	clear	T. S. Townsend.
Denison, Texas	29.31	744.5	30.09	764.3	68.3	20.2	93	s.	3	1.3		3 cs	0			0.29	7.4	clear	J. McGlone.
Denver, Colorado	24.99	634.7	30.01	762.2	64.0	17.8	54	nw.	4	1.8		1 c	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.17	740.9	30.05	763.3	66	18.9	90	calm	0	0		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.26	743.2	29.94	760.5	72.0	22.2	84	sw.	5	2.2		7 c;cs	0	nw;c		0	0	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.54	699.5	30.02	762.5	66	18.9	84	n.	10	4.5		1 k	0	n.		0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.31	744.5	30.00	762.0	66.3	19.1	90	calm	0	0		0	fg.			0.06	1.5	clear	J. Harvey Smith.
Duluth, Minnesota	29.26	743.2	29.98	761.5	74	23.3	71	nw.	8	3.6		0	5 k		nw.	0.02	0.5	fair	N. B. Conger.
Eagle Pass, Texas	29.26	743.2	30.05	763.3	74.1	23.4	90	calm	0	0		0	7 s			inap.	inap.	fair	F. Belford.
Eagle Rock, Idaho	25.42	645.7	29.97	761.2	70	21.1	26	n.	8	3.6		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.83	757.7	29.90	759.4	60.0	15.6	75	s.	8	3.6			fg.		s.	0	0	light fog	D. C. Murphy.
Elliott, Fort, Texas	27.32	693.9	29.96	761.0	61	16.1	84	nw.	4	1.8		6 k	0	nw.		0.28	7.1	fair	W. J. Cundall.
El Paso, Texas	26.32	668.5	29.92	760.0	70	21.1	62	ne.	5	2.2		0	2 s			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.23	742.4	29.94	760.5	73	22.8	97	sw.	3	1.3		3 c	5 s		sw.	0.48	12.2	cloudy	Peter Wood.
Escanaba, Michigan	29.22	742.2	29.86	758.4	69	20.6	90	calm	0	0		4 c	5 s	w.	sw.	0.09	2.3	cloudy	George Heathcote.
Fredericksburg, Texas	28.38	720.8	30.09	764.3	74	23.3	88	calm	0	0		0	5 s			0.09	2.3	fair	Frank Halwegler.
Galveston, Texas	30.04	763.0	30.09	764.3	78	25.6	88	se.	4	1.8		8 cs	fg.			3.01	76.5	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.29	744.0	29.94	760.5	70.5	21.4	90	sw.	1	0.4		8 k	0	sw.		0	0	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.31	642.9	29.88	758.9	64.4	18.0	93	ne.	4	1.8		1 cs	1 s			0.21	5.3	clear	Robert O. Lord.
Hatteras, North Carolina	29.98	761.5	30.00	762.0	78	25.6	90	ne.	10	4.5		hz.	0			0	0	clear	R. M. Crawford.
Helena, Montana	26.07	662.2	30.16	766.1	71	21.7	68	w.	4	1.8		10 ck	0	sw.		0.10	2.5	cloudy	N. C. Smith.
Henrietta, Texas	29.15	740.4	30.15	765.8	70.0	21.1	100	nw.	5	2.2		0	6 s			0.89	22.6	fair	J. W. Byram.
Huron, Dakota	28.75	730.2	30.09	764.3	63.9	17.7	87	w.	3	1.3		1 k	0	w.		0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.22	742.2	29.99	761.7	74	23.3	82	sw.	3	1.3		4 c	0	w.		0	0	fair	O. Schutze
Indianola, Texas	30.05	763.3	30.08	764.0	75.4	24.1	90	sw.	5	2.2			10 n		s.	0.60	15.2	heavy rain	I. A. Reed.
Jacksboro, Texas	28.92	734.6	30.04	763.0	72	22.2	84	e.	6	2.7		5 cs	0			0	0	fair	J. P. Sherry.
Jacksonville, Florida	30.09	764.3	30.13	765.3	82	27.8	74	s.	1	0.4		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.64	702.0	30.07	763.8	71	21.7	59	ne.	2	0.9		3 c	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.35	745.5	29.98	761.5	69.0	20.6	87	calm	0	0		0	fg.			0.37	9.4	light fog	F. Z. Gosewisch.
Key West, Florida	30.09	764.3	30.11	764.8	84.0	28.9	67	ne.	8	3.6		0	0			0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.00	762.0	30.02	762.5	77	25.0	85	e.	4	1.8		hz.	1 s			0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.10	739.1	30.11	764.8	72	22.2	97	sw.	1	0.4		2 c	2 k		sw.	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.21	741.9	29.96	761.0	70	21.1	84	s.	4	1.8		0	0			0	0	clear	S. O. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.20	741.7	30.06	763.5	67	19.4	93	nw.	4	1.8			fg			inap.	inap.	dense fog	A. W. Browne.
Lewiston, Idaho	29.07	738.4	29.88	758.9	73.0	22.8	80	calm	0	0		5 c	0			0	0	fair	W. Bell.
Little Rock, Arkansas	29.78	756.4	30.09	764.3	72	22.2	97	sw.	6	2.7			10 s		sw.	0.56	14.2	cloudy	W. U. Simons.
Los Angeles, California	29.61	752.1	30.00	762.0	62.1	16.7	72	e.	1	0.4			8 s		s.	0	0	cloudy	Egbert van Dyke.
Louisville, Kentucky	29.46	748.3	30.02	762.5	75	23.9	85	s.	5	2.2		5 cs	sk.			0.01	0.3	fair	H. C. Smyth.
Lynchburg, Virginia	29.32	744.7	29.99	761.7	76.5	24.7	75	w.	2	0.9		3 c	0	w.		0.03	0.8	clear	Lewis Duane.
Macon, Fort, North Carolina	29.99	761.7	30.00	762.0	81	27.2	88	se.	6	2.7		5 c	0			0	0	fair	F. P. Chaffee.
Madison, Wisconsin	29.00	736.6	29.98	761.5	68	20.0	90	w.	8	3.6		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.87	657.1			69	20.6	36	ne.	6	2.7		0	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.89	708.4	30.10	764.5	70	21.1	82	s.	3	1.3		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.24	742.7	29.94	760.5	62	16.7	87	n.	13	5.8			10 s		n.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.78	756.4	30.12	765.0	73	22.8	84	s.	4	1.8		8 cs	1 s	w.	s.	inap.	inap.	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.20	741.7	29.93	760.2	69	20.6	93	sw.	8	3.6		0	fg.			0	0	clear	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.89	683.0	30.11	764.8	61	16.1	78	sw.	1	0.4	.....	0	0	.....	.....	0.11	2.8	clear	J. H. Jones.
Mobile, Alabama	30.14	765.5	30.18	766.6	74	23.3	87	n.	2	0.9	.....	1 cs	0	.....	.....	0	0	clear	C. A. Read.
Montgomery, Alabama	29.92	760.0	30.15	765.8	74	23.3	90	sw.	3	1.3	.....	5 k	0	w.	.....	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.14	740.1	30.11	764.8	60	15.6	87	n.	12	5.4	.....	0	0	.....	.....	inap.	inap.	clear	H. Bessant.
Morgantown, W. Virginia	29.03	737.3	30.03	762.7	73.0	22.8	97	sw.	1	0.4	.....	.....	10 s	.....	w.	0	0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H	23.93	607.8	30.01	762.2	56.0	13.3	83	nw.	16	7.2	.....	9 cs	sk.	nw.	nw.	0	0	cloudy	J. G. Livsley.
Nashville, Tennessee	29.51	749.5	30.07	763.8	75.0	23.9	85	sw.	2	0.9	.....	5 ck	fg.	sw.	.....	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.84	757.9	29.95	760.7	74	23.3	90	sw.	7	3.1	.....	.....	10s;fg	.....	sw.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.93	760.2	29.98	761.5	73	22.8	97	s.	8	3.6	.....	10 k	0	.....	.....	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.09	764.3	30.14	765.5	75.3	24.1	87	e.	1	0.4	.....	4 c	sk.	w.	.....	0.28	7.1	fair	L. Dunne.
Newport, Rhode Island	29.92	760.0	29.97	761.2	73.2	22.9	84	s.	8	3.6	.....	6 c	2 s	nw.	s.	0	0	cloudy	W. McGillivray.
New York, New York	29.79	756.7	29.96	761.0	73	22.8	97	sw.	4	1.8	.....	6 cs	fg.	w.	.....	0	0	fair	J. B. Merrill.
Norfolk, Virginia	29.97	761.2	30.00	762.0	80	26.7	82	se.	2	0.9	.....	4 k	hz.	.....	.....	0	0	fair	Wm. Davis.
North Platte, Nebraska	27.28	692.9	30.08	764.0	59.6	15.3	92	e.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	E. F. Brady.
Olympia, Washington T'y	29.94	760.5	29.98	761.5	51.0	10.6	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.64	752.8	29.05	753.1	42.6	5.9	97	w.	28	12.5	.....	.....	10 s	.....	w.	0.06	1.5	cloudy	P. H. Ray.
Omaha, Nebraska	28.95	735.3	30.09	764.3	68.4	20.2	91	se.	1	0.4	.....	hz.	hz.	.....	.....	0.05	1.3	light haze	A. Pollak.
Oswego, New York	29.56	750.8	29.88	758.9	79.0	26.1	69	sw.	4	1.8	.....	4 k	0	w.	.....	0	0	fair	S. W. Beall.
Palestine, Texas	29.60	751.8	30.14	765.5	69.5	20.8	94	s.	3	1.3	.....	8 ck	0	w.	.....	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.14	765.5	30.17	766.3	79.1	26.1	85	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	29.90	759.4	30.00	762.0	76	24.4	90	sw.	3	1.3	.....	.....	10ks;hz	.....	sw.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.16	461.3	29.95	760.7	34	1.1	85	n.	7	3.1	.....	3 c	0	.....	.....	0	0	clear	L. M. Dey.
Pioche, Nevada	24.18	614.2	29.88	758.9	70.4	21.3	44	s.	7	3.1	.....	10 cs	0	s.	.....	0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.18	741.2	29.97	761.2	74.2	23.4	85	sw.	4	1.8	.....	4 c	0	sw.	.....	0.01	0.3	fair	J. B. Turton.
Poplar River, Montana	28.09	713.5	.....	.....	.....	.....	.....	sw.	.....	.....	4	0	9 s	.....	sw.	0	0	cloudy	W. D. Maxwell.
Port Eads, Louisiana	30.14	765.5	30.15	765.8	78.4	25.8	90	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	M. Hermann.
Port Huron, Michigan	29.24	742.7	29.90	759.4	70.0	21.1	92	calm	0	0	.....	5 cs	0	w.	.....	0	0	fair	W. O. Bailey.
Portland, Maine	29.81	757.2	29.86	758.4	72.0	22.2	82	sw.	3	1.3	.....	5 cs	0	.....	.....	0	0	fair	W. W. Eichelberger.
Portland, Oregon	29.87	758.7	29.94	760.5	56.0	13.3	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	M. L. Hearne.
Prescott, Arizona	24.90	632.4	29.88	758.9	65	18.3	90	sw.	1	0.4	.....	0	8 s	.....	s.	0.05	1.3	cloudy	J. Mc N. Wright.
Provincetown, Mass	29.92	760.0	29.95	760.7	70.5	21.4	90	sw.	12	5.4	.....	.....	10 s	.....	sw.	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.12	765.0	30.13	765.3	81	27.2	82	n.	7	3.1	.....	4 c;ck	0	e; ne.	.....	0	0	fair	W. J. Evans.
Red Bluff, California	29.58	751.3	29.94	760.5	60.0	15.6	65	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.83	757.7	30.07	763.8	78	25.6	82	calm	0	0	.....	0	5 s	.....	e.	1.35	34.3	fair	H. S. Miles.
Rochester, New York	29.24	742.7	29.89	759.2	71	21.7	90	sw.	5	2.2	.....	7 c	hz.	.....	.....	inap.	inap.	fair	E. W McGann.
Roseburg, Oregon	29.44	747.8	29.08	761.5	51	10.6	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.86	758.4	29.93	760.2	57.8	14.3	75	se.	8	3.6	.....	0	4 s	.....	.....	0	0	fair	J. A. Barwick.
St. Louis, Missouri	29.44	747.8	30.02	762.5	71.0	21.7	97	sw.	2	0.9	.....	7c;ck	0	w.	.....	inap.	inap.	fair	J. H. Webber.
St. Paul, Minnesota	29.13	739.9	29.97	761.2	68.0	20.0	90	sw.	6	2.7	.....	8 ck	0	n.	.....	0	0	cloudy	P. F. Lyons
St. Vincent, Minnesota	29.30	744.2	30.15	765.8	50	10.0	96	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.72	653.3	29.91	759.7	77	25.0	43	se.	4	1.8	.....	5 k	0	sw.	.....	0.37	9.4	fair	J. Craig.
San Antonio, Texas	29.38	746.2	30.07	763.8	72.5	22.5	97	ne.	3	1.3	.....	.....	10 n	.....	ne.	0.16	4.1	light rain	T. J. Kenan.
San Diego, California	29.90	759.4	29.97	761.2	66.0	18.9	81	w.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.28	743.7	29.94	760.5	72.8	22.7	90	w.	8	3.6	.....	5 c	0	.....	.....	1.22	31.0	fair	M. H. Perry.
Sandy Hook, New Jersey	29.93	760.2	29.99	761.0	76.0	24.4	90	sw.	8	3.6	.....	6 k	0	sw.	.....	0	0	fair	B. A. Blundon.
San Francisco, California	29.94	760.5	30.01	762.2	54.5	12.5	90	sw.	7	3.1	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.45	595.6	29.94	760.5	66	18.9	42	e.	9	4.0	.....	5 k	0	ne.	.....	0	0	fair	H. U. Jones.
Savannah, Georgia	30.00	762.0	30.10	764.5	83.5	28.6	67	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.68	677.7	30.22	767.6	64	17.8	90	nw.	2	0.9	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.90	759.4	30.14	765.5	72	22.2	90	s.	2	0.9	.....	1 cs	7 s	.....	.....	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.86	733.0	30.04	763.0	68	20.0	75	s.	10	4.5	.....	3 k	0 s	.....	.....	0.03	0.8	cloudy	T. Cleary.
Silver City, New Mexico	24.39	619.5	29.85	758.2	57	13.9	62	s.	2	0.9	.....	0	3 k	.....	calm	0.06	1.5	clear	J. B. Wallace.
Sitka, Alaska	30.03	762.7	30.09	764.3	53.5	11.9	86	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Smith, Fort, Arkansas	29.63	752.6	30.09	764.3	69.5	20.8	93	s.	3	1.3	.....	3 cs	0	s.	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	29.98	761.5	30.02	762.5	81	27.2	72	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.00	711.2	30.00	762.0	72	22.2	64	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.35	745.5	30.01	762.2	70.1	21.2	89	calm	0	0	.....	0	fg.	.....	.....	0.27	6.9	clear	T. B. Jennings.
Springfield, Massachusetts	29.80	756.9	29.93	760.2	74.8	23.8	85	s.	5	2.2	.....	.....	10 s	.....	n.	0	0	cloudy	T. S. Outram.
Springfield, Mo	28.66	728.0	30.05	763.3	67	19.4	92	sw.	1	0.4	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	J. B. Marbury.
Starkville, Miss	29.65	753.1	30.12	765.0	78.5	25.8	82	sw.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.38	720.8	30.16	766.1	60	15.6	87	ne.	8	3.6	.....	0	8 ks	.....	e.	0	0	cloudy	W. Burrows.
Stockton, Fort, Texas	27.08	687.8	30.02	762.5	63.0	17.2	100	s.	2	0.9	.....	0	0	.....	.....	0.20	5.1	clear	J. O'Dowd.
Thomas Camp	27.29	693.2	29.91	759.7	72	22.2	59	se.	.....	.....	1	1 cs	0	w.	.....	0	0	clear	
Thatcher's Island, Mass	29.86	758.4	29.91	759.7	67.0	19.4	93	sw.	9	4.0	.....	.....	fg.	.....	.....	0	0	dense fog	G. Liebmann.
Toledo, Ohio	29.28	743.7	29.95	760.7	72.5	22.5	86	s.	4	1.8	.....	2 c	4 k;fg	w.	w.	inap.	inap.	fair	A. Buell.
Tucson, Arizona	27.57	700.3	29.91	759.7	75	23.9	88	se.	1	0.4	.....	3 ck	0	.....	.....	0.04	1.0	clear	J. L. Whiteside.
Umatilla, Oregon	29.50	750.8	29.92	760.0	60	15.6	54	calm	0	0	.....	2 c	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.09	738.9	30.03	762.7	73	22.8	97	se.	2	0.9	.....	10 cs	0	s.	.....	0.13	3.3	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	73.9	23.2	68	nw.	.....	.....	1	4 cs	2 s	w.	w.	0.02	0.5	fair	D. Brooks.
Vicksburg, Mississippi	29.90	759.4	30.14	765.5	74	23.3	85	w.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.72	627.9	30.06	763.5	62.5	16.9	76	nw.	4	1.8	.....	6 k	0	.....	.....	0.03	0.8	fair	T. M. Ambler.
Washington, D. C	29.87	758.7	29.98	761.5	75.9	24.4	96	sw.	3	1.3	.....	0	5 k	.....	sw.	0	0	fair	F. M. M. Beall.
West Las Animas, Colorado	26.23	666.2	29.98	761.5	62.9	17.2	78	ne.	4	1.8	.....	7 k	0	ne.	.....	0	0	fair	F. H. Brandenburg
Williamsport, Pa	29.36	745.7	29.94	760.5	72.5	22.5	86	calm	0	0	.....	.....	fg.	.....	.....	0.44	11.2	dense fog	B. F. Hough.
Wilmington, N. Carolina	29.96	761.0	30.01	762.2	82	27.8	77	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.64	651.2	29.87	758.7	60.5	15.8	22	sw.	8	3.6	.....	3 ck	3 s	sw.	calm	0	0	fair	J. Grover.
Yankton, Dakota	28.84	732.5	30.11	764.8	66	18.9	78	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	J. H. Attfield.
Yuma, Arizona	29.72	754.9	29.86	758.4	85.2	29.6	61	calm	0	0	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	54.0	12.2	79	calm	0	0	.....	5 cs;k	1 s	nw.	sw.	0.04	1.0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.11	764.8	30.12	765.0	82	27.8	95	e.	.....	.....	.....	5 k	3 ks	.....	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C	29.95	760.7	29.98	761.5	77	25.0	89	calm	0	0	.....	.....	10 ks	.....	calm	0.70	17.8	cloudy	J. I. Plume.
Havana, Cuba†	30.05	763.3	30.11	764.8	77	25.0	85	e.	3.6	1.6	.....	0	0	.....	.....	0	0	clear	Chas. Hasselbrink.
Kingston, Jamaica, W. I	30.04	763.0	30.05	763.3	79.7	26.5	78	n.	2	0.9	.....	0	0	.....	.....	0.19	4.8	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	75	23.9	.....	calm	.....	.....	0	0	0	.....	.....	0.06	1.5	.....	S. M. Pike.
Navassa	29.92	760.0	30.00	762.0	81.5	27.5	68	ne.	4.5	2.0	.....	1 ks	3 k	e.	ne.	0	0	clear	F. M. Everett.
Paramaribo, S. A	30.10	764.5	30.10	764.5	79	26.1	82	se.	.....	.....	2	0	4 k	.....	e.	0.200	5.1	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.45	748.0	30.01	762.2	76	24.4	89	n.	.....	.....	1	5 ck	3 k	calm	s.	0.01	0.3	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A	.....	.....	.....	.....	.....	.....	96	ne.	.....	.....	1	5 ck	0	sw.	.....	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.00	762.0	30.06	763.5	50	10.0	100	calm	.....	.....	0	.....	10 n	.....	.....	0.46	11.7	light rain	W. J. Fisher.
St. Thomas, W. I	30.00	762.0	30.13	765.3	81	27.2	82	se.	.....	.....	.....	.....	2 k	.....	se.	0	0	clear	Aug. Wallon.
York Factory, B. A	29.69	754.1	29.75	755.6	54.0	12.2	100	n.	16	7.2	.....	.....	10 s	.....	n.	2.00	50.8	raining	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, N. 16° 47′ W. 29° 46′	30.17	766.3	78	25.6	95	ne.			2–3		9							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.80	756.9	81	27.2	82	wnw.			4		1					3	wnw.	d. clouds.
H. M. S. Amethyst, S. 24° 40′ W. 47° 55′	30.22	767.6	67.3	19.5	87	nw.			1		1	sw.				2	e.	blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.86	758.4	78	25.6		n.			3		0							blue sky.
H. M. S. Arab, Muscat, Arabia	29.32	744.7	91	32.8	82	se.			2		3	se.						misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.21	767.3	60.5	15.8		e.			1		1							blue sky.
H. M. S. Champion, Wrangel Bay, Corea			70	21.1	7	calm			0		0							blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	30.07	763.8	55	12.8	73	calm			0		2							d. clouds.
H. M. S. Diamond, S 10° 13′, E. 160° 49′	29.93	760.2	77	25.0	90	sse.			1		3					1	sse.	d. clouds.
H. M. S. Dido, N. 17° 00′, W. 62° 00′	30.11	764.8	80	26.7		e.			1		2	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	29.94	760.5	79.5	26.4	82	ene.			3–4		3	ene.						d. clouds.
H. M. S. Druid, N. 49° 30′, W. 13° 23′	30.22	767.6	61.5	16.4	88	ese.			1		10					1	ese.	overcast.
H. M. S. Emerald, N. 39° 45′, W. 23° 55′	30.20	767.1	71.5	21.9	100	calm			0		1	ese.					ne.	blue sky.
H. M. S. Espiegle, S. 15° 49′ E. 167° 59′	29.95	760.7	77	25.0	90	se.			3		9					1	se.	d. clouds.
H. M. S. Fantome, N. 10° 37′ W. 66° 56′	29.96	761.0	77	25.0		calm			0		2					2	ne.	d. clouds.
H. M. S. Flying Fish, N. 37° 04′ E. 126° 04′	29.89	759.2	73	22.8	93	nw.			1–2		4							d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.04	763.0	59	15.0	91	nw.			2		10							overcast.
H. M. S. Garnet, N. 41° 05′ W. 25° 15′	30.15	765.8	73	22.8	85	ssw.			3		8							d. clouds.
H. M. S. Iron Duke, N. 47° 14′ E. 140° 47′	29.79	756.7	66	18.9	94	sw.			3–4		6	sw.				2	s.	d. clouds.
H. M. S. Lark, S. 10° 23′, E. 161° 40′	29.93	760.2	78.3	25.7	92	ssw.			2		6					2	ssw.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.13	765.3	53	11.7		calm			0									d. clouds.
H. M. S. Magpie, N. 35° 07′, E. 128° 40′	29.96	761.0	79.3	26.3	88	se.			2–3		2							showery.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.78	756.4	80	26.7	82	nw.			2		3							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.92	760.0	67	19.4	90	wsw.			1									foggy.
H. M. S. Pegasus, N. 3° 51′, E. 100° 15′	29.85	758.2	83	28.3	87	calm			0		3							d. clouds.
H. M. S. Rambler, Ascension Island, Africa	30.14	765.5	76	24.4	90	ese.			2		4	ese.						
H. M. S. Sappho, Honolulu, Sandwich Islands	29.97	761.2	75	23.9	100	ne.			3		7							drizzling.
H. M. S. Swiftsure, S. 53° 32′ W. 72° 00′	29.48	748.8	40	4.4	91	calm			0			nnw.						d. clouds.
H. M. S. Tenedos, N. 51° 04′ W. 55° 46′	29.86	758.4	53	11.7	93	s.			1		9							d. clouds.
H. M. S. Triumph, S. 48° 16′, W. 62° 43′	29.61	752.1	43	6.1	91	nnw.			5–6		10	nw.				6	nw.	raining.
H. M. S. Woodlark, Jask, Persia	29.45	748.0	87.5	30.8	75	se.			5–6		3	e.						misty.
H. M. S. Zephyr, N. 49° 01′, E. 140° 19′	29.74	755.4	66	18.9	84	calm			0		10					2	s.	foggy.
PORTUGUESE NAVAL.																		
Rio Lima, Bulama, Senegambia	30.09	764.3	81.5	27.5	90	nw.			1		7			10 h'r	10 h'r	1		showery.
Tamega, Macao, China	29.78	756.4	84.2	29.0	72	e.			3		0							blue sky
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	30.08	764.0	75	23.9	90	ne.	4	1.8			0			0	0			clear.
Navy Yard, Portsmouth, N. H.	29.93	760.2	73	22.8	85	sw.	2	0.9			0			0	0			hazy.
Naval Hospital, Yokohama, Japan*	30.01	762.2	78	25.6	88	s.			1		0			0	0			hazy.
Adams, Mare Island, Cal.			56	13.3	87	sw.			2		10			0	0	sm'l		cloudy.
Alaska, S. 8° 31′, W. 97° 22′	30.04	763.0	70	21.1	85	se.			5		5		se.	0	0	long	s.	fair.
Alliance, Boston, Mass.	29.93	760.2	74	23.3	86	nnw.			1		2			0	0	sm'l		fair.
Ashuelot, Yokohama, Japan*	30.06	763.5	78	25.6	91	ssw.			2		2		sw.					clear.
Brooklyn, Rio de Janeiro, Brazil	30.32	770.1	64	17.8	94	nw.	1	0.4			2		calm	0	0	sm'l		fair.
Colorado, New York, N. Y.	29.95	760.7	75	23.9	90	s.	5	2.2			2			0	0			hazy.
Constellation, N. 39° 23′ W. 72° 17′*	30.01	762.2	74	23.3	86	sw.			1		10		calm			sm'l		cloudy.
Enterprise, Boston, Mass.	29.91	759.7	67	19.4	94	sw.			1		5		sw.					fair.
Essex, Coquimbo, Chili	30.13	765.3	54	12.2	87	nw.			0–1		0					sm'l		clear.
Franklin, Norfolk, Va.	30.01	762.2	78	25.6	91	sse.	4	1.8			5		sw.	0	0			fair.
Galena, N. 31° 36′, W. 15° 23′	30.10	764.5	73	22.8	95	wnw.			2		10		nw.			sm'l		cloudy.
Independence, Mare Island, Cal.	29.98	761.5	56	13.3	94	sw.			3		8		sw.	0	0			cloudy.
Iroquois, Magdalena Bay, Cal.	30.08	764.0	69	20.6	80	w.			1		10		nw.	0	0	sm'l		cloudy.
Kearsarge, Norfolk, Va.	30.01	762.2	76	24.4	95	calm			0		5		n.					fair.
Lackawana, Callao, Peru*	30.01	762.2	61	16.1	88	nw.			1		10							cloudy.
Lancaster, Villafranca, France*	29.84	757.9	83	28.3	75	ssw.			1		2		calm	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	29.96	761.0	54	12.2	100	w.			2		0			mod.	mod.	sm'l		clear.
Michigan, Milwaukee, Wisconsin	29.82	757.4	86	30.0	55	sw.			3		2		sw.					fair.
Minnesota, off New York, N. Y.	29.99	761.7	76	24.4	86	sw.	5	2.2			2		nw.					
Monocacy, Che Foo, China	29.90	759.4	82	27.8	85	s.			2		2		s.			sm'l		fair.
New Hampshire, Newport, R. I.	30.04	763.0	72	22.2	100	sw.			3		8		wnw.			sm'l		fair.
Nipsic, Villafranca, France*	29.82	757.4	79	26.1	74	ssw.			2		2					sm'l		clear.
Onward, Callao, Peru†	30.15	765.8	59	15.0	100	nw.			1		10		ne.			long	w.	cloudy.
Palos, Kobe, Japan*	30.03	762.7	80	26.7	87	wsw.			2		10		sw.					cloudy.
Passaic, Washington, D. C.	30.02	762.5	79	26.1	91	sw.			2		5							fair.
Pensacola, Panama, Panama*	29.90	759.4	77	25.0	91	nnw.	2	0.9			8			mod.	mod.	long	s.	cloudy.
Portsmouth, N. 40° 46′, E. 5° 25′*	29.88	758.9	70	21.1	70	nw.			5		0					mod		clear.
Powhatan, Norfolk, Va.	30.01	762.2	81	27.2	83	calm			0		5							fair.
Quinnebaug, Alexandria, Egypt*	29.76	755.9	80	26.7	82	nw.			4		2		nw.			sm'l		fair.
Ranger, Mare Island, Cal.	30.01	762.2	58	14.4	76	sw.			2		10			0	0			overcast.
Richmond, Yokohama, Japan*	30.07	763.8	80	26.7	96	ssw.			2		0			0	0			clear.
Saratoga, Villafranca, France	29.82	757.4	80	26.7	96	s.			0–1		2		calm	0	0	sm'l		clear.
St. Louis, League Island, Pa.	30.24	768.1	76	24.4	91	sw.			4		10		sw.	0.04	1.0			cloudy.
Swatara, N. 33° 57′, E. 130° 27′*	29.75	755.6	79	26.1	95	s.			1		5		se.			sm'l		fair.
Tennessee, Boston, Mass.	29.95	760.7	71	21.7	95	ssw.	6	2.7			5			0	0			fair.
Vandalia, Portsmouth, N. H*	29.86	758.4	71	21.7	95	calm			0		5		w.					fair.
Wabash, Boston, Mass.	29.96	761.0	72	22.2	85	sw.	8	3.6			5		sw.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska†	30.31	769.9	56	13.3	100	calm			0		1		calm	0	0	sm'l		clear.
Wyoming, Port Royal, S. C.*	30.06	763.5	79	26.1	78	wnw.	8	3.6			2		calm	0	0			clear.
Yantic, Boston, Mass.	29.93	760.2	73	22.8	85	wsw.			2		5							fair.
MERCHANT MARINE.																		
ALLAN LINE.																		
S. S. Grecian, Southampton, England*	30.18	766.6	75	23.9		nne.			2		8		nne.	0	0			cloudy.
S. S. Polynesian, N. 50° 00′ W. 59° 10′*	29.72	754.9	60	15.6		sw.			3		5		sw.	0	0	sm'l	sw.	fair.
S. S. Scandinavian, N. 51° 50′, W. 26° 40′*	29.67	753.6	58	14.4		wsw.			1		10			0	0	light	s.	misty.
S. S. Waldensian, N. 53° 50′, W. 26° 19′*	29.84	757.9	61	16.1		ssw.			2		fg		ssw.			light	ssw.	rain & fog.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 46° 16′ W. 35° 16′†	30.02	762.5	68	20.0		w.			3		2		nw.	3 h'r	3 h'r	mod.	wnw.	clear.
S. S. Indiana, Cape Henlopen, Del†	30.18	766.6	85	29.4	96	sw.			3		2		sw.					fine.
S. S. Lord Clive, Philadelphia, Pa*†	29.85	758.2				sw			2		2		sw.	2 h'r	2 h'r			fine.
S. S. Ohio, Philadelphia, Pa.†	29.94	760.5	75	23.9	100	nw.			2		9		w.					cloudy.
AMSTERDAM LINE.																		
S. S. Jason, N. 42° 00′, W. 61° 02′*	30.01	762.2	68.0	20		s.			4	6 c						3	s.	cloudy.
S. S. Stella, N. 43° 40′, W. 54° 38′	30.05	763.2	73.4	23		w.			1		6		w.	2½ h'r	2½ h'r	1	w.	drizzling.
ANCHOR LINE.																		
S. S. Alexandria, Messina, Sicily	29.80	756.9	84.5	29.2		nne.			4		3		nne.	0	0			clear.
S. S. Assyria, N. 46° 49′, W. 36° 05′†	29.99	761.7	65	18.3		w.			1		0			0	0	sm'l		clear.
S. S. Bolivia, N. 54° 23′, W. 26° 35′*†	30.06	763.5	59	15.0		sw.			3		10		w.	4 h'r	4 h'r	long	sw.	hazy.
S. S. Devonia, N. 53° 28′, W. 21° 25′†	30.13	765.3	58	14.4		s.			3		9		s.			light	s.	misty.
S. S. Dorian, N. 42° 46′ W. 59° 46′*	29.92	760.0	67	19.4		var.			1		fg.			0	0	sm'l		foggy.
S. S. Ethiopia, N. 41° 35′, W. 63° 40′	30.08	764.0	67	19.4	100	ene.			2		10		ene.	0	0	sm'l		dense fog.
ATLAS LINE.																		
S. S. Ailsa, Cartagena, U. S. C.†	30.02	762.5	80	26.7	95	ene.			4		5		ne.	0	0	long	ne.	hazy.
S. S. Alene, St. Marc, Hayti, W. I.†	29.99	761.7																
S. S. Alpin, N. 13° 22′, W. 69° 56′	29.98	761.5				sse			4		5		se.	0	0		se.	clear.
S. S. Antillas, San Juan, Porto Rico, W. I.†	30.05	763.3	84	28.9		sse.			1		2		sse.	0	0			clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
										Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From	Lower. From.	Inch.	Mill.	Character.	Direction from.	
British Meteorological Office.																		
Auckland, S. 41° 05′, E. 21° 55′	30.08	764.0	52	11.1	79	sw.			5		5							blue sky.
S. Baroda, S. 3° 35′, W. 14° 34′	30.18	766.6	73.9	23.3	85	ne.			2		3							d. clouds.
Bk. Caldew, S. 34° 26′ W. 8° 07′	30.07	763.8	59	15.0	76	w.			6		7							d. clouds.
Bk. Commewyne, N. 41° 10′, W. 38° 01′	30.14	765.5	74	23.3	81	wnw.			3		8							d. clouds.
S. S. City of Agra, S. 39° 30′, W. 12° 10′	29.61	752.1	49	9.4	94	w.			6		10							raining.
S. S. Humboldt, S. 31° 40′, W. 49° 23′	30.11	764.8	65.3	18.5	78	nw.			6		8							misty.
Bkt. May Hulse, N. 35° 17′, W. 37° 30′	30.26	768.6	81.5	27	78	nnw.			1		5							d. clouds.
S. S. Minho, N. 1° 44′, W. 29° 52′	30.12	765.0	79.9	26.6	84	se.			4		2							d. clouds.
S. S. Oamaru, S. 2° 47′, W. 18° 50′	30.20	767.1	77.0	25.0	82	ese.			4		5							d. clouds.
S. S. Mertola, N. 40° 22′, W. 11° 10′	29.90	761.0	67.5	19.7	87	wsw.			1		10							overcast.
S. S. Pole Star, N. 48° 25′, W. 19° 56′	30.14	765.5	61.9	16.6	94	ssw.			3		9							drizzling.
S. S. Rosetta, N. 8° 45′ E. 108° 42′	29.82	757.4	81.5	27.5	79	sw.			5		3							blue sky.
California and Mexican Steamship Company.																		
S. S. Mexico, N. 28° 22′, W. 115° 08′.*†	30.01	762.2	59	15.0	87	se.			1		1		se.			hy'y	wnw.	hazy.
Cunard Line.																		
S. S. Gallia, N. 51° 04′, W. 15° 42′	30.18	766.6	63	17.2	88	sw.			4		8		sw.	0	0	sm'h		overcast.
S. S. Marathon, N. 48° 06′, W. 6° 30′	30.18	766.6	74	23.3		sse.			1		10		sse.	0	0	sm'h	sse.	misty.
S. S. Scythia, N. 44° 51′ W. 42° 05′	29.99	761.7	68	20.0	90	wnw.			2		10		nw.	0	0			fine.
Donaldson Line.																		
S. S. Colina, N. 49° 19′, W. 61° 06′†	30.20	767.1				ssw.			3		4		ssw.			sm'h	sw.	clear.
General Trans-Atlantic Company.																		
S. S. France, N. 49° 20′, W. 17° 20′†	30.15	765.7	64.4	18		sse.			4	10 ck		sse.		0	0	sm'h	n.	overcast.
S. S. Ville de Marseilles, N. 38° 08′, W. 32° 42′*†	30.10	764.5	75	23.9		wnw.			6		1		wnw.	0	0	r'gh	wnw.	clear.
Guion Line.																		
S. S. Arizona, N. 51° 18′, W. 19° 05′	30.12	765.0	59	15.0		ssw.			3		8		wsw.	0	0	sm'h		hazy.
S. S. Wisconsin, N. 47° 30′, W. 35° 30′	29.94	760.5	66	18.9		n.			2		0			3 h'r	3 h'r	sm'h		clear.
Hamburg American Packet Company.																		
S. S. Cimbria, N. 51° 55′, E. 2° 40′	30.13	765.3	69	20.6		wnw.			2		5?		nw.	0	0	sm'h	nw.	clear?
S. S. Herder, N. 49° 24′, W. 20° 15′ *	29.85	758.2	66	18.9		wsw.			4		10		wsw.	0	0	mod.	wsw.	cloudy.
S. S. Silesia, Hamburg, Germany	29.92	760.0	68.5	20.3		w.			4-5				w.	0	0			cloudy.
S. S. Westphalia, New York, N. Y.	29.90	759.4	76	21.4	95	wsw.			1		5		wsw.	0	0			fair.
S. S. Wieland, N. 43° 46′, W. 50° 20′	30.13	765.3	63.5	17.5		ene.			1		8			0	0	2-3	w.	misty.
Lampert and Holt's Line.																		
S. S. Archimedes, N. 40° 21′ W. 69° 00′†	30.04	763.0				var.			1					½ h'r	½ h'r	light	se.	dense fog.
S. S. Hevelius, Buenos Ayres, S. A*†	30.19	766.8	51	10.6		w.			5		2		wsw.	4 h'r	4 h'r			clear.
Leyland Line.																		
S. S. Bulgarian, N. 42° 24′, W. 64° 04′*	29.89	759.2				sw.			1		fg		sw.	0	0	sm'h		foggy.
Mallory Line.																		
S. S. City of San Antonio, N. 28° 30′, W. 76° 30′*†	30.22	767.6				nw.			3		0			0	0	sm'h		fair.
S. S. Colorado, Galveston, Texas†	30.10	764.5	80	26.7		calm			0		3			6 h'r	6 h'r	small	e.	clear.
Mediterranean and New York Steamship Co.																		
S. S. Archimede, N. 36° 54′, W. 25° 47′*†	30.27	768.8	75	23.9	90	ese.			1		2		e.	0	0	sm'h	ne.	clear.
Merchants' Steamship Company.																		
S. S. Glenapp, N. 4° —′, W. 48° —′†	30.03	762.7				ese.			5		6		ese.	0	0	short	se.	squally.
Morgan Line.																		
S. S. Chalmette, N. 34° 03′, W. 76° 45′†	30.04	763.0	83	28.3		w.			2		0			0	0	mod.	sw.	clear.
National Line.																		
S. S. Denmark, N. 40° 51′ W. 53° 45′	30.13	765.3	75	23.9		wsw.			2		5		sw.	0	0	sh't	wsw.	fine.
S. S. Erin, N. 49° 40′, W. 25° 56′	29.90	759.4	64	17.8	78	sse.			6		10			10 h'r	10 h'r	mod.	se.	heavy rain.
New York and Cuba Mail Steamship Company.																		
S. S. Santiago, N. 33° 29′, W. 73° 56′†	30.07	763.8	80	26.7		n.			2		2		n.	0	0	sm'h		fine.
New York, Havana and Mexican Mail.																		
S. S. City of Alexandria, N. 30° 44′, W. 78° 55′†	30.11	764.8	86	30.0	84	wsw.			2		0			0	0			hazy.
S. S. City of Washington, N. 19° 50′, W. 99° 55′*†	30.10	764.5	80	26.7		e.			2		2		e.	0	0	sm'h		fine.
North German Lloyd.																		
S. S. America, N. 39° 46′, W. 58° 10′*	30.22	767.6	78.5	25.8	72	nw.			1		2		nw.	0	0	sm'h	nw.	clear.
S. S. Graf Bismarck, N. 33° 07′, W. 13° 10′	30.07	763.8	70.7	21.5		n.			3		7		n.	0	0	mod.	n.	cloudy.
S. S. Koln, N. 49° 17′, W. 19° 47′*	30.13	765.3	70.5	21.4	66	sw.			4		5		sw.	0	0	sli't	w.	foggy.
S. S. Neckar, N. 40° 46′ W. 64° 08′	30.07	763.8	79.0	26.1	89	sse.			3					0	0	sm'h	s.	clear.
S. S. Ohio, N. 38° 42′, W. 69° 46′	30.15	765.8				s.			1		1		sw.	0	0	sm'h	w.	fair.
S. S. Salier, N. 41° 03′, W. 71° 37′	30.03	762.7	60.8	16.0		sw.			4		8		sw.	0	0	mod.	sw.	cloudy.
S. S. Strassburg, N. 49° 26′, W. 20° 49′	30.10	764.5	61.5	16.4	91	s.			3		9		s.	2 h'r	2 h'r	sm'h	s.	hazy.
Occidental and Oriental Steamship Company.																		
S. S. Belgic N. 37° 43′, E. 149° 57′.†	30.39	770.9	78	25.6	82	sw.			1		10		sw.	0	0	sm'h		misty.
S. S. Gaelic, Yokohama, Japan †	30.12	765.0	83	28.3	87	s.			3		7		s.					cloudy.
Ocean Steamship Company.																		
S. S. City of Augusta, N. 38° 28′, W. 74° 36′†	30.09	764.3				ne.			1		8?			0	0	sm'h		clear?
S. S. Seminole, N. 34° 10′ W. 76° 45′†	30.07	763.8	86	30.0	92	calm			0		0			0	0	mod.	sw.	clear.
Oregon Railway and Navigation Company.																		
S. S. Columbia, N. 39° 07′, W. 123° 08′†	29.97	761.2	52	11.1	86	wnw.			2		10					sm'h	nw.	foggy.
S. S. Oregon, Portland, Oregon†	29.99	761.7	58	14.4	94	calm			0		0							clear.
Pacific Coast Steamship Company.																		
S. S. Ancon, N. 33° 57′, W. 118° 52′†	29.96	761.0	61	16.1	94	e.			1		2		e.			sm'h		fair.
S. S. City of Chester, San Francisco, Cal *†	29.86	758.4	54	12.2	87	nw.			1		8		nw.					cloudy.
S. S. Idaho, N. 47° 35′ W. 122° 15′†	30.00	762.0	57	13.9	94	calm			0		2		n.	0	0	sm'h		hazy.
S. S. State of California, San Francisco, Cal†	29.99	761.7	52	11.1	100	calm			2		10		w.					foggy.
S. S. Victoria, San Francisco, Cal†	29.94	760.5	54	12.2	87	calm			0		5?			0	0	sm'h		overcast.
Pacific Mail Steamship Company.																		
S. S. Australia, Sydney, N. S. W.	29.90	759.4	53	11.7	93	w.			4		8?		w.	0	0			clear?
S. S. City of New York, Sydney, N. S. W.†	29.82	757.4	52	11.1	73	nw.			2		10		n.	0	0			overcast.
S. S. City of Pekin, N. 46° 58′, W. 151° 10′†	30.55	776.0	50	13.3	100	w.			3		10		w.	0	0	sm'h		foggy
S. S. City of Rio de Janeiro, N. 15° 58′, W. 99° 36′ *†	30.26	768.6	84	28.9	87	nw.			2		8		w.	0	0	long	sw.	fine.
S. S. City of Sydney, N. 35° 23′, W. 128° 46′ †	30.12	765.0	62	16.7	77	calm			0		1		nne.	0	0	sm'h		clear.
S. S. City of Tokio, Hong Kong, China†	29.84	757.9	82	27.8	87	ene.			2		2		ene.	0	0			fine.
S. S. Colima, N. 28° 18′, W. 116° 03′†	29.97	761.2	63	17.2	83	var.			3		0		sse.	0	0	mod.	nw.	misty.
S. S. Colon, N. 14° 56′, W. 76° 09′†	30.04	763.0	80	26.7		e.			4		3		ese.	0	0	small		fair.
S. S. Costa Rica, Acajutla, Mexico†	29.92	760.0	77	25.0	77	n.			2		10		ne.	0	0	sm'h		fine.
S. S. Grenada, Panama, Panama †	29.94	760.5	78	25.6	95	n.			1		2		nw.	3 h'r	3 h'r	sm'h	nw.	clear.
S. S. Zelandia, N. 19° 34′, W. 158° 48′	30.20	767.1	78	25.6	91	ne.			4		2		ne.			mod.	ne.	fine.
Quebec S. S. Company.																		
S. S. Bermuda, N. 34° 51′, W. 71° 33′†	30.05	763.3	84	28.9		s.			1		0		calm	2 h'r	2 h'r	gentle	se.	fine.
S. S. Muriel, St. Kitts, W. I.	30.02	762.5	84	28.9		e.			2		10			0	0	sm'h		overcast.
Red D Line.																		
S. S. Valencia, N. 17° 54′ W. 68° 00′*†	30.25	768.3	81	27.2	83	ese.			6		6		se.	1 h'r	1 h'r	sm'h	e.	squally.
Red Star Line.																		
S. S. Belgenland, Philadelphia, Pa.†	30.14	765.5	76	24.4	91	ssw.			4		6		s.	0	0			
S. S. Nederland, N. 42° 53′, W. 56° 08′†	30.10	764.5	80	15.0	94	wsw.			2							mod	w.	foggy.
S. S. Pennland, N. 49° 15′, W. 60° 50′	30.09	764.3				nne.			2		1		ne	0	0	sm'h		hazy.
S. S. Rhynland, Antwerp, Belgium*†	30.40	772.1	63	17.2		wnw.			6		8		nne.	2 h'r	2 h'r			cloudy.
S. S. Vaderland, N. 40° 42′, W. 64° 06′	30.00	759.4	78	25.6	86	sw.			1		0			0	0	sm'h		clear.
S. S. Waesland, New York, N. Y.	29.89	759.2	82	27.8		s.			4		5		s.	0	0			fair.
Rotterdam Line.																		
S. S. Edam N. 43° 40′, W. 53° 09′	30.00	762.0	71.0	21.7	95	s.			3		8		n.	0	0			cloudy.
S. S. W. A. Scholten, N. 50° 20′, W. 1° 57′*	30.06	753.5	64.5	18.1	89	n.			1		0			0	0	sm'h	w.	

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, N. 35° 27′, W. 73° 40′	30.00	762.0	82	27.8		n.			1		3		n.	½ h'r	½ h'r	mod.	ne.	fair.
STATE LINE.																		
S. S. State of Florida, New York, N. Y	29.84	757.9	76	24.4		sw.			2		7		sw.	light	light			cloudy.
S. S. State of Georgia, N. 42° 16′ W. 56° 32 †	30.11	764.8	69	20.6		w.			1		7		w.	0	0	sm'h		foggy.
S. S. State of Indiana, N. 55° 02′, W. 16° 11′†	30.44	773.2	58	14.4		sw.			2		2		wsw.	2 h'r	2 h'r	mod.	w.	rain & fog.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 43° 52′, W. 46° 40′†	30.31	769.9	68.9	20.5	?	w.			2		10		w.	3 h'r	3 h'r	long	w.	covered.
WARREN LINE																		
S. S. Iowa. N. 43° 39′, W. 48° 03′*†	30.18	766.6	63	17.2		nnw.			2		10		nnw.	3 h'r	3 h'r	sl't	w.	hazy.
W. I. & PACIFIC S. S. CO.																		
S. S. Venezuela, N. 51° —′, W. 10° —′*	30.20	767.1	62	16.7	88	calm			0		0					sm'h		clear.
WHITE STAR LINE.																		
S. S. Adriatic, Liverpool, Eng*†	30.38	771.6	61	16.1	88	wnw.			3		2		nw.	0	0			clear.
S. S. Baltic, Off Skerries Id., Eng	30.25	768.3	60	15.6	88	nnw.			1		7		nw.	0	0		s.	d. clouds.
S. S. Britannic, N. 49° 55′, W. 33° 46′†	29.99	761.7	59	15.0	94	nw.			3		5		nw.	4 h'r	4 h'r	sm'h		d. clouds.
S. S. Celtic, New York, N. Y†	30.19	766.8	85	29.4	76	s.			2		2		s.	0	0			fair.
S. S. Republic, N. 43° 47′, W. 46° 00′†	30.22	767.6	68	20.0	90	n.			4		9		n.	sh'rs	sh'rs	mod.	ne.	d. clouds.
WILSON LINE.																		
S.S. Romano, N. 42° 20′, W. 50° 54′	30.05	763.3	62	16.7		sw.			1		10		sw.			sm'h	sw.	overcast.
WINSOR LINE.																		
S. S. Catherine Whiting, Delaware River†	30.02	762.5	80	26.7		sw.			1					0	0			foggy.
MISCELLANEOUS.																		
Bk. Adelaide, N. 38° 03′, W. 59° 40′*†	30.26	768.6	82	27.8		sse.			2		1		ssw.	0	0	sm'h	se.	clear.
Schr. Ajax, N. 36° 20′ W. 75° 00′†	30.12	765.0				calm			0		4		e.	0	0	sm'h	e.	fair.
Bk. Alpha, N. 59° 00′, W. 11° 50′†	30.10	764.5	56	13.3		sw.			6		9		wsw.	0	0	mod.	w	cloudy.
Bk. Anna Thorman, S. 37° 30′, E. 91° 17′	30.20	767.0	55.4	13.0	93	n.			6		10 n			0	0	mod.	n.	misty.
S. S. Antonio Lopez, N. 26° 45′, W. 74° 38′*	30.07	763.8	80	26.7	84	ne.			1		3		nw.	0	0	sm'h		fair.
Bk. Argonaut, N. 43° 12′, W. 56° 58′*†	30.09	764.3	65.7	18.7		wsw.			2		8		wsw.	3 h'r	3 h'r	mod.	w.	drizzling.
Bk. Aureola, N. 3° 10′, W. 38° 40′*†	30.24	768.1	80	26.7		sse.			4		3		s.	0	0	mod	s.	clear.
Bk. B. F. Watson, N. 32° 03′, W. 41° 32′†	30.30	769.6	81	27.2		s.			3		5		s.	0	0	long	se.	misty.
Bk. Bergenseren, Off Cape Breton Id†	29.75	755.7				ssw.			2		hz			0	0	sm'h		hazy.
Bk. Bremen, N. 55° 59′. W. 16° 33*†	30.23	767.8				ssw.			6		4		ssw.	0	0	mod.	wsw.	fair.
S. S. Burswell, N. 50° 37′, W. 6° 35′*†	30.27	768.8	73	22.8		ne.			2		9		ne.	0	0	sm'h		very fine.
Bk. Cato, Malmö, Sweden*†	30.23	767.8				nw.			2									fair.
Bk. Celestina, N. 11° 43′ W. 22° 42′*†	30.05	763.3				w.			3		10		sw.	0	0	r'gh	sw.	cloudy.
Schr. C. R. Flint, N. 39° 28′, W. 74° 07′†	30.17	766.3	72	22.2		s.			1		10		sw.	0	0	sm'h	se.	cloudy.
S. Cornelius, N. 49° 00′, W. 11° 47′*†	30.45	773.4	54.5	12.5		e.			2		10		n.	0	0	sm'h		cloudy.
S. Dora, N. 4° 40′ W. 17° 35′†	30.19	766.8	78.8	26.0		s.			4		1		s.	0	0	mod.	sse.	clear.
Schr. Edith R. Seward, N. 36° 58′, W. 75° 45′*†	30.07	763.8	84	28.9		se.			1		2		calm	0	0	sm'h	e.	clear.
S. E. J. Spicer, New York. N. Y*	29.97	761.2	78	25.6		sw.			2		5		sw.	0	0			fair.
S. Enoch Train, N. 49° 18′, W. 14° 40′†	30.30	769.6				ese.			3		8		se.	0	0	sm'h		fine.
Bk. Essex, S. 8° 06′. E. 42° 29′*†	30.12	765.0	81	27.2		s.			3		4		sse.	0	0	mod.	se.	fine.
Bk. Franklin, N. 54° 10′, W. 18° 00′*†	30.50	774.7				sw.			2		5			0	0	sm'h		hazy.
Bk. Freya, Baltimore, Md						sw.			2		5		wnw.	0	0			
S. Glendon, N 39° 12′, W. 60° 35′†	30.13	765.3	85	29.4		s.			2		10		s.	0	0	sm'h		fair.
Bk. Godfrey, N. 41° 30′, W. 15° 23′	30.01	762.2	66.2	19.0	81	nw.			5		6		nnw.	0	0	mod.	ne.	hazy.
S. Grecian, N. 18° 37′, E. 114° 27′*†	29.75	755.6	84	28.9		ene.			4		2		s.	0	0	mod.	s.	clear.
Bk. Gronsvaer, N. 32° 15′, W. 40° 10′†	30.29	769.3				ssw.			2		5		s.	0	0	sm'h		hazy.
Bk Hattie G. McFarland, Boston, Mass*†	30.00	762.0	74	23.3		sw.			3		3		sw.	0	0			fair.
Schr. Hattie Weston, N. 13° 22′, W. 63° 48′*†	30.14	765.5	84	28.9		ese.			3		2		ese.	0	0	mod.	e.	fair.
Bk. Heinrich & Tonio, N. 42° 20′, W. 38° 05′*†	30.34	770.6	72	22.2		w.			2		0			0	0	sm'h		clear.
Bk. Horace Scudder, Port of Spain, Trinidad, W. I†	30.11	764.8	80	26.7		e.			2		2		e.	0	0			blue sky.
S. Ivy, S. 38° 56′ W. 115° 20′†	30.33	770.4	52	11.1		w.			6		1		w.	0	0	h'vy	wsw.	hazy.
S. Ismir, S. 5° 57′ E. 105° 54′†	29.92	760.0				calm			0		4		calm	0	0	sm'h		fine.
Schr. James Slater, N. 30° 57′, W. 71° 42′*†	30.26	768.6	83	28.3		nnw.			3		1			0	0	light	nnw.	
Schr. Jennie N. Huddell, Philadelphia, Pa†	30.02	762.5	78	25.6	95	wsw.			2		2?		wsw.	0	0			cloudy?
Bk. Johanne, N. 42° 16′, W. 59° 09′*†	30.10	764.5	74	23.3		nw.			2		2		wsw.	0	0	mod.	w.	hazy.
Bg. John Wesley, St. Jago, Cuba, W. I†	29.90	759.4				calm			0		2			2 h'r	2 h'r			clear.
Bk. Joseph A. Ropes, S. 36° 02′, W. 8° 55′*†	29.95	760.7	60	15.6	76	nw.			5		10		nw.	0	0	mod	nw.	cloudy.
Bkt. Josephine, Havana, Cuba, W. I.†	30.10	764.5	77	25.0	82	e.			3		2		e.	0	0			hazy.
Bkt. Kryolith, N. 39° 42′, W. 73° 24′*†	30.04	763.0				sw.			2		2		sw.			sm'h		clear.
Light House Tender, Laurel, Key West, Florida†	30.17	766.3	84	28.9		ne.			2		2		ne.	0	0			clear.
Bk. Liberia, N. 30° 30′, W. 65° 52′.*..	29.96	761.0	80	26.7	91	ene.			4		4			0	0			
Schr. Maggie Abbott, N. 19° 35′, W. 72° 45′†	30.02	762.5									4		e.	0	0			clear.
S. Minnie N. Gerow, N. 46° 08′. W. 28° 28′						se.			4		5		s.			long	se.	fair.
S. M. P. Grace, S. 46° 20′, W. 87° 20′*	29.87	758.7	45	7.2		w.			6				w.	0	0	r'gh	wnw.	squally.
Bk. National Eagle, N. 39° 44′, W 41° 40′†	30.13	765.3				wsw.			2		3		w.	0	0	sm'h		fair.
S. S. Nebo, Carthagena, Spain*†	30.00	762.0				calm			0		0			0	0	sm'h		clear.
S. Oracle, N. 36° 55′, W. 76° 38′*	30.05	763.3	85	29.4	70	calm			0		7 k		e.					cloudy.
S. Orealla, N. 24° 55′, W. 38° 55′*	30.14	765.5				e.			3		3		e.	0	0	mod.	se.	clear.
S.Paramita, N. 34° 59′, W. 133° —′			73	22.8		nw.			1-5		6		w.	1 h'r	1 h'r	long	wnw.	cloudy.
Bk. Rosebud, S. 37° 34′, E. 33° 39*†	30.00	762.0	66	18.9	94	wnw.			6		5		w.	sh'rs	sh'rs	sharp	w.	
S. St. Francis, N. 36° 18′, w. 56° 08′†	30.16	766.1	76	24.4		e.			4		3		e.	0	0	long	se.	fine.
Bk. Sunbeam, N. 39° 35′, W. 40° 53′†	30.26	768.6	78	25.6	90	wsw.			4		0			0	0	mod.	n.	clear.
S. S. Sunbeam, N. 36° 18′ E. 4° 40′	29.99	761.7	81	27.2	74	calm			0		2					sm'h		d. clouds.
S. Sovereign of the Sea, S. 39° 59′, W. 56° 34′*†	29.44	747.8	48	8.9	92	w.			6		5		w.	4 h'r	4 h'r	h'vy	w.	
Bk. Truro, N. 40° 20′, W. 68° 00′*†	30.04	763.0				s.			3		2		ssw.	0	0	sm'h		clear.
U. S. F. C. S. S. FishHawk, Wood's Holl, Mass†	30.16	766.1	70	21.1	90	ssw.			2		5		calm	0	0			fair.
Bk. Vincenzo Accame, N. 38° 27′, W. 40° 25′†	30.43	773.0	77.0	25		nw.			6									
Schr. Viola Reppard, N. 34° 20′, W. 76° 01′†	30.03	762.7	87	30.6		calm			0		2			0	0	small	sw.	
Bg. Wauburn, Azua, San Domingo, W. I*†	30.10	764.5				nnw.			3		2		nne.			mod.	sse.	¼ clouded.
Bk. Warden Law, Sunderland, England*	30.05	763.3				ne.			2				ene.	0	0			fair.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 8, 1882,

7 A. M., Washington Mean Time.

Stations.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.93	760.3	80.6	27.0	86	s.			1		4			0	0	cloudy	Bouvier.
Algiers			29.93	760.3	75.2	24.0	79	nw.			1		8			0.008	0.2	very cloudy	Thève.
La Galle			29.95	760.8	74.8	23.8	80	sw.			5		3			0	0	cloudy	Foufrède.
Tunis			29.93	760.2															Jacques.
Saida			30.02	762.6															Perès.
Tebessa			30.01	762.3	87.8	31.0	13	w.			3		3			0	0	cloudy	Rigaud.
Geriville					93.9	34.4	5	ssw.			2		3			0	0	cloudy	Lonchamp.
Laghouat			30.05	763.3	102.2	39.0	23	e.			1		1			0	0	very fair	Abraham.
Biskra			30.04	762.9	99.3	37.4	23	nw.			1		3			0	0	pretty fair	Malau.
Australian.																			
Melbourne, Victoria	30.05	763.3	30.14	765.5	46.0	7.8	79	w.	15	6.7			4			0.14	3.6	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.33	745.0	29.86	758.5	69.8	21.0	51	sw.			1		4			0.020	0.5		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.01	736.9	29.77	756.1	56.7	13.7	89	w.	13.6	6.1			10			0.575	14.6	Ft'ng th'der.	Dr. Wierzbiski.
Eperies	28.88	733.6	29.74	755.5	59.4	15.2	78	calm			0		10 s			0.031	0.8		Julius Mikolik.
Gratz	28.65	727.7	29.85	758.3	68.7	20.4	78	nw.			4		5			0	0		Andreas Rospini.
Hermannstadt	28.35	720.2	29.74	755.4	64.0	17.8	57	nw.			4		9			0.087	2.2	raining.	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.61	726.8	29.93	760.3	60.1	15.6	74	wnw.			3		10			0.350	8.9	gloomy	The Staff.
Lemberg	28.73	729.8	29.70	754.4	57.0	13.9	84	nw.			4		10			0.319	8.1		Dr. T. Stanecki.
Pola	29.75	755.7	29.86	758.4	77.5	25.3	37	ese.			4		5			0	0		I. R. Hydrographic Office.
Szathmar	29.28	743.8	29.74	755.3	61.7	16.5	76	nw.			2		8			0.268	6.8	showery	Joseph Midlinszky, S. J.
Szegedin	29.51	749.5	29.78	756.3	70.2	21.2	74	w.			5		4			0	0	thunder	Karl Stancel.
Trieste																			Royal Academy.
Vienna	29.21	741.8	29.90	759.5	63.7	17.6	60	w.			2		9			0.059	1.5		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.12	765.0	30.22	767.6	58.6	14.8	73	sse.	14	6.3			2			0	0	blue sky	W. Boswell
Armagh, Observatory	30.02	762.5	30.24	768.1	63.6	17.6	83	ssw.	4	1.8			9					misty	S. Call.
Blidston, Liverpool Obs'y			30.21	767.3	65.2	18.4	76	w.	7	3.1			0					misty	John Hartnup.
Bolton, Sharples	29.63	752.6	30.16	766.1	67.4	19.7	74	sw.					7					misty	Thomas Mackereth.
Bradford, Yorkshire	29.82	757.4	30.21	767.3	64.1	17.8	64	n.			2		3			0	0	d. clouds	J. McLandsborough.
Bridgetown, Barbadoes	30.09	764.3	30.12	765.0	77.0	25.0	86	ne.			2		8					raining	Corpl. J. Surgenor, A. H. C.
Gardington			30.18	766.0	68.0	20.0	60	n.			0.6		6					d clouds	John McLaren.
Chatham, School M. E.	30.07	763.8	30.20	767.1	62.8	17.1	88	ne.			1		8					gloomy	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.97	761.2	30.20	767.1	66.0	18.9	78	sse.			1		0					misty	The Staff.
Fort Napier, Natal	27.94	709.7	30.15	765.8	72.2	22.3	29	calm			0		0					blue sky	Corpl. F. Milner, A. H. C.
Free Town, Sierra Leone	29.74	755.4	29.98	761.5	80.0	30.0	68	sw.			2		6					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.93	760.2	29.99	761.7	80.0	26.7	78	w.			4		0						Corpl. F. Norris, A. H. C
Glasgow, Observatory	30.01	762.2	30.22	767.6	61.5	16.4	74	wsw.			1		10					misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.02	762.5	30.20	767.1	63.4	17.4	63	nne.			2		10					overcast	The Staff.
Guernsey	29.88	758.9	30.18	766.6	64	17.8	78	nne.			1		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.17	766.3	30.20	767.1	64.6	18.1	57	n.	13	5.8			7					d. clouds	The Staff.
Leicester, Museum	29.94	760.5	30.18	766.6	66.6	19.2	58	n.			1		6					d. clouds	J. C. Smith.
Malta, Mediterranean	29.76	755.9	29.83	757.7	78.6	25.9	73	w.			2		5					d. clouds	H. Keene, A. H. C.
Nassau, Bahamas	30.02	762.5	30.07	763.8	84.2	29.0	81	n.			1		8					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.70	754.4	30.21	767.3	67.8	19.9	56	ne.			2		5					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.98	761.5	30.21	767.3	68.5	20.3	58	ne.			1		6					d. clouds	The Staff.
Plymouth	30.11	764.8	30.18	766.6	69.3	20.7	73	e.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			30.22	767.6	58.5	14.7	78						3					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.65	753.1	29.71	754.6	84.0	28.9	45	ne.			2		3					d. clouds	W. H. Lyne.
Sheffield	29.93	760.2	30.21	767.3	67.2	19.6	71	ne.			1		5			0	0	d. clouds	W. F. Cooper.
Siloth Rectory	30.19	766.8	30.22	767.6	64.9	18.3	73	w.			1		5			0	0	misty	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.24	768.1	67.1	19.5	60	n.	3	1.3			7					misty	I. New.
Stratfield Turgiss					69.3	20.7	60	ne.			3		3					d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.18	766.6	30.18	766.6	73	22.8	59	s.			2		4					d. clouds	W. Newcombe.
Valencia, Observatory	30.17	766.3	30.20	767.1	60.7	19.3	81	s.	6	2.7			3					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.99	754.1	29.73	755.1	72	22.2	90	sw.	11	4.9			10 s		sw.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.65	753.1	29.71	754.6	67	19.4	93	s.	7	3.1		2 k	8 s	s.	s.	0.60	15.2	cloudy	G. A. Blair.
Father Point, Quebec*	29.73	755.1	29.75	755.6	57	13.9	86	nw.	7	3.1		0	0			0.02	0.5	clear	J. McWilliams.
Fort Garry, Manitoba*	29.35	745.5	30.18	766.6	49	9.4	93	nw.	7	3.1		0	2 ks		nw.	0	0	fair	James Stewart.
Halifax, N. S*	29.70	754.4	29.83	757.7	65	18.3	100	s.	2	0.9			10 n			1.090	27.7	cloudy	A. Allison.
Kingston, Ontario*	29.33	745.0	29.65	753.1	67	19.4	97	ne.	4	1.8			10 n		ne.	0.12	3.0	rainy	A. P. Knight, M. A.
Montreal, Quebec*	29.51	749.5	29.71	754.6	65	18.3	81	ne.	8	3.6		2 cs	8 s			0.30	7.6	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	28.99	736.3	29.66	753.4	62	16.7	87	e.	7	3.1		5 k	2 ks	ne.	ne.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.00	736.6	29.65	753.1	69	20.6	100	calm	0	0			10 n		sw.	0.28	7.1	threatening.	H. Morgan.
Port Stanley, Ontario	29.05	737.9	29.66	753.4	69	20.6	93	w.	2	0.9			10 n		w.	0.02	0.5	cloudy	M. Payne.
Quebec, Quebec*	29.43	747.5	29.74	755.4	63	17.2	93	ne.			1	0	2 s		ne.	1.10	27.9	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.23	742.4	29.67	753.6	66	18.9	75	e.	2	0.9		3 c	2 s	w.	se.	0.19	4.8	fair	W. H. McIntyre.
Saugeen, Ontario*	28.96	735.6	29.64	752.8	67	19.4	87	e.	2	0.9			10 ks			imp.	imp.	cloudy	
St. Andrews, N. B	29.68	753.9	29.73	755.1	61	16.1	94	calm	0	0			fg			0	0	foggy	
Sydney, C. B*	29.78	756.4	29.83	757.7	68	20.0	93	sw.	19	8.5			10 n		sw.	0.07	1.8	light rain	T. C. Hill, C. E
Toronto, Ontario*	29.29	744.0	29.65	753.1	70	21.1	87	n.	3	1.3			10 ks		sw.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.73	755.1	29.80	756.9	59	15.0	100	sw.	5	2.2			fg.			0.01	0.3	rain & fog	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.32	719.3	29.74	755.4	66.0	18.9	94	w.			2	10kn	0			0.094	2.4	thnd'r storm.	Wm. Wylie.
St. Johns, Newfoundland	29.97?	761.2?	30.21?	767.3?	75	23.9	86	s.				5 k	5 s			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.24	768.1	30.26	768.6	65	18.3	83	ne.	8.1	3.6		0	2 s			0	0	clear	C. Hansen.
Cape Town, C. G. H. Obs'y	30.05	763.3	30.08	764.0	79.0	26.1	37	wsw.	16	7.2		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CHINESE (*Sub-series*).																			
Hankow													0			0.343	8.7	clear	N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.96	760.9	29.98	761.5	77.4	25.2	95	e.	6.7	3.0									M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.80	757.0	29.85	758.2	65.7	18.7	85	n.	11	5			10						Oversergent Fischer.
Fanöe	29.93	760.1	29.95	760.6	69.8	21.0	78	nw.			4		9						Overloerer Lauridsen
Godthaab, Greenland	29.66	753.3	29.70	754.4	48.6	9.2	80	ne.			2		1			0	0		S. Kleinschmidt.
Ivigtut	29.66	753.3	29.68	753.8	49.6	9.8		se.			4		10					raining	
Stykkisholm, Iceland	29.77	756.1	29.81	757.2	44.2	6.8	90	e.			6		10					raining	A. O. Thorlacius.
Thorshavn	30.04	763.0	30.08	763.9	57.6	14.2	86	sw.	13	6			8					foggy	Overloefer Bergh.
Vestervig	29.88	758.9	29.97	761.2	71.2	21.8	69	n.			2		2						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.38	746.2	29.61	752.0	77.7	25.4	42	nw.			1	0	0			0	0	clear	M. Labroue, Directo
Alençon, Normal School	29.59	75[illegible].6	30.14	765.6	60.1	15.6	85	n.			4		k	n.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.91	759.6	30.16	766.1	61.5	16.4	73	nne.			3		10 n			0	0	covered	M. Fénéon, Command't.
Avignon, Normal School	29.78	756.5	29.86	758.5	78.8	26	51	n.			4		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.55	750.6	30.10	764.5	63.7	17.6	63	ne.			1		9			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.89	759.3	30.16	766.0	63.0	17.2	50	ne			2		10		ne.	0	0	covered	M. Frère Eugène Mar
Besançon, Normal School	29.07	738.4	29.94	760.5	83.8?	28.8?	84	ne.			1		2		ne.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.71	754.6	29.99	761.0	75.6	24.2	38	ne.			2		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.51	749.5	30.05	763.2	71.6	22	45	n.							n.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.91	759.6	30.15	765.8	71.6	22.0	51	ene.			2		2		e.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.09	764.3	30.17	766.3	52.2	11.2	89	ne.			2		5		ne.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.78	756.3	30.09	764.2	64.0	17.8	72	n.			1		5	nne.	n.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School.	29.60	751.8	30.11	764.7	60.8	16	62	ne.			1		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.69	728.6	30.00	762.1	68.0	20.0	53	n.			2		8			0	0	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.19	741.3	30.00	762.1	70.5	21.4	40	ene.			1		4		nne.	0	0		M. de Villemontée, Dir.
Commercy, Normal School.	28.16	715.2	30.09	764.2	60.8	16	100	nw.			1		kn	nw.	nw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.32	694.0	29.71	754.6	81.3	27.4	30	n.			2	0	4 k		s.	0	0		M. Jeanginard, Director.
Gréasque, du Rhone	28.76	730.4	29.81	757.1	86.7	30.4	25	sw.			2		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.12	739.7	29.87	758.6	68.4	20.2	59	nnw.			2	0	2 k		ne.	0	0	slightly cl'dy.	M. Ablard, Director.
Lamballe, Normal School.					72.0	22.2	50	e.			3	0	2 ks		e.	0	0	clear	M. Olliraault, Director.
Lescar, Normal School	29.34	745.1	29.87	758.8	84.2	29.0	33	n.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.04	762.9	30.14	765.5	78.3	25.7	74	ene.			1		2	e.	n.	0	0	¼ covered	Lt. T. Carre, Director.
Lyon, St. Genis-Laval	28.97	735.7	29.99	761.8	68.2	20.1	50	nne.			1	0	5 n		n.	0	0	hazy	M. André, Director.
Mans, Normal School	29.82	757.5	30.13	765.2	66.7	19.3	96	ene.			4		10		ene.	0	0	covered	M. Piboen, Director.
Marseille, Observatory	29.58	751.4	29.84	758.0	83.1	28.4	39	w.			1		1			0	0		M. Stephan, Director.
Montlouis	24.85	631.3	29.70	754.3	70.3	21.3	39	se.	16.8	7.5				e.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.72	755.0	29.85	758.1	85.3	29.6	81	s.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.29	744.0	30.06	763.6	60.1	15.6	78	w.			1		10 kn			0	0	foggy	M. Hasse, Director
Nantes. Observatory	29.96	761.0	30.12	765.1	72.5	22.5	57	nne.			1-3	0	9 k; kn		ene.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.76	756.0	29.87	758.6	89.8	32.1	20	s.	5.6	2.5			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.38	543.0			55.4	13.0		s.			1		1		s.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.91	734.4	29.93	760.3	75.2	24	46	s.			4		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.20	640.1			47.1	8.4	87	nne.			4		8			0.012	0.3	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.05	763.3	30.08	764.1	77.0	25.0	100	e.			4		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.86	758.4	30.07	763.7	70.9	21.6	58	ne.			3		5	sw.		0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.86	707.7	29.92	760.0	72.9	22.7	53	n.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.15	765.8	30.20	767.0	63.0	17.2	60	n.			3		10	ne.		0	0	covered	M. Brotier.
Saint Maur, Observatory	29.98	761.4	30.14	765.6	63.5	17.5	60	nne.			1		10		nne.	0	0		M. Renou, Director.
Toulouse, Observatory	29.29	743.9	30.01	762.3	84.2	29.0	33	n.			1		0			0	0	clear	M. Bailland, Director.
Tours	29.93	760.2	30.19	766.7	71.6	22.0	54	ne.			2		5	e.	ne.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.65	753.1	30.14	765.6	60.8	16.0	61	ne.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.86	758.5	30.15	765.9	61.0	16.1	60	ne.			2		10		ne.	0	0		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.58	726.0	30.00	762.1	60.6	15.9	74	nw.			2		9	nw.		0	0		Prof. Jnedt.
Bamberg	29.17	740.8	30.02	762.4	62.1	16.7	77	nw.			2	0	8 k		nw.	0.008	0.2		Prof. Dr. Hoh.
Berlin	29.71	754.6	29.88	759.0	63.5	17.5	73	nw.			2		10			0.043	1.1		Prof. Dr. Arndt.
Breslau	29.31	744.4	29.84	757.8	55.2	12.9	97	wnw.			4		10			0.906	23.0	raining	Royal University Obs'y.
Carlsruhe	29.61	752.0	30.04	763.0	66.6	19.2	59	ne.			1		9	nw.		0	0		Albert Senz.
Cassel	29.31	744.5	30.03	762.7	57.6	14.2	70	nw.			4		8	nw.		0.004	0.1		Dr. H. Möhl.
Frankfort-on-the-Main	29.69	754.0	30.04	763.0	65.7	18.7	63	nnw.			2		10			0.008	0.2		Physical Society.
Friedrichshafen	28.59	726.1	29.98	761.6	67.1	19.5	65	w.			3		5		w.	0	0		Wilhelm, Chief Tel.
Hamburg	29.88	759.0	29.98	761.4	65.1	18.4	64	nw.			4		10			0	0		E. Preller.
Kiel	29.91	759.8	29.93	760.2	65.5	18.6	72	nw.			3		10			0	0		Prof. Dr. G. Karsten
Leipsic, Astron'l Obs'y	29.56	750.7	29.97	761.2	63.3	17.4	68	nw.			3		9		nw.	0.110	2.8		H. Leppig, Asst.
Magdeburg	29.75	755.7	29.94	760.4	66.6	19.2	69	wnw.			4		10 ks		nw.	0.020	0.5		Dr. Assmann.
Memel	29.68	753.8	29.72	755.0	70.3	21.3	74	nnw.			3	0	2 k						Issermann.
Munich	28.20	716.3	30.06	763.6	64.6	18.1	61	n.			2		0	nw.		0.035	0.9		Dr. C. Lang.
Neufahrwasser	29.75	755.6	29.76	756.0	63.3	17.4	87	n.			1		3			0	0		A. Lottes.
Neustadt, Palatinate	29.49	749.0	30.02	762.6	63.9	17.7	70	n.			1		7			0	0		Dicknether.
Stuttgart	29.09	738.9	29.97	761.2	63.5	17.5	75	n.			1		10			0	0		Prof. Dr. Schoder.
Wustrow	29.90	759.5	29.93	760.2	61.7	16.5	90	wnw.			3		10 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.36	745.8	29.76	755.2	79.5	26.4		ne.			1.0		5			0.075	1.9		Schmidt & Wourlisch
INDIAN.																			
Kurrachee	29.58	751.3	29.63	752.6	85.0	29.4	67	wsw.	26.0	11.6			4		sw.	0	0	d. clouds	
Deesa	29.14	740.1	29.60	752.0	87.0	30.6	53	sw.	12.0	5.4			4	w.		0	0	d. clouds	
Bombay	29.73	755.1	29.77	756.1	79.5	26.4	88	wsw.	13.0	5.8			10		w.	0.04	1.0	overcast	
Poona, Yarrowda	27.90	708.7	29.70	756.0	76.3	24.6	76	wsw.	24.0	10.7			9	w.	w.	0.02	0.5	d. clouds	
Trichinopoly	29.54	750.2	29.81	757.2	86.0	30.0	53	nw.	2.0	0.9			10			0.04	1.0	overcast	
Bellary	28.26	717.8	29.73	755.2	76.5	24.7	78	w.	7.6	3.4			10			0	0	overcast	
Belgaum	27.25	692.1	29.81	757.1	70.1	21.2	94	wsw.	9.0	4.0			10		sw.	0.22	5.6	showery	
Lahore	28.74	730.0	29.45	748.1	93.1	33.9	57	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.59	726.2	29.46	748.2	92.4	33.6	62	w.	1.2	0.5			0			0	0	thund'r	
Agra	28.98	736.1	29.53	750.1	89.5	31.9	62	w.	6.0	2.7			2			0	0	d. clouds	
Nagpur	28.60	726.5	29.63	752.6	84.7	29.3	55	w.	4.0	1.8			0		w.	0	0	gloomy	
Jubbulpore	28.29	718.6	29.63	752.7	81.8	27.7	71	w.	5.1	2.3			8		w.	0	0	d. clouds	
Lucknow	29.15	740.3	29.51	749.6	90.1	32.3	62	wnw.	2.6	1.2			8			0	0	d. clouds	
Allahabad	29.22	742.4	29.53	750.1	87.8	31.0	69	sw.	2.0	0.9			3		sw.	0	0	d. clouds	
Patna	29.39	746.4	29.57	751.1	81.6	27.6	89	nne.	4.4	2.0			10	nne.	nne.	0.08	2.0	showery	
Hazaribagh	27.60	701.0	29.58	751.4	79.6	26.4	83	calm	7.3	3.3			10			0	0		
Cuttack	29.51	749.6	29.59	751.7	85.4	29.7	76	w.	4.0	1.8			8			0	0	d. clouds	
Calcutta, Alipore	29.55	750.6	29.58	751.2	82.6	27.8	88	nne.	4.0	1.8			10					thund'r st'm	
Dhubri	29.46	748.2	29.58	751.2	79.9	26.6	92	calm	0.8	0.4			10			5.46	138.7	overcast	
Chittagong	29.53	749.9	29.62	752.2	79.4	26.3	90	s.	3.4	1.5			9			0	0	d. clouds	
Sibsagar	29.24	742.6	29.57	751.0	84.2	29.0	82	nw.	4.0	1.8			10	w.	w.	0.03	0.8	d. clouds	
Jeypore	28.15	715.0	29.56	750.8	87.7	30.9	50	wsw.	7.2	3.2			5		wsw.	0	0	d. clouds	
Zanzibar, Africa	30.11	764.8			81.2	27.3	51	se.	7.8	3.5			3		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.49	749.0	29.88	759.0	75.9	24.4	39	w.	1.3	0.6			6			0	0		Prof. Giovanni Clodig.
Milan	29.37	745.9	29.86	758.4	79.9	26.6	30	n.	5.6	2.5			3			0	0		Prof. Schiaparelli.
Padua	29.76	755.9	29.87	758.6	76.1	24.5	49	ese.	10.5	4.7			5			0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.96	735.5	29.82	757.5	79.2	26.2	39	e.	6.3	2.8			0			0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Genoa	29.65	753.0	29.83	757.7	78.3	25.7	67	sw.	4.3	1.9			0			0	0		Prof. G. M. Garibaldi.
Mondovi	27.98	710.8	29.81	757.2	76.1	24.5	27	nw.			4		0			0	0		Prof. D. O. Bruno
Pesaro	29.79	756.7	29.84	757.9	76.3	24.6	53	eno.	13.0	5.8			7			0	0		Prof. Luigi Guidi.
Florence	29.55	750.5	29.79	756.7	82.0	27.8	29	nw.			2		2			0	0		Prof. Costantino Pitter.
Leghorn	29.68	753.8	29.76	755.9	79.9	26.6	55	w.	1.3	0.6			3			0	0		Prof. P. Monte.
Rome	29.69	754.0	29.85	758.2	70.0	21.1	61	n.	9.4	4.2			9			0.441	11.2		Prof. P. Tachini.
Lecce	29.57	751.0	29.81	757.1	78.3	25.7	47	ne.	9.4	4.2			7	e.		0.079	2.0		Prof. C. de Giorgi
Cosenza	28.96	735.5	29.81	757.1	81.3	27.4	73	nw.	3.1	1.4			8	n.		0.059	1.5		Prof. D. Conti.
Cagliari	29.65	753.0	29.83	757.7	82.8	28.2	49	s.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.62	752.3	29.86	758.4	80.6	27.0	52	ne.	10.5	4.7			1			0	0		Prof. G. Clacciatore.
Syracuse	29.79	756.6	29.83	757.7	81.3	27.4	62	ne.	6.3	2.8			0	wnw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.32	744.8	29.82	757.5	82.4	28.0	47	w.	1.8	0.8			3	w.		0	0		Prof. T. Brioschi.
Stelvio	22.20	564.0			44.1	6.7	50	ene.			2		8			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.24	565.0			51.4	10.8	68	wnw.			2		9			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	30.08	764.0	30.11	764.8	76.8	24.9	90	calm	0	0		0	4 s			0.542	13.8	fair	K. Ogawa.
Hakodate	30.08	764.0	30.09	764.3	73.0	22.8	94	wsw.	1.2	0.5			5			0.014	0.4	fair	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.96	761.0	30.13	765.3	77.8	25.4	85	nnw.	2.1	0.9		0	3 sck			0	0	fair	M. Fojima.
Nagasaki, I. M. Obs'y	29.87	758.6	30.06	763.5	80.6	27.0	73	e.	2.4	1.1		0	2 s			0	0	clear	
Nemuro	30.09	764.3	30.15	765.8	67.0	19.4	93	calm	0	0		0	2			0	0	clear	
Niigata	30.11	764.8	30.14	765.5	77.8	25.4	81	ne.	0.4	0.2		0	4 cks			0	0	fair	M. Morita.
Nobiru	30.12	765.1	30.14	765.5	75.1	23.9	98	calm	0.8	0.4			10 s			0.335	8.5	covered	H. Midzushina.
Osaka	30.09	764.3	30.10	764.5	79.5	26.4	83	w.	4.0	2.1		1 c	0			0	0	clear	
Sapporo					73.5	23.1	94	nw.	1.2	0.5			8			0	0	cloudy	
Tokei Obs'y, Yeddo	30.09	764.3	30.16	766.1	76.2	24.6	89	ssw.	4.0	1.8		0	0			0	0	clear	The Staff.
Wakayama	30.10	764.5	30.15	765.8	78.0	25.6	88	calm	0	0			10			inap.	inap.	cloudy	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	30.00	762.0	30.20	767.1	72.9	22.7	67	e.	17.0	7.6		0	2 k		e.	0.22	5.6	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.4	29.94	760.4	59.4	15.2	98	calm	0	0			10 k;kn		sw.	0.503	14.3	rainy	Prof. Vicente Fernandez.
Leon.†	24.38	619.2	30.04	763.0	60.1	15.6	94	n.			1		9 ck;n		se.	1.095	27.8	very cloudy	Prof. M. Leal.
Mazatlan	29.68	753.9	29.94	760.4	74.5	23.6	95	e.	5.3	2.3			10 n		se.	0.650	16.5	rainy	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	588.0	30.19	766.8	52.9	11.0	86	calm				0	7 kn			0.111	2.8	cloudy	The Staff.
Morelia	24.21	615.0	30.24	768.0	60.1	15.6	54	se.			2	1	2	e.	e.	0.315	8.0	clear	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.97	608.9	29.95	760.7	60.8	16.1	96	calm			0		10 n			1.200	32.0	raining	M. Y. de Leon, M. E
Puebla, Catholic Institute	23.44	595.4	30.28	769.1	48.9	9.4	80	calm				0	0			0	0	clear	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D.
Zacatecas	22.65	574.9	30.23	767.8	52.4	12.8	84	n.	6.3	2.8		4 cs	0			0	0	½ cloudy	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.16	766.1	30.16	766.1	63.5	17.5		n.			4					0	0		
Groningen	30.01	762.3	30.07	763.7	60.6	15.9		n.			2					0.043	1.1		
Helder	30.11	764.8	30.11	764.8	58.5	14.7		nnw.			4					0	0		
Hellevoetsluis	30.14	765.5	30.14	765.5	61.5	16.4	74	n.			1					0.004	0.1		
Utrecht	30.10	764.6	30.15	765.8	61.9	16.6	66	nnw.			2		8			0.008	0.2	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.00	762.0	30.06	763.6	61.2	16.2	69	nnw.	18	8			1			0	0		
Brono	30.00	762.0	30.04	763.0	59.7	15.4	80	sw.	7	3			10			0.012	0.3		
Christiania	29.80	757.0	29.94	760.5	74.7	23.7	52	nne.	7	3			1			0	0		
Gjæsvær	29.84	757.9	29.86	758.5	51.8	11.0		calm			0		10					foggy	
Lodingen	29.91	759.7	29.96	760.9	58.8	14.9	74	wsw.			6		3			0.827	21.0		
PORTUGUESE.																			
Angra, Azores					74.7	23.7	72	nne.	9.4	4.2			2			0	0		Dr. J. A. Sampaio
Campo Major	28.97	735.9	29.94	760.4	75.2	24.0	54	ssw.	4.3	1.9			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.02	762.5	30.11	764.7	73.4	23.0	63	calm	1.3	0.6			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.65	753.2	30.01	762.2	67.1	19.5	76	wsw.	11.9	5.3			10			0	0		The Staff.
Ponta Delgada, Azores	29.99	761.7	30.06	763.4	80.6	27.0	68	n.	7.4	3.3			4			0.114	2.9		
Saint Paul de Lotando	29.89	759.2	30.10	764.4	71.1	21.7	77	wnw.			1		0			0	0		
Serra da Estrella	25.36	644.1	29.89	759.1	69.3	20.7	44	se.	14.3	6.4			0			0	0		
RUSSIAN.																			
Akmolinski	28.58	725.9	29.57	751.0	90.0	32.2	26	sw.	4	2		3 c	0			0	0		Major K. Lasarew.
Archangel	29.00	751.9	29.62	752.4	72.1	22.3	65	n.	9	4			9 k			0	0		Capt. Sselliwerstow.
Astrakhan	29.75	755.7	29.67	753.6	84.7	29.3	38	ese.	2	1		0	7 ks			0	0		Capt. Wisganow.
Barnaul	29.25	743.0	29.72	755.0	73.9	23.3	65	calm	0	0			0			0.087	1.7		Meteorological Obs'y.
Dorpat	29.43	747.5	29.66	753.3	78.6	25.9	54	ne.	9	4		0	4 k			0	0		Observatory.
Ekaterinburg	28.61	726.8	29.54	750.3	64.6	18.1	52	wsw.	18	8			10			0.020	0.5	raining	Meteorological Obs'y.
Irkutsk																			
Kasan	29.16	740.7	29.42	747.2	67.6	19.8	48	sw.	13	6		0	3 k			blank	blank		Observatory.
Kertch	29.66	753.4	29.68	753.9	75.7	24.3	56	se.	18	8		0	4 ks			0	0		Lagorio & Sastyrez.
Kieff	28.95	735.2	29.56	750.9	58.5	14.7	88	w.	16	7			gk;ks.n						Observatory.
Lugan	29.30	744.3	29.50	749.2	77.5	25.3	31	wsw.	45	20			0			0	0		Meteorological Obs'y.
Moscow	28.93	734.9	29.38	746.3	67.5	19.7	57	nw.	7.8	3.5		0	3 ks						Meteorological Obs'y.
Nikolaiev	29.59	751.6	29.66	753.4	80.2	26.8	44	s.	9	4		0	4 kn			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.94	760.4	30.08	764.0	80.8	27.1	63	calm	0	0		0	8 n			0	0		Physical Observatory.
St. Petersburg	29.59	751.6	29.61	752.0	80.8	27.1	46	nne.	9	4		0	3 k			0	0		Central Physical Obs'y.
Semipalatinsk	29.13	739.9	29.73	755.2	89.6	32.0	35	wnw.	4	2			0			0	0		Major Lasarew
Tashkend, Laboratory	28.05	712.5	29.50	749.2	90.0	32.2	50	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.30	718.7	29.62	752.3	83.3	28.5	48	n.	18	8		0	8 n			0	0		Physical Observatory.
Vladivostock	30.04	763.0	30.11	764.7	72.3	22.4	86	calm	0	0		0	0 k						
Warsaw	29.24	742.7	29.65	753.1	63.5	17.5	90	w.	4	2			10 ks						Astronomical Obs'y.
Wilna	29.18	741.2	29.58	751.2	77.2	25.1	62	nne.	4	2			4			0.043	1.1		Berg, Assistant.
Yeniseisk	29.59	750.9	29.84	757.8	75.7	24.3	72	sw.	7	3			8			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt.			30.18	766.6	59	15.0	94	sw.			4		10			0.2	5.	raining	J. Youngclause.
North Unst			30.16	766.1				nw.			3		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.77	756.1	29.87	758.7	82.4	28.0	68	s.	2.2	1.0		0	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.91	759.7	29.97	761.2	84.0	28.9	43	nw.	2.7	1.2		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.03	686.6	29.84	758.0	79.3	26.3	33	ne.	6.7	3.0		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.71	703.7	29.76	755.8	95.0	35.0	32	s.	5.1	2.3		0	3			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.73	755.2	29.89	759.1	84.6	29.2	61	ne.	4.3	1.9		1	3	w.		0	0	clouds	Olayo Diaz, Director
Oviedo	29.13	739.9	29.98	761.6	71.2	21.8	86	nw.	3.4	1.5		0	1 s			0	0	clear	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.00	736.7	29.87	758.7	71.4	21.9	75	sw.	4.3	1.9		0	7			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.00	762.1	30.07	763.8	78.0	25.6	85	ene.	0	0		2 c;ck	0	e.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.73	755.1	29.78	756.5	76.4	24.7	90	sw.	23.1	10.3			10 n		sw.	3.402	86.4	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.91	759.6	30.00	762.1	74.8	23.8	59	w.	10.6	4.7		0	3		wsw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.00	761.9	30.09	764.2	82.4	28.0	85	se.	4.0	1.8		0	2 k		se.	0	0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.00	751.8	29.73	755.1	78.4	25.6	89	s.	6.8	3.0			10 n		ssw.	0.03	1.5	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.78	756.3	29.82	757.3	77.0	25.0	54	calm			0		10			0	0		
Umea	29.82	757.4	29.87	758.7	65.8	18.8	87	nw.			2		9			1.012	25.7		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Hernosand	29.84	758.0	29.89	759.3	73.0	22.8	59	nnw.			6		5			0	0		
Stockholm	29.70	754.4	29.88	758.9	73.4	23.0	55	nne.			4		0			0.154	3.9		
Wisby	29.69	754.1	29.75	755.6	66.2	19.0	84	nne.			4		0			0.102	2.6		
Sub-series.																			
Upsala	29.78	756.5	29.87	758.7	71.4	21.9	69	nne.	12.8	5.7			6	ssw.		0	0		S. G. Fineman.
Swiss.																			
Geneva	28.57	725.7	29.95	760.8	69.4	20.8	60	nnw.			3		0			0	0	clear	The Observatory
Turkish.																			
Constantinople			29.77	756.1	77.0	25.0	42	nne.	19	8.5			5		sw.	0	0		The Observatory.
Valona			29.94	760.5	79.2	26.2		w.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.71	754.5	88.0	31.1	49	w.			2	0	1 k		w.	0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.65	753.1	29.73	755.1	74	23.3	76	s.	4	1.8			10 s		sw.	1.01	25.7	cloudy	J. O. Barnes.
Alpena, Michigan	29.06	738.1	29.70	754.4	57	13.9	93	nw.	7	3.1		0	5 s			0.12	3.0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.18	639.6	29.90	759.4	59	15.0	72	e.	4	1.8		0	0			0.01	0.3	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	27.43	696.7	30.18	766.6	66	18.9	56	ne.	4	1.8		3 k	0	sw.		0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.84	732.5	29.99	761.7	76.0	24.3	79	w.	9	4.0		0	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	29.76	755.9	29.76	755.9	75.2	24.0	88	w.	3	1.3		0	0			0.04	1.0	clear	Jas. M. Watson.
Augusta, Georgia	29.77	756.1	29.96	761.0	79	26.1	74	w.	3	1.3		0	0			0	0	clear	John Healy.
Baltimore, Maryland	29.75	755.6	29.80	756.9	76	24.4	82	sw.	1	0.4		5 ck	fg.	sw.		0.01	0.3	fair	Robert Seyboth.
Barnegat, New Jersey	29.77	756.1	29.79	756.7	76.0	24.4	90	sw.	7	3.1		0	0			0.06	1.5	clear	G. A. Hill.
Bennett, Fort, Dakota	28.64	727.4	30.18	766.6	63	17.2	84	n.	2	0.9		0	2 s			0.17	4.3	clear	A. Pritchard.
Benton, Fort, Montana	27.44	697.0	30.23	767.8	67	19.4	78	calm	0	0		7 c	0			0	0	fair	S. Wheaton.
Behring Island, Behring Sea	29.86	758.4	29.88	758.9	50.1	10.1		s.	16	7.2			10 s			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.44	722.4	30.19	766.8	57	13.9	93	n.	2	0.9		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.74	755.4	29.77	756.1	74	23.3	90	w.	12	5.4		0	8 s		w.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.18	690.4	29.93	760.2	75	23.9	58	w.	4	1.8		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.60	751.8	29.75	755.6	74.0	23.3	84	sw.	6	2.7		8 ck	hz.	w.		0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.00	762.0	30.04	763.0	74.6	22.9	90	se.	2	0.9		2 cs	5 ks; s		se.	inap.	inap.	fair	M. McCarty.
Buffalo, New York	28.94	735.1	29.67	753.6	70.8	21.6	83	s.	14	6.3			10 n		sw.	0.03	0.8	light rain	Clarence Weaver.
Buford, Fort, Dakota	28.32	719.3	30.26	768.6	50	10.0	74	calm	0	0		0	sk.		calm	0	0	fair	A. H. Bell.
Burlington, Vermont	29.41	747.0	29.70	754.4	70.7	21.5	85	ne.	5	2.2			10 s		e.	0.42	10.7	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.58	751.3	29.97	761.2	71.7	22.1	92	w.	10	4.5		2 ck	3 s	w.	w.	0	0	fair	W. H. Ray.
Campo, California	27.43	696.7	29.93	760.2	59.5	15.3	78	e.	2	0.9		2 c	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	29.78	756.4	29.80	756.9	78	25.6	88	se.	8	3.6		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.75	755.6	29.78	756.4	74.8	23.8	88	sw.	4	1.8		2 cs	0			1.12	28.4	clear	W. E. Smith.
Cape Mendocino	29.48	748.8						n.	8	3.6			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	30.04	763.0	30.06	763.5	81	27.2	74	nw.	7	3.1		0	0			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.04	737.6	29.83	757.7	70.0	21.1	84	w.	7	3.1			10 s		nw.	0.19	4.8	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.88	758.9	29.93	760.2	81	27.2	74	w.	9	4.0		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.04	737.6	29.87	758.7	80.0	26.7	69	w.	3	1.3		0	0			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.17	740.9	29.98	761.5	73.5	23.1	86	sw.	2	0.9		0	4 k		w.	0.17	4.3	fair	B. L. Goulding.
Cheyenne, Wyoming	24.31	617.5	30.01	762.2	60.2	15.7	50	nw.	8	3.6		6 cs	0	n.		0	0	fair	E. McGovern.
Chicago, Illinois	29.05	737.9	29.74	755.4	69.0	20.6	87	w.	8	3.6		4 k	0	sw.		0.23	5.8	fair	J. Mitchell.
Chincoteague, Virginia	29.79	755.9	29.78	756.4	79	26.1	91	s.	8	3.6		0	3 k		sw.	0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.18	741.2	29.82	757.4	75	23.9	82	sw.	5	2.2		7 k	0	sw.		0.07	1.8	fair	J. F. Harrold.
Cleveland, Ohio	29.01	736.8	29.73	755.1	69.6	20.9	86	sw.	8	3.6		5 k	0	w.		0.11	2.8	fair	J. B. Newlin.
Coleman City, Texas	28.34	719.8	30.08	764.0	68	20.0	90	sw.	3	1.3		10 cs	0			c	0	cloudy	L. Dorman.
Columbus, Ohio	28.95	735.3	29.78	756.4	71	21.7	84	sw.	8	3.6		0	8 ks		w.	0.04	1.0	cloudy	D. Cuthbertson.
Concho, Texas	28.20	716.3	30.06	763.5	69	20.6	76	calm	0	0		3 ck	1 s	s.		0	0	fair	W. W. McConihe.
Custer, Fort, Montana	27.11	688.6	30.17	766.3	69	20.6	76	ne.	3	1.3		4 k	0	calm		0	0	fair	W. B. Lamar.
Davenport, Iowa	29.23	742.4	29.86	758.4	68	20.0	78	nw.	8	3.6		0	0			0.12	3.0	clear	R. R. Martin.
Davis, Fort, Texas	25.30	642.6	29.94	760.5	61	16.1	72	n.	12	5.4		0	6 ks		n.	0	0	fair	J. Williams.
Dayton, Washington T'y	28.23	717.0	29.94	760.5	67.8	19.9	68	s.	2	0.9		0	5 s			0	0	fair	H. Clifford.
Deadwood, Dakota	25.66	651.8	30.09	764.3	63	17.2	90	n.	5	2.2			fg.			0	0	dense fog	G. W. Scott.
Decatur, Texas																			D. J. Carr.
Delaware Breakwater, Del	29.76	755.9	29.78	756.4	75	23.9	94	sw.	11	4.9		1 c	0	s.		1.04	26.4	clear	T. S. Townsend.
Denison, Texas	29.31	744.5	30.09	764.3	70.8	21.6	84	w.	6	2.7		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.98	634.5	30.00	762.0	63.4	17.4	48	s.	6	2.7		0	1 s			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.12	739.6	30.00	762.0	65	18.3	73	n.	6	2.7		7 cs	0	n.		inap.	inap.	fair	F. W. Conrad.
Detroit, Michigan	29.02	737.1	29.71	754.6	66.0	18.9	90	n.	10	4.5			10 s		w.	0.50	14.2	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.54	699.5	30.02	762.5	67	19.4	76	s.	2	0.9		1 k	0	ne.		0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.17	740.9	29.86	758.4	65	18.3	73	nw.	9	4.0		0	hz.			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.26	743.2	29.98	761.5	57	13.9	74	w.	8	3.6			10 s		w.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.32	744.7	30.11	764.8	69.1	20.6	100	se.	6	2.7			10 n			1.88	47.8	light rain	F. Belford.
Eagle Rock, Idaho	25.47	646.9	30.02	762.5	63	17.2	60	n.	6	2.7		0	3 ks		se.	0	0	clear	J. M. Clifford.
Eastport, Maine	29.68	753.9	29.74	755.4	60.0	15.6	93	s.	3	1.3			fg		s.	0.04	1.0	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.34	694.4	29.98	761.5	61	16.1	84	nw.	2	0.9		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.38	670.0	29.98	761.5	64	17.8	73	ne.	1	0.4		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.01	736.8	29.72	754.9	78	25.6	97	calm	0	0			10 n			0.08	2.0	thund'r st'm	Peter Wood.
Escanaba, Michigan	29.12	739.6	29.76	755.9	59	15.0	75	nw.	11	4.9		3 c	4 k	nw.	nw.	0	0	fair	George Heathcote.
Fredericksburg, Texas	28.40	721.3	30.11	764.8	71	21.7	90	calm	0	0			10 s			0.45	11.4	cloudy	Frank Halwegler.
Galveston, Texas	30.06	763.5	30.11	764.8	79	26.1	91	e.	3	1.3		2 c	3 ks		se.	0.04	1.0	fair	E. O'C. Macnerney.
Grand Haven, Michigan	29.06	738.1	29.71	754.6	67.0	19.4	84	ne.	4	1.8			10 s		w.	0	0	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.32	643.1	29.89	759.2	68.4	20.2	76	ne.	2	0.9		0	0			0.02	0.5	clear	Robert O. Lord.
Hatteras, North Carolina	29.82	757.4	29.84	757.9	82	27.8	88	sw.	10	4.5		hz.	0			0	0	clear	R. M. Crawford.
Helena, Montana	26.06	661.9	30.15	765.8	68	20.0	76	sw.	4	1.8		0	6 s			0	0	fair	N. C. Smith.
Henrietta, Texas	29.16	740.7	30.16	766.1	72.0	22.2	71	s.	2	0.9		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.78	731.3	30.12	765.0	57.1	13.9	83	nw.	6	2.7		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.04	737.6	29.81	757.2	69.5	20.8	89	sw.	5	2.2			10 n		sw.	0.01	0.3	light rain	O. Schutze
Indianola, Texas	30.07	763.8	30.10	764.5	79.4	26.3	77	e.	7	3.1		4 cs	4 ks	sw.	s.	0.11	2.8	cloudy	I. A. Reed.
Jacksboro, Texas	28.97	735.8	30.09	764.3	69	20.6	78	sw.	2	0.9		0	2 s			0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.97	761.2	30.01	762.2	84	28.9	67	w.	4	1.8		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.78	705.6	30.21	767.3	64	17.8	65	ne.	6	2.7		0	sk.			0	0	clear	A. Schneider.
Keokuk, Iowa	29.25	742.9	29.88	758.9	71.0	21.7	82	nw.	6	2.7		0	0			0.02	0.5	clear	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	80.0	30.0	74	n.	5	2.2		0	0			0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	29.83	757.7	29.85	758.2	81	27.2	88	sw.	8	3.6		hz.	0			0	0	clear	E. A. Beals.
Knoxville, Tennessee	28.94	735.1	29.95	760.7	70.3	21.3	95	sw.	6	2.7		2 ck	6 s		w.	0.02	0.5	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.12	739.6	29.87	758.7	65	18.3	58	nw.	8	3.6		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.14	740.1	30.00	762.0	72	22.2	82	nw.	2	0.9		8 cs	0	w.		0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.09	738.9	29.90	759.4	84.0	28.9	44	e.	8	3.6			10 s			0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.73	755.1	30.04	763.0	73	22.8	99	sw.	5	2.2		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.60	751.8	29.99	761.7	59.2	15.1	81	ne.	1	0.4			10 s			0	0	cloudy	Egbert van Dyke.
Louisville, Kentucky	29.30	744.2	29.84	757.9	72	22.2	90	sw.	6	2.7			10 s; sk			0.05	1.3	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.14	740.1	29.81	757.2	75.2	24.0	76	w.	2	0.9		2 c	0			inap.	inap.	clear	Lewis Duane.
Macon, Fort, North Carolina	29.84	757.9	29.85	758.2	82	27.8	91	sw.	3	1.3		hz.	0	calm		0.90	22.9	clear	F. P. Chaffee.
Madison, Wisconsin	28.83	732.3	29.81	757.2	63	17.2	78	nw.	14	6.3		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.91	658.1			58	14.4	86	n.	4	1.8		0	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.94	709.7	30.15	765.8	69	20.6	84	calm	0	0			10 s			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.07	738.4	29.78	756.4	57	13.9	80	nw.	10	4.5			10 s		nw.	0	0	threatening	J. Gilligan.
Memphis, Tennessee	29.69	754.1	30.02	762.5	74	23.3	82	w.	4	1.8		8 cs	0	sw.		0.30	7.6	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.02	737.1	29.75	755.6	64	17.8	90	w.	12	5.4			10 s			0.04	1.0	cloudy	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.89	683.0	30.11	764.8	72	22.2	68	ne.	4	1.8	.....	8 k	0	e.	.....	0	0	cloudy	J. H. Jones.
Mobile, Alabama	30.05	763.3	30.09	764.3	77.4	25.2	89	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. A. Read.
Montgomery, Alabama	29.82	757.4	30.05	763.3	77.6	25.3	83	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. B. McLaughlin.
Moorhead, Minnesota	29.16	740.7	30.13	765.3	57	13.9	80	n.	12	5.4	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.80	731.5	29.80	756.9	71.0	21.7	94	sw.	4	1.8	.....	.....	10 n	.....	sw.	0.35	8.9	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.76	603.5	29.84	757.9	52.5	11.4	96	nw.	16	7.2	.....	.....	fg.	.....	nw.	0.08	2.0	dense fog	J. G. Pinsley.
Nashville, Tennessee	29.38	746.2	29.94	760.5	75.5	24.2	82	w	8	3.6	.....	1 ck	4 ks	w.	w.	0.26	6.6	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.63	752.6	29.74	755.4	72	22.2	90	sw.	4	1.8	.....	50;ck	fg.	sw.	.....	inap.	inap.	fair	J. H. Sherman.
New London, Connecticut	29.70	754.4	29.76	755.9	75	23.9	90	s.	7	3.1	.....	5 k	2 s	sw.	sw.	0.02	0.5	fair	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.09	764.3	78.5	25.8	80	nw.	3	1.3	.....	0	sk.	.....	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	29.71	754.6	29.76	755.9	72.8	22.7	95	sw.	13	5.8	.....	1 e	2 ks	.....	sw.	0	0	clearing	W. McGillivray.
New York, New York	29.60	751.8	29.77	756.1	71	21.7	94	sw.	4	1.8	.....	4 cs	fg	sw.	.....	0.21	5.3	fair	J. B. Merrill.
Norfolk, Virginia	29.78	756.4	29.80	756.9	80	26.7	82	w.	6	2.7	.....	0	hz.	.....	.....	0.35	8.9	clear	Wm. Davis.
North Platte, Nebraska	27.22	691.4	30.02	762.5	64.6	18.1	80	se.	4	1.8	.....	0	2 s	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.98	761.5	30.02	762.5	57.0	13.9	86	calm	0	0	.....	4 ck	0	s.	.....	0	0	fair	J. Dascomb.
Ocglaamie, Pt. Barrow, Alas.	29.80	756.9	29.82	757.4	39.8	4.3	97	sw.	5	2.2	.....	1 c	1 s	w	w.	0	0	clear	P. H. Ray.
Omaha, Nebraska	28.90	734.0	30.04	763.0	67.1	19.5	90	nw.	10	4.5	.....	0	8 ks	.....	nw.	0.12	3.0	clearing	A. Pollak.
Oswego, New York	29.33	745.0	29.65	753.1	76.5	24.7	74	s.	5	2.2	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	S. W. Beall.
Palestine, Texas	29.59	751.6	30.13	765.3	74.0	23.3	90	s.	2	0.9	.....	10 ck	0	s.	.....	0.11	2.8	cloudy	L. M. Pindell.
Pensacola, Florida	30.04	763.0	30.08	764.0	77.7	25.4	95	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	M. McGauran.
Philadelphia, Pa	29.68	753.9	29.78	756.4	75	23.9	85	calm	0	0	.....	5 cs	2s;fg	w.	sw.	0.06	1.5	fair	T. F. Townsend.
Pike's Peak, Colorado	18.19	462.0	29.98	761.5	36	2.2	61	ne.	8	3.6	.....	2 cs	0	.....	.....	inap.	inap.	clear	L. M. Dey.
Pioche, Nevada	24.23	615.4	29.93	760.2	62.2	16.8	75	nw.	6	2.7	.....	0	5 ks	.....	.....	0.05	1.3	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	28.97	735.8	29.76	755.9	70.1	21.2	91	s.	6	2.7	.....	.....	10 s	.....	sw.	0.14	3.6	cloudy	J. B. Turton.
Poplar River, Montana	28.21	716.5	.....	.....	.....	.....	.....	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.10	764.5	30.11	764.8	78.8	26.0	88	s.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	M. Hermann.
Port Huron, Michigan	29.02	737.1	29.68	753.9	63.8	17.7	100	calm	0	0	.....	.....	10 n	.....	.....	1.79	45.5	heavy rain	W. O. Bailey.
Portland, Maine	29.64	752.8	29.69	754.1	71.0	21.7	82	calm	0	0	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	W. W. Eichelberger.
Portland, Oregon	29.90	759.4	29.97	761.2	61.0	16.1	87	calm	0	0	.....	8 ck	0	w.	.....	0	0	cloudy	M. L. Hearne.
Prescott, Arizona	24.91	632.7	29.89	759.2	63	17.2	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass	29.72	754.0	29.74	755.4	74	23.3	90	sw.	8	3.6	.....	3 cs	4 s	sw.	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.03	762.7	30.04	763.0	80.5	26.9	81	n.	6	2.7	.....	3 c	0	calm	.....	0	0	clear	W. J. Evans.
Red Bluff, California	29.61	752.1	29.97	761.2	66.1	18.9	63	nw.	3	1.3	.....	0	2 s	.....	s.	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.84	757.9	30.08	764.0	76	24.4	85	e.	5	2.2	.....	2 ck	0	e.	.....	0.22	5.6	clear	H. S. Miles.
Rochester, New York	29.00	736.6	29.65	753.1	69	20.6	93	sw.	8	3.6	.....	3 ck	0 s	s.	sw.	0.43	10.9	cloudy	E. W. McGann.
Roseburg, Oregon	29.49	749.0	30.03	762.7	53	11.7	86	calm	0	0	.....	0	1 s	.....	s.	0	0	clear	J. J. Nanry.
Sacramento, California	29.89	759.2	29.96	761.0	61.1	16.2	65	se.	6	2.7	.....	0	2 s	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.32	744.7	29.90	759.4	72.0	22.2	98	w.	9	4.0	.....	0	1 k;hz	.....	w.	0.07	1.8	clear	J. H. Webber.
St. Paul, Minnesota	29.12	739.6	29.96	761.0	60.0	15.6	75	nw.	11	4.9	.....	0	0	.....	.....	inap.	inap.	clear	P. F. Lyons.
St. Vincent, Minnesota	29.31	744.5	30.16	766.1	50	10.0	93	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.77	654.5	29.96	761.0	75	23.9	50	ne.	4	1.8	.....	4 k	0	sw.	.....	inap.	inap.	fair	J. Craig.
San Antonio, Texas	29.41	747.0	30.10	764.5	70.0	21.1	94	n.	5	2.2	.....	6 cs	0	.....	.....	1.48	37.6	fair	T. J. Kenan.
San Diego, California	29.88	758.9	29.96	761.0	66.6	19.2	88	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.05	737.9	29.71	754.6	69.4	20.8	90	w.	12	5.4	.....	.....	10 s	.....	.....	0.50	12.7	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.74	755.4	29.76	755.9	74.0	23.3	85	w.	9	4.0	.....	1 k	0	.....	.....	0.12	3.0	clear	B. A. Blundon.
San Francisco, California	29.98	761.5	30.05	763.3	52	11.1	90	sw.	5	2.2	.....	1 cs	fg.	se.	sw.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.49	595.6	29.98	761.5	54	12.2	74	ne.	2	0.9	.....	0	0	.....	.....	0.15	3.8	clear	H. U. Jones.
Savannah, Georgia	29.88	758.9	29.97	761.2	85	29.4	61	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.66	677.2	30.19	766.8	61	16.1	93	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.87	758.7	30.10	764.5	75	23.9	85	sw.	2	0.9	.....	0	0 s	.....	.....	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.88	733.5	30.06	763.5	70.5	21.4	77	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Silver City, New Mexico	24.40	619.7	29.86	758.4	57	13.9	62	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.92	760.0	29.98	761.5	53.5	11.9	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Smith, Fort, Arkansas	29.59	751.6	30.05	763.3	69.3	20.7	93	calm	0	0	.....	.....	fg.	.....	.....	0.06	1.5	dense fog	J. B. Campbell.
Smithville, North Carolina	29.83	757.7	29.87	758.7	80	26.7	72	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.03	711.9	30.03	762.7	73	22.8	76	calm	0	0	.....	10 k	0	.....	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.20	741.7	29.86	758.4	71	21.7	87	nw.	9	4.0	.....	0	hz.	.....	.....	0.10	2.5	clear	T. B. Jennings.
Springfield, Massachusetts	29.61	752.1	29.74	755.4	74.3	23.5	90	s.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	T. S. Outram.
Springfield, Mo	28.62	726.9	30.01	762.2	70	21.1	81	w.	5	2.2	.....	0	fg.	.....	.....	0.02	0.5	clear	J. B. Marbury.
Starkville, Miss	29.56	750.8	30.03	762.7	79	26.1	88	sw.	10	4.5	.....	7 ck	0	sw.	.....	0	0	fair	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.42	721.9	30.20	767.1	54	12.2	86	nw.	5	2.2	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.13	689.1	30.07	763.8	62.0	16.7	100	s.	4	1.8	.....	0	3 s	.....	s.	0.03	0.8	clear	J. O'Dowd.
Thomas Camp	27.31	693.7	29.93	760.2	71	21.7	90	calm	.....	.....	0	3 cs	0	.....	.....	0.27	6.9	clear	
Thatcher's Island, Mass	29.69	754.1	29.74	755.4	66.0	18.9	93	w.	10	4.5	.....	.....	fg.	.....	.....	0	0	dense fog	G. Liebmann.
Toledo, Ohio	29.04	737.6	29.71	754.6	70.5	21.4	86	s.	5	2.2	.....	.....	10 n	.....	.....	0.70	17.8	light rain	A. Buell.
Tucson, Arizona	27.54	699.5	29.88	758.9	74	23.3	76	s.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	J. L. Whiteside.
Umatilla, Oregon	29.57	751.1	29.93	760.2	69	20.6	47	se.	3	1.3	.....	4 c	0	.....	.....	0	0	fair	J. Daly.
Uvalde, Texas	29.13	739.9	30.07	763.8	69	20.6	93	ne.	3	1.3	.....	.....	10 s	.....	ne.	0.73	18.5	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	71.6	22.0	68	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.84	757.9	30.08	764.0	75	23.9	85	sw.	5	2.2	.....	2 ck	4 s	.....	sw.	0	0	fair	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		W. L. Seward.
Washakie, Fort, Wyoming	24.76	628.9	30.10	764.5	64.0	17.8	68	nw.	1	0.4	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	T. M. Ambler.
Washington, D. C.	29.69	754.1	29.80	756.9	76.8	24.9	86	nw.	1	0.4	.....	3 ck	hz.	nw.	.....	inap.	inap.	clear	F. M. M. Beall.
West Las Animas, Colorado	26.25	666.7	30.00	762.0	60.1	15.6	62	sw.	4	1.8	.....	2 c	0	ne.	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.16	740.7	29.74	755.4	78	25.6	69	w.	1	0.4	.....	.....	10 ks	.....	w.	0	0	threatening	B. F. Hough.
Wilmington, N. Carolina	29.81	757.2	29.86	758.4	80	26.7	79	w.	1	0.4	.....	0	0	.....	.....	0.29	7.4	clear	Samuel A. Haney.
Winnemucca, Nevada	25.70	652.8	29.93	760.2	73	22.8	33	ne.	9	4.0	.....	8 ck	0	sw.	.....	0	0	cloudy	J. Grover.
Yankton, Dakota	28.82	732.0	30.09	764.3	67	19.4	78	calm	0	0	.....	.....	10 ks	.....	.....	0.04	1.0	cloudy	J. H. Atfield.
Yuma, Arizona	29.67	753.6	29.81	757.2	83.7	28.7	66	calm	0	0	.....	4 ck	4 s	se.	s.	0	0	cloudy	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1	.....	.....	54.5	12.5	69	w.	5	2.2	.....	3 k	6 s;n	n.	w.	0.40	10.2	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W.I	30.12	765.0	30.13	765.3	82	27.8	91	e.	.....	.....	.....	0	3 ks	.....	.....	0	0	clear	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.01	762.2	76	24.4	95	calm	0	0	.....	.....	10 ks	.....	s.	0.50	12.7	cloudy	J. I. Plume.
Havana, Cuba†	30.00	762.0	30.06	763.5	79	26.1	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	79.0	26.1	80	calm	0	0	.....	10 cs	0	e.	.....	0.01	0.3		Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	70	21.1	.....	calm	.....	.....	0	0	0	.....	.....	0	0		S. M. Pike.
Navassa	29.89	759.2	29.97	761.2	81	27.2	82	e.	15	6.7	.....	3 ck	6 n	e.	se.	0	0	cloudy	F. M. Everett.
Paramaribo, S. A.	30.09	764.3	30.09	764.3	79	26.1	87	e.	.....	.....	2	4 c	0	.....	.....	0.700	17.8		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.42	747.3	29.98	761.5	79	26.1	85	s.	.....	.....	1	.....	10 ks	.....	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	99	ne.	.....	.....	2	5 ck	4 ks	se.	ne.	0.20	7.4	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alas*†	30.04	763.0	30.09	764.3	54	12.2	93	ne.	.....	.....	2	.....	10 n	.....	.....	0.18	4.6	light rain	W. J. Fisher.
St. Thomas, W. I.	30.02	762.5	30.15	765.8	82	27.8	74	se.	.....	.....	.....	.....	3 k	.....	se.	.....	.....	clear	Aug. Wallon.
York Factory, B. A.	29.80	756.9	29.86	758.4	50.0	10.0	93	n.	17	7.6	.....	3 k	1 s	n.	n.	0	0	fair	Fortesque & Wood.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, N. 17° 51′ W. 31° 21′	30.13	765.3	78	25.6	77	nne.			3-4		3							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.78	756.4	80	26.7	78	wnw.			4		3	wnw.				3	wnw.	d. clouds.
H. M. S. Amethyst, Santos Bay, Brazil	30.12	765.0	65.5	18.6	74	calm			0		0							blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.77	756.1	76	24.4		nne.			3		6	nne.						d. clouds.
H. M. S. Arab, Muscat, Arabia	29.35	745.5	87	30.6	86	se.			2		7							misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.11	764.8	64.5	18.1		calm			0		0							blue sky.
H. M. S. Champion, Wrangel Bay, Corea			70	21.1	90	calm			0		3							d. clouds.
H. M. S. Comus, Esquimalt, Vancouver Island	30.05	763.3	57	13.9	68	calm			0		2							d. clouds.
H. M. S. Diamond, S. 10° 10′, E. 161° 04′	29.93	760.2	78	25.6	84	calm			0		8	ene.				1	se.	d. clouds.
H. M. S. Dido, N. 17′, 05° W. 64° 00′	30.12	765.0	81	27.2		se.			3		3	e.				1	e.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	29.93	760.2	80	26.7	82	ene.			2-3		4	ene.						d. clouds.
H. M. S. Druid, N. 49° 02′, W. 10° 12′	30.14	765.5	63.5	17.5	93	e.			3		8					2	e.	d. clouds.
H. M. S. Emerald, N. 41° 20′ W. 21° 35′	30.05	763.3	69.5	20.8	100	n.			2-3		6	nnw.				2	nne.	d. clouds.
H. M. S. Espiegle, S. 17° 19′ E. 168° 03′	29.96	761.0	76	24.4	86	s.			3		5	se.				1	s.	misty.
H. M. S. Fantome, N. 10° 37′, W. 66° 56′	30.02	762.5	82	27.8		calm			0		3					2	ne.	d. clouds.
H. M. S. Flying Fish, N. 34° 35′, E. 125° 13	30.07	763.8	76	24.4	95	ese.			1-2		4							d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	29.99	761.7	59	15.0	91	se.			1		10							overcast.
H. M. S. Garnet, N. 42° 10′, W. 23° 00′	30.09	764.3	72	22.2	80	nnw.			1		4					2	nnw.	d. clouds.
H. M. S. Iron Duke, N. 46° 42′, E. 140° 20′	29.92	760.0	66	18.9	94	ssw.			3		10					2	sw.	overcast.
H. M. S. Lark, S. 10° 23′, E. 161° 40′	29.96	761.0	75.3	24.1	92	sw.			2		5					2	sw.	raining.
H. M. S. Liffey, Coquimbo, Chili	29.97	761.2	55	12.8		e.			1									d. clouds.
H. M. S. Magpie, N. 35° 07, E. 128° 40′	30.11	764.8	80.4	26.9	84	calm			0		0							misty.
H. M. S. Minotaur, Abukir Bay, Egypt	29.76	755.9	80.5	26.9	68	nw.			3		3							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.79	756.7	66	18.9	94	sw.			3		10							misty.
H. M. S. Orontes, N. 36° 35′ E. 0° 10′	29.89	759.2	77.5	25.3	100	calm			0		6					2	cf'd	d. clouds.
H. M. S. Pegasus, N. 2° 25′, E. 101° 44′	29.84	757.9	86	30.0	72	se.			1		0							blue sky.
H. M. S. Rambler, Ascension Island, Africa	30.15	765.8	76	24.4	90	ese.			2		4	ese.				2	wnw.	d. clouds.
H. M. S. Sappho, Honolulu, Sandwich Island	29.99	761.7	77	25.0	86	calm			0		2							d. clouds.
H. M. S. Swiftsure, S. 53° 32′, W. 72° 24′	29.51	749.5	42	5.6	83	wnw.			3-5		8	wnw.						showery.
H. M. S. Tenedos, N. 56° 51′ W. 56° 08′	29.60	751.8	63	17.2	86	sse.			1		9							d. clouds.
H. M. S. Triumph, S. 46° 04′, W. 61° 11′	29.45	748.0	42	5.6	91	sse.			6		10	se.				8	se.	raining.
H. M. S. Tyne, N. 36° 46′, W. 7° 59′	29.97	761.2	69	20.6	75	w.			3		1					2	w.	blue sky.
H. M. S. Woodlark, Jask, Persia	29.53	750.0	85.5	29.7	71	se.			4-5		4							misty.
H. M. S. Zephyr, N. 49° 00′, E. 140° 19′	29.79	756.7	72	22.2	58	wsw.			2		10					2	s.	foggy.
Portuguese Naval.																		
Rio Lima, Bulama, Senegambia	30.10	764.4	82.4	28.0	85	calm			0		8			12 h'r	12 h'r	1		raining.
Tamega, Macao, China	29.77	756.1	85.1	29.5	74	w.			2		0							blue sky.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.01	762.2	78	25.6	86	nw.	2	0.9			2		s.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.73	755.1	71	21.7	90	calm	0	0			10		sw.	0	0			cloudy.
Naval Hospital, Yokohama, Japan*	30.04	763.0	77.5	25.3	88	calm			0		0			0	0			clear.
Adams, Mare Island, Cal			58	14.4		sw.			3		0			0	0	sm'h		clear.
Alaska, S. 7° 53′ W. 100° 37′	29.98	761.5	78	25.6	95	se.			3		10		se.	0	0	long	s.	cloudy.
Alliance, Boston, Mass	29.73	755.1	68	20.0	100	wsw.			1		8			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan*	30.09	764.3	79	26.1	91	ssw.			1		2		sw.					clear.
Brooklyn, Rio de Janeiro, Brazil	30.20	767.1	68	20.0	90	nw.	3	1.3			0			0.01	0.3	sm'h		clear.
Colorado, New York, N. Y.	29.76	755.9	73	22.8	90	sw.	4	1.8			8		ssw.	0.20	5.1			hazy.
Constellation, N. 38° 32′, W. 71° 44′*	29.86	758.4	76	24.4	96	se.			1		2		se.			sm'h		clear.
Enterprise, Boston, Mass	29.70	754.4	68	20.0	94	sw.			1		5		w.					fair.
Essex, Coquimbo, Chili	30.05	763.3	53	11.7	86	se.			0-1		2					sm'h	se.	clear.
Franklin, Norfolk, Va	29.83	757.7	77	25.0	95	s.	6	2.7			0			0.60	15.2			clear.
Galena, N. 29° 38′, W. 18° 40′	30.10	764.5	74	23.3	95	e.			2		10		ene.			sm'h	ne.	cloudy.
Independence, Navy Yard, Mare Island, Cal	30.03	762.7	56	13.3	?	sw.			2		2		sw.	0	0			clear.
Iroquois, Magdalena Bay, Cal	30.08	764.0	69	20.6	85	sw.			5		2		nw.	0	0			fair.
Kearsarge, Norfolk, Va	29.81	757.2	77	25.0	95	wsw.			1		0							clear.
Lackawanna, Callao, Peru*	29.98	761.5	60	15.6	88	calm			0		10							cloudy.
Lancaster, Villafranca, France*	29.89	759.2	83	28.3	67	ssw.			1		0			0	0			clear.
Marion, S. 34° 54′, W. 56° 13′	29.96	761.0	54	12.2	100	nnw.			2		8		w.	0	0	sm'h		cloudy.
Michigan, Milwaukee, Wisconsin	29.70	754.4	61	16.1	?	w.			1		0							clear.
Minnesota, off New York, N. Y.	29.80	756.9	74	23.3	86	sw.	3	1.3			8							cloudy.
Monocacy, Che Foo, China	30.09	764.3	76	24.4	82	se.			2		10		calm			sm'h		cloudy.
New Hampshire, Newport, R. I.	29.68	753.9	73	22.8	100	ssw.			3		8		ssw.			sm'h		misty.
Nipsic, Villafranca, France*	29.78	756.4	79	26.1	74	s.			1		2					sm'h		fair.
Onward, Callao, Peru†	30.15	765.8	59	15.0	94	calm			0		10		ne.			long	w.	cloudy.
Palos, Kobe, Japan*	30.03	762.7	82	27.8	75	sw.			1		5		sw.					fair.
Passaic, Washington, D. C.	29.85	758.2	74	23.3	?	se.			1		5							fair.
Pensacola, Panama, Panama*	29.83	757.7	79	26.1	82	nw.	3	1.3			10		nw.	0	0	long	s.	cloudy.
Portsmouth, N. 39° 01′, E. 4° 23′*	29.89	759.2	78	25.6	65	calm			0		2					sm'h		clear.
Powhatan, Norfolk, Va	29.81	757.2	78	25.6	91	sw.			2		2							fair.
Quinnebaug, Alexandria, Egypt	29.75	755.6	80	26.7	82	w.			5		2		w.			sm'h		fair.
Ranger, Mare Island, Cal	30.04	763.0	59	15.0	82	sw.			2		0			0	0			clear.
Richmond, Yokohama, Japan*	30.06	763.5	78	25.6	95	ne.			1		0			0	0			clear.
Saratoga, Villafranca, France	29.78	756.4	80	26.7	82	ese.			0-1		2		ese.	0	0	sm'h		clear.
St. Louis, League Island, Pa	29.99	761.7	77	25.0	86	sw.			4		10		sw.	0	0			cloudy.
Swatara, N. 32° 08′, E. 127° 23′*	29.87	758.7	82	27.8	83	ne.			4		0					sm'h	se.	clear.
Tennessee, Boston, Mass	29.77	756.1	71	21.7	95	wsw.	2	0.9			5			0	0			fair.
Vandalia, Portsmouth, N. H*	29.70	754.4	70	21.1	100	calm			0		10		w.					drizzling.
Wabash, Boston, Mass	29.07	753.0	73	22.8	85	sw.	11	4.9			10		sw.	0	0			cloudy.
Wachusetts, Fort Wrangle, Alaska†	30.21	767.3	55	12.8	93	ne.			1		0			0	0	sm'h		clear.
Wyoming, Port Royal, S. C*	29.94	760.5	80	26.7	74	w.	14	6.3			2		calm	0	0			clear.
Yantic, Boston, Mass	29.75	755.6	74	23.3	90	wsw.			1		2							fair.
Merchant Marine.																		
Allan Line.																		
S. S. Grecian, Southampton, England*	30.18	766.6	75	23.9		ne.			1		7		ne.	0	0			fair.
S. S. Polynesian, N. 52° 35′ W. 52° 20′*	29.50	749.3	54	12.2		ssw.			5		4		s.	0	0	mod.	ssw.	fair.
S. S. Scandinavian, N. 50° 35′, W. 33° 15′	29.84	757.9	55	12.8		nw.			3		7		nw.			light	w.	drizzling.
S. S. Waldensian, N. 54° 45′, W. 19° 20′*	29.94	760.5	62	16.7		sse.			2		hz		sse.	sh'rs	shr's	light	ssw.	showery.
American Steamship Company.																		
S. S. British Crown, N. 43° 59′, W. 41° 11′†	30.22	767.6	69	20.6		nnw; sw			1		2		nw.	5 h'r	5 h'r	mod.	sw.	fair.
S. S. Indiana, Philadelphia, Pa †	29.99	761.7	82	27.8	96	sw.			3		2		sw.					fine.
S. S. Lord Clive, Philadelphia, Pa*†	29.79	756.7				sw.			1		3		sw.	1 h'r	1 h'r			fine.
S. S. Ohio, Philadelphia, Pa.†	29.74	755.4	74	23.3	100	w.			2		0		w.					cloudy.
Amsterdam Line.																		
S. S. Jason, N. 42° 28′, W. 56° 21′*	30.17	766.4	66.2	19.0		se.			3	4 c						2	s.	clear.
S. S. Stella, N. 42° 28′ W. 59° 47′	30.02	762.6	77.0	25		sw.			4		2		sw.	0	0	2	w.	d clouds.
Anchor Line.																		
S. S. Alexandria, Messina, Sicily	29.84	757.9	79	26.1		wnw.			4		4		nw.	2 h'r	2 h'r			fair.
S. S. Assyria, N. 48° 08′, W. 30° 42′†	30.09	764.3	58	14.4		nnw.			5		8		nnw.	3 h'r	3 h'r	sm'h		fine.
S. S. Bolivia, N. 53° 09′, W. 27° 51′*†	30.00	762.0	57	13.9		wsw.			3		8		wsw.	5 h'r	5 h'r	long	wsw.	hazy.
S. S. Devonia, N. 54° 54′, W. 13° 12′†	30.21	767.3	59	15.0		ssw.			2		3		sw.			sm'h		clear.
S. S. Dorian, N. 42° 48′, W. 64° 12′*	29.68	753.9	63	17.2		var.			1					0	0	mod.	s.	foggy.
S. S. Ethiopia, N. 42° 25′ W. 57° 08′	30.08	764.0	69.5	20.8	?	s.			2		4		sw.	0	0	sm'h		clear.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ATLAS LINE.																		
S. S. Alisa, Cartagena, U. S. C.†	29.99	761.7	82	27.8	87	var.			2		5		ne.	3 h'r	3 h'r			fair.
S. S. Alene, Gonaives, Hayti, W. I.†	29.98	761.5												0	0			clear.
S. S. Alpin, off Maracaibo, Venezuela	29.98	761.5				ene.			2		6?		se.	3 h'r	2 h'r		ne	clear?
S. S. Antillas, San Juan, Porto Rico, W. I.†	30.05	763.3	86	30.0		calm			0					0	0			cloudy.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 41° 16′ E. 24° 36′	30.25	768.3	55	12.8	87	n.			4		6							blue sky.
S. Baroda, S. 2° 46′, W. 15° 51′	30.17	766.3	73.7	23.2	85	ene.			3		6							d. clouds.
Bk. Caldew, S. 34° 29′, W. 4° 30′	29.91	759.7	56.8	13.8	80	sw.			6		9							d. clouds.
S. S. Cipero, N. 50° 01′, W. 12° 15′	30.14	765.5	61.0	16.1	88	sse.			5		9							d. clouds.
Bk. Commewyne, N. 42° 07′, W. 35° 56′	30.15	765.8	72.6	22.6	85	nne.			3		7							d. clouds.
S. S. City of Agra, S. 39° 48′, W. 7° 15′	29.82	757.4	43	6.1	92	wsw.			5		2							showery.
S. S. Humboldt, S. 34° 00′, W. 53° 00′	30.03	762.7	53.2	11.8	90	nnw.			1		5					sm'h		heavy rain.
May Hulse, N. 35° 49′, W. 37° 04′	30.21	767.3	78.4	25.8	95	n.			4		10					h'vy	sse.	d. clouds.
S. S. Minho, S. 2° 22′, W. 31° 52′	30.11	764.8	78.9	26.1	86	ese.			5		4							blue sky.
S. Oamaru, S. 0° 30′, W. 20° 20′	30.17	766.3	77.0	25.0	82	ese.			3–4		2							overcast.
S. S. Mertola, N. 39° 04′, W. 10° 56′	30.01	762.2	68	20.0	87	wnw.			3		10							misty.
S. S. Pole Star, N. 49° 28′, W. 17° 07′	29.98	761.5	61.9	16.6	100	sse.			4		10							blue sky.
S. S. Rosetta, N. 4° 44′, E. 106° 06′	29.85	758.2	82.5	28.1	75	sw.			2		0							
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 24° 51′, W. 112° 24′*†	29.98	761.5	62	16.7	71	nw.			2		5		nw.			h'vy	w.	fair.
CUNARD LINE.																		
S. S. Gallia, N. 50° 07′ W. 25° 13′	29.99	761.7	94	17.8	94	var.			4		10			rain	rain			gloomy.
S. S. Marathon, N. 43° 40′. W. 9° 03′	29.93	760.2	70	21.1		s.			2		10		s.	0	0	mod.	se.	misty.
S. S. Scythia, N. 47° 02′, W. 35° 40′	30.10	764.5	65.8	18.6	83	nnw.			2		10		nw.	0	0	light	nw.	fine.
DONALDSON LINE.																		
S. S. Colina, N. 41° 27′. W. 56° 11′†	30.20	767.1				ssw.			4		2		ssw.			sm'h		clear.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 48° 35′, W. 25° 05′†	29.79	756.7	59.0	15.0		ese.			3	ck		ese.		0	0		s.	hazy.
S. S. Ville de Marseilles, N. 38° 28′, W. 37° 40′*†	30.15	765.8	76	24.4		n.			3		3		nnw.	0	0	mod.	nnw.	clear
GUION LINE.																		
S. S. Arizona, N. 50° 20′, W. 28° 58′	30.01	762.2	53	11.7		n.			4		8		wsw.	2 h'r	2 h'r	sm'h		light rain.
S. S. Wisconsin, N. 49° 20′, W. 28° 20′	29.98	761.5	59	15.0		n.			6		8		nne.	0	0	light	nw.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Cimbria, N. 49° 59′ W. 4° 28′†	30.18	766.6	71	21.7		e.			2		5		e.	0	0	sm'h	e.	fair.
S. S. Herder, N. 48° 11′, W. 28° 28′†	29.74	755.4	64	17.8		nw.			5		5		nw.	10 h'r	10 h'r	mod.	nw.	fair.
S. S. Silesia, Hamburg, Germany	29.92	760.0	60	20.0		w.			5				w.	0	0			overcast.
S. S. Westphalia, New York, N. Y	29.74	755.4	75.5	24.2	98	wsw.			1		5			0	0			fair.
S. S. Wieland, N. 45° 38′, W. 44° 11′	30.19	766.8	64	17.8		sse.			2		2		ne.	0	0	2		fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Archimedes, N. 40° 21′, W. 64° 18′†	29.98	761.5				ssw.			5		5		sse.	0	0	mod.	s.	fine.
S. S. Hevelius, Buenos Ayres, S. A.*†	30.21	767.3	51	10.6		wsw.			6		2		sw.	1 h'r	1 h'r			clear.
LEYLAND LINE.																		
S. S. Bulgarian, N. 42° 19′, W. 57° 36′*	30.08	764.0				ssw.			1		1		ssw.	0	0			clear.
MAILLORY LINE.																		
S. S. City of San Antonio, Nassau, Bahama Island*†	30.14	765.5				nnw.			1		2		nnw.	0	0	sm'h		fair.
S. S. Colorado, Galveston, Texas†	30.11	764.8	85	29.4		calm			0		0			light	light			clear.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 36° 20′ W. 20° 01′*†	30.17	766.3	74	23.3	90	nw.			1		10		e.	0	0	sm'h	ne.	fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 49° 52′, W. 4° 10′†	30.25	768.3	73	22.8	90	calm			0		0			0	0	sm'h		clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, N. 1° 30′, W. 48° —†	30.00	762.0				ese.			5		6?	var.		0	0	long	ese.	clear.?
MORGAN LINE.																		
S. S. Chalmette, N. 30° 45′ W. 80° 33′†	30.00	762.0	84	28.9		nw.			3		1		w.	0	0	mod.	nw.	clear.
NATIONAL LINE.																		
S. S. Denmark, N. 40° 58′, W. 48° 41′	30.19	766.8	71	21.7		sse.			3		8		s.	0	0	slight	sw.	cloudy.
S. S. Erin, N. 50° 40′ W 18° 59′	29.97	761.2	61	16.1	71	ese.			4		10			2 h'r	2 h'r	sm'h		gloomy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 38° 08′, W. 73° 58′†	29.87	758.7	80	26.7		ssw.			2		2		wsw.	0	0	sm'h		hazy.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 34° 44′, W. 74° 49′†	29.80	759.2	90	32.2	70	sw			2		0			0	0	small	se.	hazy.
S. S. City of Washington, N. 21° 20′, W. 89° 38′*†	30.15	765.8	76	24.4		ne.			3		5		ene.	0	0	sm'h		fine.
NORTH GERMAN LLOYD.																		
S. S. America, N. 40° 44′, W. 51° 32′*	30.22	767.6	77.0	25.0	75				0–2		2		s.	0	0	sm'h		clear.
S. S. Graf Bismark, N. 29° 38′, W. 15° 34′	30.11	764.8	73.4	23.0		ne.			2		8		ne.	0	0	sm'h	ne.	cloudy.
S. S. Koln, N. 48° 39′, W. 26° 19′*	29.92	760.0	61.0	16.1	?	nnw.			6		10			6 h'r	6 h'r	r'gh	nw.	light rain.
S. S. Neckar, N. 41° 30′, W. 57° 28′	30.10	764.5	75.0	23.9	?	ssw.			5		3		ssw.	0	0	sm'h	ssw.	clear.
S. S. Ohio, N. 38° 20′, W. 66° 07′	29.98	761.5				s.			4		2		s.	0	0	mod.	s.	fair.
S. S. Strassburg, N. 49° 41′, W. 14° 09′	30.06	763.5	60.0	15.6	100	e.			3		10		e.	0	0	mod.	e.	covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, N. 36° 10′, E. 144° 44′†	30.32	770.1	80	26.7	78	s.			1		2		sw.	4 h'r	4 h'r	long	w.	clear.
S. S. Gaelic, Yokohama, Japan†	30.26	768.0	82	27.8	83	sw.			4		5		w.					showery.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	29.81	757.2				sw.			1		3		sw.	0	0	sm'h		clear.
S. S. Seminole, N. 32° 30′, W. 79° 50′†	30.02	762.5	72	22.2	91	nw.			2		1		nw.	0	0	sm'h	sw.	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, Portland, Oregon †	30.04	763.0	64	17.8	94	calm			0		2		se.					hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 32° 52′, W. 117° 27′.†	29.96	761.0	65	18.9	89	sse.			1		10		se.			sm'h		cloudy.
S. S. City of Chester, San Francisco, Cal*†	29.94	760.5	54	12.2	93	nw.			2		5?		nw.					cloudy.
S. S. Idaho, N. 47° 35′, W. 122° 15′†	30.06	763.5	62	16.7	88	se.			1		2		s.	0	0	sm'h		fair.
S. S. State of California, N. 40° 30′, W. 124° 30′†	30.05	763.3	54	12.8	93	nnw.			3		10		nw.			sm'h	aw.	foggy.
S. S. Victoria, San Francisco, Cal†	29.98	761.5	52	11.1	87	calm			0					0	0	sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, Sydney, N. S. W	30.02	762.5	54	12.2	80	w.			2		1		w.	0	0			clear.
S. S. City of New York, Sydney, N. S. W†	30.01	762.2	53	11.7	73	w.			1		10		w.	0	0			overcast.
S. S. City of Pekin, N. 47° 43′ W. 157° 07′†	30.11	764.8	56	13.3	100	sw.			3		10		sw.	0	0	sm'h		cloudy.
S. S. City of Rio de Janeiro, Acapulco, Mexico*†	30.14	765.5	82	27.8	83	calm			0		5		w.	0	0	long	sw.	fine.
S. S. City of Sydney, N. 37° 36′. W. 122° 59′†	30.00	764.3	60	15.6	71	nnw.			1		2		n.	0	0	sm'h		clear.
S. S. City of Tokio, Hong Kong, China†	29.84	757.9	82	27.8	87	sw.			2		5		sw.	0	0			fine.
S. S. Colima, N. 24° 57′, W. 112° 00′†	29.80	759.2	67	19.4	89	wsw.			5		8		se.	0	0	mod.	nw.	cloudy.
S. S. Colon, N. 11° 16′, W. 78° 34′†	29.98	761.5	84	28.9		ene.			3		1		ene.	0	0	small		clear.
S. S. Granada, Panama, Panama†	29.91	757.9	75	25.0	95	nw.			1		2		nw.	0	0	sm'h	nw.	clear.
S. S. Zelandia, N. 14° 54′, W. 166° 16′	29.94	760.5	80	26.7	91	e.			1		2		e.			sm'h		fine.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Bermuda, N. 38° 00′ W. 72° 51′†	29.90	759.4	82	27.8		w.			1		6		wsw.	shr's	shr's	sm'h		fine.
S. S. Muriel, Antigua, W. I	30.10	764.5	84	28.9		e.			2		10			0	0	sm'h		overcast.
RED D LINE.																		
S. S. Valencia, N. 13° 26′, W. 68° 31′*†	30.22	767.9	84	28.9	75	ese.			6		5		e.	0	0	h'vy	ese.	fine.
RED STAR LINE.																		
S. S. Belgenland, Philadelphia, Penn †	29.59	751.6	77	25.0	91	calm			0		3							
S. S. Nederland, N. 42° 49′, W. 56° 03′†	30.02	762.5	71	21.7	95	s.			3		5		sw.			sm'h	s.	fair.
S. S. Pennland, N. 49° 28′ W. 14° 48′*	30.10	764.0				se.			3		8		se.	0	0	light	nw.	cloudy.
S. S. Rhynland, Antwerp, Belgium*†	30.38	771.6	65	18.3	71	nw.			5		6		n.	0	0			cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE—Continued.																		
S. S. Vaderland, N. 40° 38′, W. 58° 37′	29.93	760.2	77	25.0	82	ssw.			3		0			0	0	sm'h		clear.
S. S. Waesland, New York, N. Y.	29.74	755.4	76	24.4		sw.			4		5		sw.	sh'rs	sh'rs			fair.
ROTTERDAM LINE.																		
S. S. Edam, N. 44° 47′, W. 48° 11′	30.09	764.3	64.0	17.8	92	sse.			2		9		ne.	0	0			cloudy.
S. S. W. A. Scholten, Brouwershaven, Holland*	30.03	762.7	59.5	15.3	49	ne.			3		5		n.	0	0	sm'h	nw.	
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, N. 32° 37′, W. 73° 49′	29.92	760.0	83	28.3		s.			1		0			0	0	long	e.	clear.
STATE LINE.																		
S. S. State of Florida, New York, N. Y.	29.65	753.1	75	23.9		sw.			2		6		sw.	sh'rs	sh'rs			fair.
S. S. State of Georgia, N. 41° 33′, W. 62° 07′†	30.10	764.5	72	22.2		sse.			3		5		wsw.	0	0	sm'h		hazy.
S. S. State of Indiana, N. 54° 05′, W. 24° 01′†	30.19	766.8	53	11.7		n.			2		3		n.	0	0	sm'h		hazy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 42° 22′, W. 51° 03′†	30.42	772.7	65.3	18.5	84	ssw.			1		10		ssw.	2 h'r	2 h'r	sm'h	ssw.	
WARREN LINE.																		
S. S. Iowa, N. 45° 33′ W. 42° 25′*†	30.30	769.6	68	20.0		nnw.			1		1			0	0	sli't	wnw.	clear.
W. I. & PACIFIC S. S. CO.																		
S. S. Venezuela, N. 52° —′, W. 7° —′*	30.20	767.1	62	16.7	88	ne.			1		0					sm'h		clear.
WHITE STAR LINE.																		
S. S. Adriatic, Mersey River, Eng*†	30.37	771.4	64.5	18.1	92	nw.			2		10		nw.	0	0			misty.
S. S. Britannic, N. 48° 13′, W. 41° 49′†	30.22	767.6	58	14.4	94	calm			0		8		w.	0	0	sm'h		d. clouds.
S. S. Celtic, New York, N. Y.†	29.85	758.2	78	25.6	82	ssw.			2		0			6 h'r	6 h'r			fine.
S. S. Republic, N. 46° 22′, W. 39° 12′†	30.35	770.9	66	18.9	68	ne.			2		9		ne.	0	0	sm'h		d. clouds.
WILSON LINE.																		
S. S. Romano, N. 42° 06′, W. 56° 15′	30.04	763.0	72	22.2		s.			2		2		sw.	0	0	mod		clear.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa.†	29.84	757.9	74	23.3		sw.			1				w.	0	0			
MISCELLANEOUS.																		
Bk. Adelaide, N. 38° 55′, W. 57° 54′*†	30.22	767.6	82	27.8		se.			4		1		ssw.	0	0	light	se.	clear.
Schr. Ajax, off Cape Henlopen, Del†	29.50	750.8				s			1		4		s.	0	0	sm'h	s.	hazy.
Bk. Alpha, N. 59° 30′, W. 5° 30′†	30.15	765.8	58	14.4		s.			6		7		wsw.	0	0	mod.	w.	cloudy.
Bk. Anna Thormann, S. 37° 33′ E. 94° 11′	30.16	766.0	54.0	12.2	92	nne.			5		10 n		n.	6 h'r	6 h'r	mod	n.	rainy.
S. S. Antonio Lopez, N. 19° 32′, W. 69° 22′*	30.07	763.8	81	27.2	87	se.			4		1			0	0	mod.		clear.
Bk. Argonaut, N. 43° 14′ W. 58° 23′*†	30.08	764.0	67.1	19.5		s.			2		10		wsw.	3 h'r	3 h'r	sm'h	sw.	fair.
Bk. Aureola, N. 4° 51′, W. 39° 45′*†	30.24	768.1	80	26.7		s.			2		2		s.	0	0	mod.	s.	clear.
Bk. B. F. Watson, N. 31° 18′ W. 40° 24′†	30.32	770.1	80	26.7		ssw.			2		7		sw.	0	0	sm'h		fair.
Bk. Bergenseren, N. 46° 46′, W. 58° 30′†	29.73	755.2				ssw.			6		fg.			0	0	5	ssw.	foggy.
Bk. Bremen, N. 55° 59′, W. 20° 21′*†	30.01	762.2				ssw.			4		10		ssw	9 h'r	9 h'r	mod	ssw.	foggy.
Bk. Cato, Malmö, Sweden*†	30.37	771.4				nw.			2									fair.
Bk. Celestina, N. 12° 50′, W. 22° 16′*†	29.98	761.5				nw.			2		0			0	0	long	sw.	clear.
Schr. C. R. Flint, New York, N. Y.	29.92	760.0	72	22.2		sw.			2		5		wsw.	0	0			fair.
S. Cornelius, N. 49° 00′, W. 11° 45′*†.	30.36	771.1	56.8	13.8		e.			5		9		e.	0	0	long	se.	cloudy.
S. Dora, N. 4° 00′, W. 17° 40′†	30.19	766.8	78.6	25.9		s.			4		1 k		sse.	0	0	mod.	sse.	clear.
Schr. Edith R. Seward, N. 38° 03′, W. 76° 15′*†	29.85	758.2	81	27.2		w.			1		5		w.	¼ h'r	¼ h'r	sm'h		fair.
S. E. J. Spicer, Long Island Sound*	29.78	756.4	74	23.3		ssw.			3		3		sw.	sq'lls	sq'lls			fair.
S. Enoch Train, N. 50° 34′, W. 13° 19′†	30.32	770.1				ese.			4		7		e.	0	0	short	sse.	hazy.
Bk. Essex, S. 5° 00′ E. 43° 30′*†	30.08	764.0	80	26.7		se.			3		1		se.	0	0	mod.	ese	clear.
Bk. Franklin, N. 56° 05′, W. 14° 20′*†	30.40	772.1				sw.			3		10			0	0	sm'h		covered.
Bk. Freya, Baltimore, Md.						ssw.			3		0			1 h'r	1 h'r			clear.
S. Glendon, N. 40° 00′ W. 56° 50′†	30.13	765.3	82	27.8		sse.			4		9		s.	0	0	sm'h		fair.
Bk. Godefroy, N. 39° 12′ W. 16° 59′	30.08	764.0	67.1	19.5	81	wnw.			3–4		3		wnw.	0	0	mod	ne.	clear.
S. Grecian, N. 17° 16′, E. 113° 44′*†	29.75	755.6	84	28.9		N.			3		2	sw.	n.	0	0	mod.	s.	clear.
Bk. Gronsvaer, N. 32° 00′, W. 39° 00′†	30.30	769.7				sw.			1		2		sw.	0	0	sm'h		fair.
Bk. Hattie G. McFarland, Boston, Mass*†	29.79	756.7	74	23.3		sw.			3		8		w.	1 h'r	1 h'r			cloudy.
Schr. Hattie Weston, N. 15° 45′, W. 65° 45′*†	30.16	766.1	84	28.9		ese.			3		2		se.	0	0	mod.	ese.	fair.
Bk. Heinrich & Tonio, N. 42° 40′, W. 36° 20′*†	30.37	771.4	72	22.2		ne.			3		3		ne.	0	0	light	sw.	fair.
Schr. Henry Denison, N. 40° 23′, W. 73° 44′†						wsw.			4							light	s	fair.
Bk. Horace Scudder, Port of Spain W. I†	30.12	765.0	78	25.6		calm			0		8		calm	0	0			blue sky
S. Ivy, S. 40° 23′, W. 110° 39′†	30.41	772.4	50	10.0		sw.			7		3		sw.	0	0	hv'y	wsw.	squally.
S. Ismir, S. 5° 35′, E. 166° 10′†	29.90	759.4				calm.			0		6		sw.	0	0	sm'h		fine.
Schr. James Slater, N. 31° 00′, W. 73° 02′*†	30.23	767.8	85	29.4		calm			0		0			0	0	light	ene.	
Schr. Jennie N. Huddell, Philadelphia, Pa†	29.82	757.4	76	24.4	95	sw.			2		10		sw.	0	0			cloudy.
Bk. Johanne, N. 42° 35′, W. 61° 40′*†	30.00	762.0	70	21.1		wsw.			5		5		sw.	0	0	mod.	wsw.	fair.
Bg. John Wesley, St. Jago, Cuba W. I†	29.94	760.5				calm			0		1			¾ h'r	¾ h'r			clear.
Bk. Joseph A. Ropes, N. 36° 51′, W. 4° 32′*†	29.87	758.7	52	11.1	87	w.			5		6		w.	4 h'r	4 h'r	mod.	w.	fair.
Bkt. Josephine, Havana, Cuba, W. I.†	30.05	763.3	78	25.6	82	sse.			2		0			0	0			hazy.
Bkt. Kryolith, N. 39° 24′ W. 73° 47′*†	29.85	758.2				sw.			2		2		wsw.			sm'h		clear.
Light House Tender, Laurel, Key West, Fla†	30.09	764.3	86	30.0		n.			2		4		nne.	0	0			fair.
Bk. Liberia, N. 32° 23′, W. 64° 39′*	30.06	763.5	80	26.7	82	sw.			6		5			0	0			
Schr. Maggie Abbott, N. 19° 26′, W. 72° 20′†	30.03	762.7									0			0	0			clear.
S. Minnie N. Gerow, N. 44° 43′, W. 25° 53′*†	29.98	761.5				sw.			5		10		w.			sm'h	sw.	threatening
S. M. P. Grace, S. 43° 50′, W. 86° 47′*	29.77	756.1	47	8.3		wnw.			6				sw.	rain	rain	cross		lightning.
Bk. National Eagle, N. 40° 27′, W. 39° 37′†	30.15	765.8				nnw.			2		2		nnw.	0	0	sm'h		fair.
S. S. Nebo, Porman, Spain*†	29.94	760.5				s.			3		0			0	0	sm'h	s.	clear.
S. Oracle, N. 37° 20′, W. 67° 50′*	29.95	760.7	82	27.8	86	sse.					3 h		sse.			mod.	se.	fine.
S. Orealla, N. 22° 38′, W. 37° 44′*	30.16	766.1				ene.			4		0			0	0	mod.	e.	clear.
S. Paramita, N. 36° 30′ W. 131° 01′†	29.89	759.2	69	20.6		s.			1–4		5?		wsw.	3 h'r	3 h'r	long	wsw.	cloudy?
Bk. Rosebud, S. 37° 38′ E. 37° 14′*	30.35	770.9	60	15.6	100	wsw.			6		5		sw.	shr's	shr's	sharp	sw.	
S. St. Francis, N. 34° 53′, W. 55° 00′†	30.11	764.8	70	21.1		se.			3		7		sse.	0.5	13.	long	se.	rainy.
Bk. Sunbeam, N. 39° 34′ W. 40° 03′†	30.27	768.8	76	24.4	90	wnw.			2		2		nw.	0	0	sm'h		clear.
S. S. Sunbeam, N. 36° 43′, W. 7° 57′	30.00	762.0	69	20.6	79	w.			3		1					sm'h		blue sky
S. Sovereign of the Seas, S. 41° 00′, W. 56° 54′*†	29.48	748.8	45	7.2	100	w.			5		6		wnw.	0	0	r'gh	sw.	fair.
Bk. Truro, N. 40° 24′, W. 69° 40′*†	29.86	758.4				s.			2		10		ssw.	0	0	mod	se.	cloudy.
U.S.F.C.S.S. Fish Hawk, Woods Holl, Mass†	29.11	739.4	72	22.2	90	wsw.			2		10		wsw.	0	0			foggy.
Bk. Vincenzo Accame N. 38° 44′, W. 41° —′†	30.43	773.0	80.6	27.0		n.			2									
Schr. Viola Reppard, N. 34° 12′, W. 76° 46′†	29.90	759.4	87	30.6		nw.			2		2		nw.	0	0	small	e.	
Bg. Wauburn, Azua, San Domingo*†	30.10	764.5				nnw			2		2		nne.			mod.	se.	¼ covered.
Bk. Warden Law, Sunderland, Eng*	30.00	762.0				ene.			2				n.	0	0			fair.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 9, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.98	761.4	81.3	27.4	83	s.			1		3			0	0	pretty fair	Bouvier.
Algiers			29.95	760.6	81.0	27.2	68	n.			2		0			0	0	clear	Thève.
La Galle			29.91	759.8	81.3	27.4	60	wsw.			2		3			inap.	inap.	pretty fair	Fonfrède.
Tunis			29.91	759.8															Jacques.
Saida			30.02	762.6															Perès.
Tebessa			30.00	761.9	84.9	29.4	19	sw.			1		0			0	0	clear	Rigaud.
Geriville					90.7	32.6	11	nnw.			3		1			0	0	very fair	Lonchamp.
Laghouat			30.04	763.1	101.1	38.4	18	e.			2		1			0	0	very fair	Abraham.
Biskra			30.02	762.4	101.8	38.8	21	sse.			2		3			0	0	pretty fair	Malau.
Australian.																			
Melbourne, Victoria	30.04	763.0	30.13	765.3	43.2	6.2	90	w.	9	4.0			3			0.22	5.6	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.36	745.8	29.93	760.1	75.0	23.9	51	se.			1		6			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.13	740.0	29.88	759.0	65.8	18.7	81	wnw.	6.9	3.1			10			0.378	9.6	thunder	Dr. Wierzbiski.
Eperies	28.89	733.8	29.74	755.3	66.9	19.4	74	nw.			4		10 ks		se.	0.157	4.0		Julius Mikolik.
Gratz	28.67	728.3	29.88	758.9	71.2	21.8	75	nw.			6		8			0	0		Andreas Rospini.
Hermannstadt	28.33	719.6	29.72	755.0	60.1	15.6	83	nw.			3		10			0.937	23.8	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.71	729.3	30.04	762.9	61.0	16.1	81	nw.			1		10			0.024	0.6	gloomy	The Staff.
Lemberg	28.78	731.0	29.74	755.3	63.9	17.7	75	ne.			2		5			0.532	13.5		Dr. T. Stanecki.
Pola	29.83	757.6	29.93	760.3	78.4	25.8	55	wsw.			2		4			0	0		I. R. Hydrographic Office.
Szathmar	29.20	743.1	29.71	754.5	67.3	19.6	69	nw.			1		0			0.039	1.0		Joseph Midliuszky, S. J.
Szegedin	29.46	748.3	29.73	755.1	70.9	21.6	72	w.			4		4			0.512	13.0		Karl Stancel.
Trieste																			Royal Academy.
Vienna	29.20	743.1	29.96	760.9	64.8	18.2	70	w.			3		8			0.039	1.0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.14	765.5	30.24	768.1	63.1	17.4	67	ese.	6	2.7			5			0	0		W. Boswell
Armagh, Observatory	30.08	764.0	30.30	769.6	66.4	19.1	75	nnw.	2	0.9			1					misty	S. Call.
Bidston, Liverpool Obs'y			30.24	768.1	59.6	15.3	86	w.	10	4.5			10					overcast	John Hartnup.
Bolton, Sharples	29.64	752.8	30.17	766.3	69.7	20.9	67	nnw.	12	5.4			3					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.79	756.7	30.19	766.8	71.0	21.7	55	nw.			2		8			0	0	d. clouds	J. McLandsborough.
Bridgetown, Barbadoes	30.05	763.3	30.08	764.0	84.0	28.9	67	ne.			3		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			30.19	766.8	70.6	21.4	61	n.			0.4		1					blue sky	John McLaren.
Chatham, School M. E.	30.11	764.8	30.24	768.1	63.2	17.3	69	ne.			1		8					gloomy	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	30.00	762.0	30.23	767.8	68.6	20.3	64	sse.			1		2					misty	The Staff.
Fort Napier, Natal	27.90	708.6	30.12	765.0	75.0	23.9	34	calm			0		0					blue sky	Corpl. F. Milner, A. H. C.
Free Town, Sierra Leone	29.71	754.6	29.91	759.7	83.0	28.3	70	w.			1		3					drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	29.98	761.5	30.03	762.7	78.0	25.6	84	w.			3		0						Corpl. F. Norris, A. H. C
Glasgow, Observatory	30.04	763.0	30.25	768.3	65.3	18.5	62	ne.			1		2					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.06	763.5	30.23	767.8	61.5	16.4	73	nne.			1		10					overcast	The Staff.
Guernsey	29.91	759.7	30.21	767.3	65	18.3	73	nne.			2		0					blue sky	A. Collenette, F. M. S.
Kew, Observatory	30.20	767.1	30.24	768.1	61.5	16.4	93	ne.	7	3.1			5					hazy	The Staff.
Leicester, Museum	29.96	761.0	30.20	767.1	69.0	20.6	67	sw.			1		0					blue sky	J. C. Smith.
Malta, Mediterranean	29.86	758.4	29.93	760.2	82.4	28.0	49	nw.			2		3					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.05	763.3	30.10	764.5	86.0	30.0	72	w.			2		0					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.70	754.4	30.21	767.3	71.0	21.7	73	w.			2		2					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	30.00	762.0	30.22	767.6	67.2	19.6	62	ne.			1		0					blue sky	The Staff.
Plymouth	30.14	765.5	30.22	767.6	67.9	19.9	72	s.			2		5					misty	John Merrifield.
Sandwick Manse, Orkneys			30.22	767.6	57	13.9	87						10					hailing	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.64	752.8	29.71	754.6	81.0	27.2	46	ne.			1		5			blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.92	760.0	30.19	766.8	71.0	21.7	69	ne.			1		4			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	30.30	769.6	30.33	770.4	71.0	21.7	63	n.			1		2			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.24	768.1	63.5	17.5	80	w.	9	4.0			5					misty	I. New.
Strathfield Turgiss					71.1	21.7	57	ne.			1		0					blue sky	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.22	767.6	30.23	767.8	76	24.4	60	n.			4		3					d. clouds	W. Newcombe.
Valencia, Observatory	30.23	767.8	30.20	768.6	68.6	20.3	77	sw.	5	2.2			2					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.74	755.4	29.78	756.4	71	21.7	91	s.	20	8.9			10 n		sw.	0.385	9.8	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.60	751.8	29.65	753.1	69	20.6	100	se.	7	3.1			10 n		se.	0.36	9.1	heavy rain	G. A. Blair.
Father Point, Quebec*	29.58	751.3	29.00	751.8	52	11.1	100	ne.	17	7.6			1g.			1.33	33.8	light rain	J. McWilliams.
Fort Garry, Manitoba*	29.31	744.5	30.14	765.5	45	7.2	93	w.	3	1.3		0	0			0	0	clear	James Stewart.
Halifax, N. S*	29.72	754.9	29.85	758.2	67	19.4	100	s.	12	5.4			10 n		sw.	0.675	17.2	cloudy	A. Allison.
Kingston, Ontario*	29.30	744.2	29.62	752.3	65	18.3	93	w.	2	0.9		2 c	2 k		nw.	1.01	25.6	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.36	745.7	29.56	750.8	61	16.1	93	nw.	9	4.0			10 s		nw.	0.91	23.1	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	28.99	736.3	29.66	753.4	60	15.6	84	ne.	15	6.7		5 k	5 n	ne.	ne.	0	0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.09	738.9	29.71	754.6	59	15.0	94	w.	9	4.0		2 k	0	w.		0.40	11.7	fair	H. Morgan.
Port Stanley, Ontario	29.11	739.4	29.74	755.4	55	12.8	93	w.	4	1.8		0	2 ck		w.	0.11	2.8	fair	M. Payne.
Quebec, Quebec*	29.23	742.4	29.54	750.3	50	10.0		ne.			7		8 n		e.	0.64	16.3	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.21	741.9	29.65	753.1	59	15.0	90	calm	0	0			8 ks		se.	0.84	21.3	light rain	W. H. McIntyre.
Saugeen, Ontario*	28.97	735.8	29.66	753.4	63	17.2	93	sw.	4	1.8		2 k	0			0	0	clear	
St. Andrews, N. B	29.60	751.8	29.65	753.1	61	16.1	97	s.	4	1.8			1g.			0.50	12.7	foggy	
Sydney, C. B*	29.88	758.9	29.94	760.5	70	21.1	90	sw.	17	7.6			10 n			0.43	10.9	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.32	744.7	29.69	754.1	61	16.1	87	w.	7	3.1		5 ck	0	w.		0.42	10.7	fair	Magnetic Observatory.
Yarmouth, N. S*	29.68	753.9	29.75	755.6	66	18.9	97	sw.	24	10.7			1g			0.40	10.2	foggy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.30	718.8	29.74	755.4	56.0	13.3	94	w.			2	10 kn	0			0.037	0.9	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.99?	761.7?	30.23?	767.8?	74?	23 3?	90	sw.	1	0.4		5 k	5 s			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.02	762.5	30.04	763.0	73	22.8	70	w.	11.0	4.9		0	2 s			0	0	smoky	C. Hansen.
Cape Town, C. G. H. Obs'y	30.10	764.5	30.13	765.3	59.2	15.1	93	nw.	5	2.2		10	10			0.420	10.7		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.91	759.7	29.94	760.4	77.9	25.5	92	ene.	15.2	6.8		0	9 k		e.	0	0	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.96	761.0	30.01	762.2	71.6	22.0	64	s.	9	4			7						Oversergent Fischer.
Fanöe	30.04	762.9	30.06	763.4	65.1	18.4	81	nw.			4		9						Overloerer Lauridsen
Godthaab, Greenland	29.45	748.0	29.49	749.1	45.1	7.3	93	wsw.			2		10			0.079	2.0	raining	S. Kleinschmidt.
Ivigtut	29.59	751.6	29.61	752.1	46.9	8.3		calm			0		10					raining	
Stykkisholm, Iceland	29.83	757.6	29.87	758.7	45.3	7.4	82	e.			4		10						A. O. Thorlacius.
Thorshavn	30.04	762.9	30.07	753.8	56.5	13.6	82	nw.	9	4			3						Overloerer Bergh.
Vestervig	29.95	760.8	30.04	763.1	64.0	17.8	96	nnw.			2		7						Loearer Oesterboi.
FRENCH.																			
Agen, Normal School	29.39	746.4	30.01	762.2	77.7	25.4	44	nnw.			1	0	0			0	0	clear	M. Labroue, Directo .
Alençon, Normal School	29.65	753.2	30.21	767.2	61.2	16.2	79	ne.			4		8	n.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.95	760.7	30.21	767.2	59.2	15.1	80	ne.			1		10			0	0	covered	M. Fénéon, Command't.
Avignon, Normal School	29.86	758.4	29.94	760.4	82.8	28.2	46	n.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.56	750.8	30.10	764.6	66.7	19.3	47	ne.			1		6			0	0	cloudy	M. Saillard, Director.
Beauvais, Normal School	29.93	760.3	30.20	767.0	62.4	16.9	50	ne.			1		10		ne.	0	0	covered	M. Frère Eugène Mar .
Besançon, Normal School	29.02?	738.5?	29.86?	758.5?	71.6	22	91	ne.			4		2		ne.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.77	756.1	30.02	762.5	77.7	25.4	41	wnw.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.53	750.1	30.08	763.9	72.5	22.5	41	n.							n.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.98	761.4	30.22	767.6	67.3	19.6	61	ne.			2		2		ne.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.06	763.4	30.13	765.3	56.8	13.8	62	ne.			1		8		nne.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch't	29.77	756.2	30.08	764.0	68.7	20.4	62	ene.			1		2		ne.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.63	752.6	30.13	765.4	63.0	17.2	59	nne.			1		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.71	729.2	30.02	762.5	71.2	21.8	50	n.			2	0	2 k			0	0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.21	741.8	30.02	762.6	69.8	21	63	ne.			1		2		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School.	28.12	714.2	30.10	764.6	65.8	18.8	77	nne.			1		8	nne.	nne.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.38?	695.5?	29.77?	756.1?	81.3	27.4	19	n.			4	0	2 k		s.	0	0		M. Jeanglrard, Director.
Gréasque, du Rhone	28.82	732.1	29.89	759.1	82.8	28.2	27	n.			2		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.15	740.3	29.89	759.2	74.1	23.4	95	nne.			2	2 c	0	ne.		0	0	slightly cld'y	M. Ablard, Director.
Lamballe, Normal School.					64.4	18	60	ne.			2		5		ne.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.42	747.3	29.96	761.0	79.2	26.2	33	sw.			3		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.09	764.2	30.19	766.8	72.1	22.3	51	ne.			1		2	ne.	n.	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.00	736.6	30.02	762.6	69.8	21.0	54	nnw.			1	0	1 n		n.	0	0	clear	M. André, Director.
Mans, Normal School	29.87	758.6	30.17	766.3	64.4	18	75	ene.			4		10		ene.	0	0	covered	M. Piboen, Director.
Marseille, Observatory	29.67	753.5	29.93	760.2	78.4	25.8	45	wsw.			1		0			0	0		M. Stephan, Director.
Montlouis	24.90	632.4	29.74	755.4	67.1	19.5	58	e.	15.0	6.7					se.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.80	756.8	29.92	759.9	83.5	28.6	80	ssw.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.30	744.3	30.07	763.7	66.2	19.0	64	nw.			1	2 c	0			0	0	slightly cl'dy	M. Hasse, Director
Nantes. Observatory	30.01	762.2	30.13	765.3	69.4	20.8	48	e.			1–3		8 k; kn		ne.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.84	758.0	29.95	760.6	82.9	28.3	33	se.	11.2	5.0			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.41	543.7			52.2	11.2		s.			1		5		s.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.95	735.3	29.97	761.1	77.0	25	40	n.			3		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.24	641.2			50.7	10.4	86	e.			2		2			0.012	0.3	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.04	763.0	30.07	763.8	76.6	24.8	100	ne.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.88	758.9	30.09	764.2	71.6	22.0	41	n.			4		0			0	0	clear	M. Mouillot, Director.
Rodez, Normal School	27.92	709.2	29.98	761.5	75.0	23.9	41	w.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.07	763.8	30.12	765.0	64.0	17.8	61	ne.			2		5	e.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	30.00	761.9	30.16	766.1	61.5	16.4	61	nne.			1		10		ne.	0	0		M. Renou, Director.
Toulouse, Observatory	29.34	745.2	30.06	763.6	82.2	27.9	28	nnw.			3		0			0	0	clear	M. Bailland, Director.
Tours	29.95	760.6	30.12	765.1	69.8	21.0	44	nne.			3		5	ne.	ne.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.68	753.8	30.17	766.3	60.8	16.0	67	n.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.88	759.0	30.17	766.4	61.7	16.5	60	nne.			2		10		nne.	0	0		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.64	727.4	30.05	763.2	66.4	19.1	57	ne.			2		6		ne.	0	0		Prof. Jnedt.
Bamberg	29.22	742.2	30.08	763.9	67.6	19.8	50	n.			1	0	4 ks			0	0		Prof. Dr. Hoh.
Berlin	29.82	757.4	29.99	761.8	73.0	22.8	67	w.			2		8			0	0		Prof. Dr. Arndt.
Breslau	29.44	747.7	29.97	761.2	67.8	19.9	79	nw.			3		10			0.047	1.2		Royal University Obs'y.
Carlsruhe	29.65	753.1	30.08	764.1	65.1	18.4	62	ne.			1		9	s.		0	0		Albert Senz.
Cassel	29.36	745.7	30.07	763.8	63.1	17.3	76	nw.			2		8	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.74	755.4	30.10	764.5	68.9	20.5	59	nnw.			1		7			0	0		Physical Society.
Friedrichshafen	28.62	726.9	30.02	762.4	66.6	19.2	62	n.			4		6	ene.		0	0		Wilhelm, Chief Tel.
Hamburg	29.97	761.3	30.07	763.7	63.7	17.6	95	calm			0		10			0.004	0.1	foggy	E. Preller.
Kiel	30.00	762.1	30.02	762.5	70.0	21.1	74	w.			2		5			0.028	0.7		Prof. Dr. G. Karsten
Leipsic, Astron'l Obs'y	29.66	753.4	30.08	763.9	65.1	18.4	77	nw.			3		9	nw.		0.035	0.9	hazy	H. Leppig, Asst.
Magdeburg	29.88	759.0	30.07	763.7	65.8	18.8	84	nw.			2		10 ks		nw.	0	0		Dr. Assmann.
Memel	29.82	757.3	29.86	758.5	66.4	19.1	84	nnw.			4	0	4 k; n						Issermann.
Munich	28.26	717.7	30.12	765.1	66.4	19.1	50	ne.			1		4	sw.		0	0		Dr. C. Lang.
Neufahrwasser	29.91	759.7	29.93	760.1	66.4	19.1	82	nnw.			3		8			0	0		A. Lothes.
Neustadt, Palatinate	29.52	749.9	30.05	763.3	68.2	20.1	58	ne.			2		3	nne.		0	0		Dicknether.
Stuttgart	29.13	739.9	30.01	762.2	64.4	18.0	66	n.			2		5	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.02	762.6	30.05	763.3	67.6	19.8	88	n.			2	0	3 s			0.075	1.9		Profs. Brandes & Reimer
GREEK.																			
Athens	29.42	747.2	29.79	756.6	79.9	26.6		ne.			1.0		6			1.256	31.9		Schmidt & Wourlisch
INDIAN.																			
Kurrachee	29.61	752.3	29.66	753.3	85.0	29.4	71	wsw.	21.0	9.4			3		w.	0	0	d. clouds	
Deesa	29.15	740.4	29.62	752.3	86.8	30.4	58	wsw.	8.0	3.6			1		sw.	0	0	d. clouds	
Bombay	29.68	753.8	29.71	754.7	82.7	28.2	81	wnw	11.0	4.9			10	wnw	nw.	0.001	0.3	overcast	
Poona, Yarrowda	27.85	707.3	29.68	754.0	80.9	27.2	60	wnw	12.0	5.4			8	w.	w.	0.06	1.5	d. clouds	
Trichinopoly	29.45	748.1	29.73	755.1	87.4	30.8	60	ese.	2.0	0.9			10			0	0	overcast	
Bellary	28.18	716.0	29.62	752.3	86.0	30.0	51	nne.	11.2	5.0			10			0	0	gloomy	
Belgaum	27.19	690.7	29.73	755.2	73.6	23.1	87	w	8.0	3.6			5	se.	w.	0.12	3.0	showery	
Lahore	28.76	730.5	29.47	748.6	96.0	35.6	47	calm	2.0	0.9			0			0	0	blue sky	
Roorkee	28.59	726.2	29.46	748.2	92.6	33.7	60	nw.	2.0	0.9			4			0.21	5.3		
Agra	28.97	735.9	29.52	749.8	93.1	33.9	57	w.	8.0	3.6			2			0	0	d. clouds	
Nagpur	28.55	725.2	29.57	751.1	86.9	30.5	54	calm	2.0	0.9			9		sw.	0	0	d. clouds	
Jubbulpore	28.26	717.7	29.59	751.6	84.8	29.3	68	nw.	3.2	1.4			4		w.	0	0	d. clouds	
Lucknow	29.16	740.6	29.52	749.9	92.1	33.4	69	calm	2.5	1.1			0			0	0	blue sky	
Allahabad	29.20	741.7	29.51	749.4	90.7	32.6	63	e.	2.0	0.9			10			0	0	overcast	
Patna	29.36	745.8	29.54	750.4	85.6	29.8	78	nnw.	2.9	1.3			6	nnw	nnw.	0.02	0.5	d. clouds	
Hazaribagh	27.57	700.3	29.56	750.9	77.8	25.4	90	calm	3.8	1.7			10			1.03	26.2	thund'r st'm	
Cuttack	29.51	749.5	29.59	751.6	81.0	27.2	88	w.	4.0	1.8			9			0.40	11.7	drizzling	
Calcutta, Alipore	29.54	750.3	29.56	750.9	82.6	28.1	87	nnw.	4.0	1.8			10	nnw.	nnw.	0.33	8.4	overcast	
Dhubri	29.46	748.2	29.57	751.2	79.9	26.6	93	calm	0	0			8	ssw.		0.45	11.4	gloomy	
Chittagong	29.55	750.4	29.64	752.7	80.7	27.1	84	ese.	7.2	3.2			6			0	0	d. clouds	
Sibsagar	29.20	741.7	29.53	750.0	87.0	30.6	81	sw.	4.0	1.8			10	e.	e.	0.36	9.1	d. clouds	
Jeypore	28.16	715.2	29.56	750.9	90.7	32.6	47	wsw.	5.9	2.6			1			0	0	blue sky	
Zanzibar, Africa	30.08	764.0			79.6	26.4	59	s.	7.4	3.3			7		sse.	0	0	d. cloudy	
ITALIAN.																			
Udine	29.56	750.7	29.95	760.7	79.5	26.4	26	sw.	0.7	0.3			2			0.150	3.8		Prof. Giovanni Clodig.
Milan	29.44	747.8	29.93	760.3	80.8	27.1	38	ne.	4.9	2.2			3			0	0		Prof. Schiaparelli.
Padua	29.84	757.8	29.94	760.5	78.6	25.9	39	ssw.	1.3	0.6			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.05	737.8	29.91	759.8	79.7	26.5	44	ne.	2.5	1.1			4	ne.		0.051	1.3		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Genoa	29.76	755.8	29.94	760.5	78.4	25.8	67	sw.	4.9	2.2			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.06	712.8	29.89	759.2	75.2	24.0	44	n.			4		1	wsw.		0	0		Prof. D. C. Bruno
Pesaro	29.91	759.8	29.96	761.0	76.1	24.5	53	ene.	9.8	4.4			1			0	0		Prof. Luigi Guidi.
Florence	29.68	753.8	29.92	760.0	81.3	27.4	23	nw.			2		3			0	0		Prof. Costantino Pitter
Leghorn	29.82	757.3	29.90	759.4	82.4	28.0	65	ne.	3.1	1.4			5			0	0		Prof. P. Monte.
Rome	29.75	755.6	29.91	759.8	83.5	28.6	21	n.	3.1	1.4			1			0.063	1.6		Prof. P. Tachini.
Lecce	29.66	753.4	29.90	759.5	76.8	24.9	42	ne.	13.7	6.1			2	n.		0.098	2.5		Prof. C. de Giorgi
Cosenza	29.03	737.4	29.88	759.0	79.9	26.6	72	sw.	2.5	1.1			5	w.		0.012	0.3		Prof. D. Conti.
Cagliari	29.72	755.0	29.91	759.7	81.1	27.3	55	se.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.69	754.0	29.93	760.1	87.4	30.8	25	wsw.	15.4	6.9			3			0	0		Prof. G. Giaccintore.
Syracuse	29.84	757.8	29.88	758.9	82.8	28.2	57	nne.	11.9	5.3			3	w.		0	0		Prof. Vincenzo Gulliano
Sub-series.																			
Naples, S. R	29.40	746.7	29.90	759.4	81.5	27.5	58	sse.	0	0			6	nw.		0	0		Prof. T. Brioschi.
Stelvio	22.26	565.6			52.3	11.3	38	n.			2		1			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.25	565.2			51.3	10.7	70	e.			1		4			0.120	3.2	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	30.01	762.2	30.04	763.0	72.7	22.6	88	s.	0.6	0.3		0	2 s			0.027	0.7	fair	K. Ogawa.
Hakodate	30.02	762.5	30.03	762.7	68.8	20.4	94	e.	3.0	1.3			3			0	0	clear	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.82	757.4	29.99	761.7	76.4	24.7	79	nnw.	0.7	0.3		0	0			inap.	inap.	clear	M. Fojima.
Nagasaki, I. M. Obs'y	29.79	756.7	29.98	761.6	80.4	26.9	67	nne.	6.0	2.7		0	1 s			0	0	clear	
Nemuro	30.07	763.8	30.13	765.3	63.0	17.2	87	calm	0	0		8	0			0	0	cloudy	
Niigata	29.99	761.7	30.02	762.5	77.6	25.3	82	n.	3.9	1.8			10 ck		nw.	0	0	overcast	M. Morita.
Nohiru	29.99	761.8	30.01	762.2	73.9	23.3	98	ene.	4.2	1.9			10 ns			1.835	46.6	covered	H. Midzushima.
Osaka	30.06	763.5	30.07	763.8	78.9	26.1	71	ene.	2.0	0.9		0	3 s			0	0	clear	
Sapporo					63.8	17.7	81	nw.	8.4	3.8			0			0.490	12.4	clear	
Tokei Obs'y, Yeddo	29.93	760.1	30.00	762.0	76.6	24.8	94	ene.	3.0	1.3			10 n			0.050	1.3	light rain	The Staff.
Wakayama	29.95	760.7	30.00	762.0	79.6	26.4	79	sw.	1.9	0.8			10			0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.86	758.4	30.05	763.3	72.5	22.5	64	ene.	10.0	4.5		9ck;cs	1 ks;n	nw.		0.03	0.8	overcast	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74?	603.7?	29.99	761.7	56.1	13.4	86	ene.	2.2	1.0		0	0			0.028	0.7	clear	Prof. Vicente Fernandez.
Leon, †	24.40	619.7	30.10	764.5	57.7	14.3	92	wnw.			1	5 c	0	sw.		0.087	2.2	½ cloudy	Prof. M. Leal.
Mazatlan	29.72	754.9	29.98	761.4	77.0	25.0	82	ne.	1.6	0.8		1 cs	1 k			0.059	1.5	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.4	30.19	767.0	54.1	12.3	87	calm			0	0	7 k			0.012	0.3	cloudy	The Staff.
Morelia	24.22	615.2	30.27	768.9	60.8	16.0	52	se.			3	2	1	e.	e.	inap.	inap.	clear	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Rabellon, Aguascallentes	24.06	609.7	29.99	761.7	59.0?	15.5?	89	nnw.			1	4 c	1 n	ene.	ene.	0.110	2.7	½ cloudy	M. V. de Leon, M. E
Puebla, Catholic Institute	23.45	595.3	30.29	769.3	64.4?	8.0?	87	ne.	6.9	3.1		0	9			0	0	very cloudy	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	22.59	573.6	30.14	765.4	52.0	11.0	94	ne.	6.4	2.8		6 k	4 k	n.	n.	0	0	covered	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.20	767.1	30.20	767.1	61.5	16.4		n.			3					0.083	2.1		
Groningen	30.05	763.3	30.11	764.7	62.1	16.7		n.			1					0	0		
Helder	30.17	766.2	30.17	766.2	58.6	14.8		n.			2					0.008	0.2		
Hellevoetsluis	30.19	766.7	30.19	766.7	62.1	16.7	77	n.			1					0.008	0.2		
Utrecht	30.13	765.3	30.18	766.5	62.4	16.9	81	nw.			2		8			0.004	0.1	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.05	763.3	30.11	764.9	56.1	13.4	85	nnw.	9	4			10			0	0		
Brono	29.94	760.4	29.98	761.4	56.8	13.8	87	sw.	18	8			10			0	0		
Christiania	29.84	758.0	29.98	761.6	73.4	23.0	58	sw.	4	2			0			0	0		
Gjæsvær	29.71	754.6	29.73	755.2	56.7	13.7		ssw.			4		10					raining	
Lodingen	29.79	756.6	29.84	757.8	54.3	12.4	97	sw.			8		10			0.957	24.3	rain & fog	
PORTUGUESE.																			
Angra, Azores					71.4	21.9	86	wsw.	13.0	5.8			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.03	737.3	29.98	761.6	81.5	27.5	40	ssw.	2.5	1.1			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.05	763.3	30.14	765.5	71.1	21.7	59	se.	10.5	4.7			8			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.72	754.9	30.07	763.8	71.1	21.7	60	n.	3.8	1.7			9			0	0		The Staff.
Ponta Delgada, Azores	30.06	763.6	30.13	765.4	75.6	24.2	67	ne.	13.6	6.1			4			0	0		
Saint Paul de Loando	29.89	759.1	30.10	764.3	69.6	20.9	82	wnw.			2		0			0	0		
Serra da Estrella	25.39	644.9	29.91	759.6	71.2	21.8	49	se.	8.1	3.6			2			0	0		
RUSSIAN.																			
Akmolinski	28.57	725.7	29.57	751.0	84.6	29.2	39	calm	0	0		0	5 k			0	0		Major K. Lasarew.
Archangel	29.72	754.9	29.74	755.4	59.2	15.1	73	nw.	4	2			10			0	0		Capt. Sseliwerstow.
Astrakhan	29.79	756.6	29.71	754.5	83.5	28.6	33	nne.	4	2		0	1 s			0	0		Capt. Wisganow.
Barnaul	29.25	743.0	29.71	754.7	84.0	28.9	38	s.	4	2			7			0	0		Meteorological Obs'y.
Dorpat	29.51	749.6	29.74	755.4	79.9	26.6	57	n.	7	3		0	5 k			0	0		Observatory.
Ekaterinburg	28.52	724.3	29.43	747.6	68.4	20.2	49	ssw.	13	6		0	6 ks;n			blank	blank		Meteorological Obs'y.
Irkutsk																			
Kasan	29.21	741.8	29.46	748.2	75.6	24.2	40	wsw.	2	1			10			0	0		Observatory.
Kertch	29.05	753.1	29.67	753.6	76.8	24.9	65	sse.	4	2		0	7 n			0	0		Lagorio & Sastyrez.
Kieff	29.00	738.2	29.67	753.7	67.5	19.7	54	w.	7	3		ck;cs	2 ks						Observatory.
Lugan	29.45	747.9	29.64	752.8	79.9	26.6	38	wnw.	9	4			0			0	0		Meteorological Obs'y.
Moscow	29.14	740.1	29.58	751.3	78.3	25.7	48	nw.	7.8	3.5		0	6 ks						Meteorological Obs'y.
Nikolaiev	29.61	752.1	29.68	753.9	81.3	27.4	34	calm	0	0		cs	2 k			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China																			
St. Petersburg	29.91	759.7	30.05	763.3	80.4	26.9	61	calm	0	0		0	5 ks			0	0		Physical Observatory.
Semipalatinsk	29.73	755.1	29.74	755.5	73.2	22.9	58	nne.	9	4		c	0 k;ks			0.024	0.6		Central Physical Obs'y.
Tashkend, Laboratory	29.07	738.3	29.66	753.4	93.6	34.2	27	calm	0	0			7			0	0		Major Lasarew
Tiflis	28.00	712.0	29.49	749.1	92.5	33.6	54	calm	0	0			0			0	0		Telch, A. M.
Vladivostock	28.24	717.2	29.55	750.6	88.2	31.2	45	s.	4	2		0	7 ks			0	0		Physical Observatory.
Warsaw	30.05	763.3	30.12	765.0	69.1	20.6	83	calm	0	0		0	0						
Wilna	29.36	745.8	29.76	756.0	77.4	25.2	60	nnw.	9	4		0	8 k						Astronomical Obs'y.
Yeniseisk	29.31	744.4	29.70	754.4	79.3	26.3	56	nne.	4	2			3			0	0		Berg, Assistant.
SCOTTISH.	29.53	750.0	29.80	756.9	73.8	23.2	79	sw.	2	1			2			0	0		M. O. Marks.
Monach Lt.			30.25	768.3	60	15.6	94	sw.			4		10			0	0	hazy	J. Youngclause.
North Unst			30.09	764.3				w.			4		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.84	757.9	29.94	760.5	77.0	25.0	66	se.	4.0	1.8		0	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.01	762.3	30.07	763.8	82.4	28.0	48	nw.	3.1	1.4		2	0	e.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.11	688.7	29.93	760.1	80.1	26.7	28	ne.	5.4	2.4		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.80	706.0	29.88	758.9	88.9	31.6	36	s.	4.7	2.1		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.79	756.6	29.94	760.4	86.0	30.0	59	ne.	3.1	1.4		0	2			0	0	almost clear	Olayo Diaz, Director
Oviedo	29.22	742.2	30.09	764.2	68.0	20.0	79	nw.	3.6	1.6		1 c	0			0	0	fair	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.13	739.9	30.02	762.4	63.9	17.7	90	calm	0	0			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.03	762.8	30.10	764.4	78.7	25.9	81	nnw.	6.3	2.8		6 ck	2 k;s	w.	nw.	0.06	1.5	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.72	755.0	29.78	756.5	78.0	25.6	90	wsw.	19.8	8.9			10 n		sw.	0.433	11.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.98	761.4	30.07	763.8	75.2	24.0	56	w.	5.8	2.6		0	5		w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.05	763.2	30.14	765.5	84.9	29.4	77	se.	4.5	2.0		2 s	5 k	e.	se.	0	0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.53	750.0	29.66	753.4	78.8	26.0	80	nnw.	2.5	1.1		4 cs	5 cs		wsw.	0.01	0.3		José L. Yrastorza.
SWEDISH																			
Haparanda	29.82	757.5	29.86	758.5	69.8	21.0	55	n.			2		2			0	0		
Umeå	29.87	758.6	29.92	759.9	74.5	23.0	47	nw.			2		0			0.142	3.6		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Hernosand	29.87	758.7	29.92	760.0	68.7	20.4	53	sw.			2		0			0	0		
Stockholm	29.78	756.5	29.96	761.0	71.6	22.0	61	n.			2		0			0	0		
Wisby	29.84	757.8	29.89	759.3	65.8	18.8	77	nnw.			4		3			0	0		
Sub-series.																			
Upsala	29.86	758.5	29.95	760.7	68.7	20.4	66	nnw.	9.6	4.3			4	ese.	nne.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.65	727.7	30.05	763.2	64.8	18.2	67	nnw.			3		10			0	0	covered	The Observatory
Turkish.																			
Constantinople			29.76	755.8	75.2	24.0	48	n.	10	4.5			6		sw.	0	0		The Observatory.
Valona			30.05	763.2	78.4	25.8		n.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.73	755.2	88.0	31.1	49	wsw.			3	0	3 k		sw.	0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.56	750.8	29.64	752.8	75.5	24.2	75	s.	4	1.8		3 ck	4 ks	nw.	nw.	0.09	2.3	fair	J. O. Barnes.
Alpena, Michigan	29.10	739.1	29.74	755.4	57	13.9	100	w.	10	4.5			10 n			0.38	9.7	heavy rain.	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.14	638.5	29.86	758.4	59	15.0	90	e.	4	1.8		0	0			0.68	2.0	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	27.39	695.7	30.14	765.5	63	17.2	58	ne.	5	2.2		3 c	1 s	sw.	sw.	0	0	fair	B. O. Lenoir.
Atlanta, Georgia	28.78	731.0	29.93	760.2	72.0	22.2	82	nw.	8	3.6		0	0			0.03	0.8	clear	H. Hall.
Atlantic City, New Jersey	29.69	754.1	29.70	754.4	72.8	22.7	82	nw.	6	2.7		0	0			1.34	34.0	clear	Jas. M. Watson.
Augusta, Georgia	29.73	755.1	29.92	760.0	78	25.6	79	w.	2	0.9		0	0			0	0	clear	John Healy.
Baltimore, Maryland	29.72	754.9	29.77	756.1	72	22.2	71	nw.	8	3.6		2ck;cs	0	sw.		0.41	10.4	clear	Robert Seyboth.
Barnegat, New Jersey	29.68	753.9	29.70	754.4	76.0	24.4	82	sw.	7	3.1		0	0			0.06	1.5	clear	G. A. Hill.
Bennett, Fort, Dakota	28.64	727.4	30.18	766.6	56	13.3	86	n.	2	0.9		2 ck	2 s	ne.		0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.40	695.9	30.19	766.8	72	22.2	48	e.	1	0.4		3 c	0			0	0	clear	S. Wheaton.
Behring Island, Behring Sea	29.68	753.9	29.70	754.4	52.3	11.3		s.	13	5.8			fg.			0	0	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.40	721.3	30.15	765.8	57	13.9	93	nw.	2	0.9		0	hz.			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.65	753.1	29.68	753.9	75	23.9	85	sw.	12	5.4			10 ks			0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.24	691.9	29.99	761.7	69	20.6	57	s.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.48	748.8	29.64	752.8	74.0	23.3	86	sw.	8	3.6			10 s		sw.	0.53	13.5	cloudy	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.03	762.7	74.8	23.8	90	calm	0	0		1 c	0			0	0	clear	M. McCarty.
Buffalo, New York	28.98	736.1	29.71	754.6	61	16.1	84	sw.	11	4.9		4cs;ck	0	sw.		0.25	6.3	fair	Clarence Weaver.
Buford, Fort, Dakota	28.25	717.5	30.19	766.8	51	10.6	74	ne.	2	0.9		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.28	743.7	29.57	751.1	69.0	20.6	90	s.	10	4.5			10 n		w.	2.06	52.3	light rain	G. C. Schaeffer.
Cairo, Illinois	29.63	752.0	30.02	762.5	65.6	18.7	75	n.	7	3.1		1 c	0	w.		0.19	4.8	clear	W. H. Ray.
Campo, California	27.39	695.7	29.89	759.2	67	19.4	90	ne.	2	0.9		4 ck	4 ks	se.	e.	0.28	7.1	cloudy	W. H. Glendenon
Cape Henry, Virginia	29.74	755.4	29.76	755.9	76	24.4	85	w.	10	4.5		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.69	754.1	29.72	754.9	73.0	22.8	82	nw.	18	8.0		0	0			1.52	38.6	clear	W. E. Smith.
Cape Mendocino	29.50	749.3						n.	12	5.4		0	0			0	0	clear	J. R. Williams.
Cedar Keys, Florida	29.99	761.7	30.01	762.2	84	28.9	72	nw.	10	4.5		0	1 ks		w.	0	0	clear	F. W. Mixer.
Champaign, Illinois	29.15	740.4	29.94	760.5	59.0	15.0	70	nw.	8	3.6		0	hz			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	29.84	757.9	29.89	759.2	81	27.2	74	w.	8	3.6		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.00	736.6	29.83	757.7	78.0	25.6	64	w.	3	1.3		0	hz.			0.01	0.3	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.14	740.1	29.95	760.7	72.0	22.2	84	sw.	6	2.7		0	2k;fg.		sw.	0.46	11.7	clear	B. L. Goulding.
Cheyenne, Wyoming	24.34	618.2	30.04	763.0	51.2	10.7	74	n.	2	0.9		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.22	742.2	29.91	759.7	57.5	14.2	76	w.	4	1.8		10 ck	0	w.		0.12	3.0	cloudy	J. Mitchell.
Chincoteague, Virginia	29.72	754.9	29.74	755.4	75	23.9	76	nw.	14	6.3		2 k	0	nw.		0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.30	744.2	29.94	760.5	63.3	17.4	67	nw.	6	2.7		0	0			0.11	2.8	clear	J. F. Harrold.
Cleveland, Ohio	29.08	738.6	29.80	756.9	62.2	16.8	69	nw.	12	5.4		0	5 k		nw.	0.96	24.4	fair	J. B. Newlin.
Coleman City, Texas	28.31	719.1	30.05	763.3	70	21.1	90	sw.	2	0.9		6 cs	0			0.06	1.5	fair	L. Dorman.
Columbus, Ohio	29.03	737.3	29.86	758.4	57	13.9	74	nw.	8	3.6		0	0			0.84	21.3	clear	D. Cuthbertson.
Concho, Texas	28.20	716.3	30.06	763.5	66	18.9	84	calm	0	0		3 ck	2 s			0.08	2.0	fair	W. W. McConihe.
Custer, Fort, Montana	27.06	687.3	30.12	765.0	65	18.3	58	calm	0	0		0	3 s		calm	0	0	clear	W. B. Lamar.
Davenport, Iowa	29.34	745.2	29.97	761.2	58	14.4	80	nw.	4	1.8		0	0			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.29	642.4	29.94	760.5	65	18.3	75	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.26	717.8	29.97	761.2	68.2	20.1	59	se.	1	0.4		0	0			0	0	clear	H. Chilford.
Deadwood, Dakota	25.67	652.0	30.10	764.5	51	10.6	74	sw.	4	1.8		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					74	23.3	60	s.	4	1.8		2 cs	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.72	754.9	29.74	755.4	72	22.2	90	nw.	17	7.6		0	1 k			0.03	0.8	clear	T. S. Townsend.
Denison, Texas	29.26	743.2	30.04	763.0	72.8	22.7	84	n.	6	2.7			10 s			0	0	cloudy	J. McGlone.
Denver, Colorado	25.00	635.0	30.02	762.5	60.5	15.8	74	s.	1	0.4		0	3 s		nw.	0.01	0.3	clear	F. M. Neal.
Des Moines, Iowa	29.19	741.4	30.07	763.8	57	13.9	80	n.	3	1.3		3 c	0	n.		0	0	clear	F. W. Conrad.
Detroit, Michigan	29.10	739.1	29.79	756.7	57.7	14.3	74	w.	8	3.6			10 s		w.	0.50	12.7	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.63	701.8	30.11	764.8	64	17.8	84	nw.	4	1.8			10 s		n.	0	0	cloudy	W. M. Mattingly.
Dubuque, Iowa	29.30	744.2	29.99	761.7	55.7	13.2	84	calm	0	0		2 ck	1 ksha	ne.		0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.28	743.7	30.00	762.0	53	11.7	86	w.	16	7.2		0	7 n		w.	0.06	1.5	light rain	N. B. Conger.
Eagle Pass, Texas	29.30	744.2	30.09	764.3	73.0	22.8	97	se.	1	0.4			10 s			0.87	22.1	cloudy	F. Belford.
Eagle Rock, Idaho	25.48	647.2	30.03	762.7	65	18.3	56	n.	10	4.5		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.61	752.1	29.68	753.9	60.0	15.6	100	s.	10	4.5			fg.		s.	0.12	3.0	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.26	692.4	29.90	759.4	65	18.3	84	ne.	12	5.4			10 s		ne.	0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.37	669.8	29.97	761.2	63	17.2	78	e.	1	0.4		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.04	737.6	29.75	755.6	63	17.2	73	w.	10	4.5			8 k		w.	1.23	31.2	cloudy	Peter Wood.
Escanaba, Michigan	29.24	742.7	29.88	758.9	53	11.7	86	nw.	11	4.9			10 s		nw.	0.04	1.0	cloudy	George Heathcote.
Fredericksburg, Texas	28.37	720.6	30.08	764.0	72	22.2	90	calm	0	0		0	9 s			0.02	0.5	cloudy	Frank Halwegler.
Galveston, Texas	30.03	762.7	30.08	764.0	80	26.7	88	n.	4	1.8		8 cs	2 k	se.		inap.	inap.	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.21	741.9	29.86	758.4	56.5	13.6	80	nw.	11	4.9			10 s		nw.	0.17	4.3	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.33	643.4	29.90	759.4	69.9	21.1	47	e.	6	2.7		0	0			0	0	clear	Robert O. Lord.
Hatteras, North Carolina	29.76	755.9	29.78	756.4	82	27.8	72	sw.	14	6.3		0	hz.			0	0	clear	R. M. Crawford.
Helena, Montana	26.01	660.6	30.10	764.5	75	23.9	58	s.	4	1.8		0	0			0.02	0.5	clear	N. C. Smith.
Henrietta, Texas	29.09	738.9	30.09	764.3	76.0	24.4	82	calm	0	0		0	4 s			0	0	fair	J. W. Byram.
Huron, Dakota	28.80	731.5	30.14	765.5	48.3	9.1	89	nw.	4	1.8		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.15	740.4	29.92	760.0	63	17.2	73	nw.	3	1.3		0	hz.			0.40	10.2	clear	O. Schutze
Indianola, Texas	30.05	763.3	30.08	764.0	79.1	26.2	88	calm	0	0		2 c	1 ks	nw.	s.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.90	734.0	30.02	762.5	70	21.1	84	sw.	5	2.2		2 ck	3 ks	nw.		0	0	fair	J. P. Sherry.
Jacksonville, Florida	29.93	760.2	29.97	761.2	85	29.4	72	sw.	3	1.3		0	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.73	704.3	30.16	766.1	56	13.3	60	ne.	2	0.9		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.35	745.5	29.98	761.5	61.0	16.1	78	nw.	1	0.4		3 cs	0	nw.		0	0	clear	F. Z. Gosewisch
Key West, Florida	30.01	762.2	30.03	762.7	85.0	29.4	74	n.	8	3.6		0	0			0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	29.75	755.6	29.77	756.1	80	26.7	74	w.	11	4.9		hz.	0			0.01	0.3	clear	E. A. Beals.
Knoxville, Tennessee	28.93	734.8	29.94	760.5	66	18.9	98	w.	3	1.3			10 s		w.	0.09	2.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.22	742.2	29.97	761.2	61	16.1	78	n.	4	1.8		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.24	742.7	30.10	764.5	59	15.0	81	nw.	3	1.3		2 c	0	w.		inap.	inap.	clear	A. W. Browne.
Lewiston, Idaho	29.14	740.1	29.95	760.5	80.0	26.7	58	ne.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.70	754.4	30.01	762.2	71	21.7	94	nw.	1	0.4		2 ck	7 ks	sw.	nw.	0.16	4.1	cloudy	W. U. Simons.
Los Angeles, California	29.53	750.0	29.92	760.0	61.2	16.2	72	se.	3	1.3		0	6 s			0	0	fair	Egbert van Dyke.
Louisville, Kentucky	29.39	746.5	29.94	760.5	63	17.2	68	n.	6	2.7		2 cs	0			0.01	0.3	clear	H. C. Smyth.
Lynchburg, Virginia	29.11	739.4	29.78	756.4	74.2	23.4	60	w.	5	2.2		0	0			0.02	0.5	clear	Lewis Duane.
Macon, Fort, North Carolina	29.81	757.2	29.82	757.4	80	26.7	74	w.	10	4.5		hz.	0			0	0	clear	F. P. Chaffee.
Madison, Wisconsin	28.96	735.6	29.94	760.5	57	13.9	80	n.	9	4.0		0	9 s		nw.	0	0	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.88	657.3			60	15.6	62	ne.	7	3.1		2 k	0	w.		0	0	light smoke.	H. W. Dodge.
McKavett, Fort, Texas	27.79	705.9	30.00	762.0	70	21.1	81	se.	1	0.4			10 s			inap.	inap.	cloudy	J. E. Thatcher.
Marquette, Michigan	29.22	742.2	29.93	760.2	53	11.7	80	n.	10	4.5			10 s		nw.	0.05	1.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.68	753.9	30.01	762.2	70	21.1	94	w.	1	0.4		0	8 s		w.	0.51	13.0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.18	741.2	29.91	759.7	54	12.2	86	nw.	9	4.0			10 s		nw.	0	0	cloudy	W. Line.

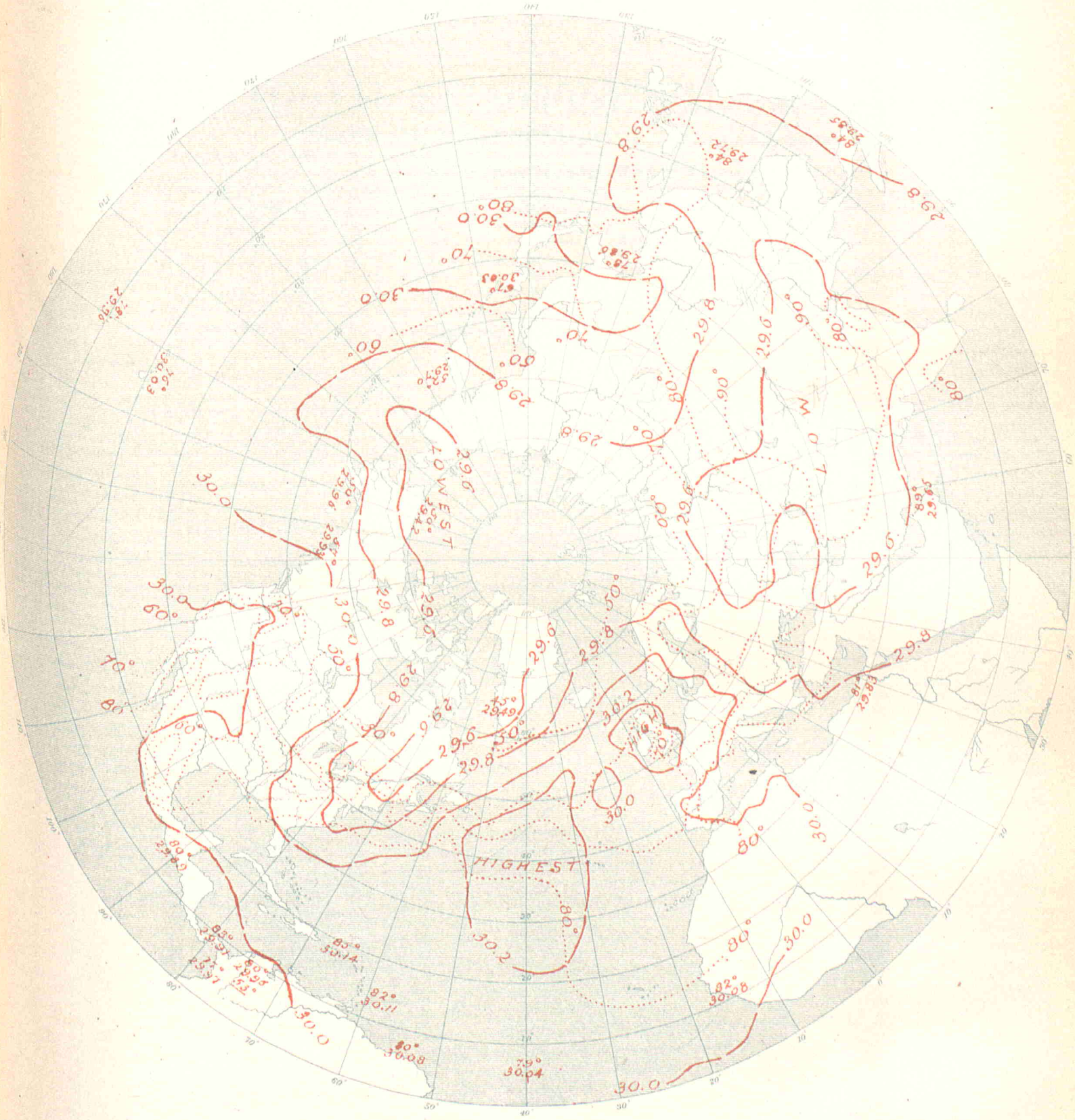
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.91	683.5	30.13	765.3	68	20.0	84	sw.	1	0.4		0	0			0.07	1.8	clear	J. H. Jones.
Mobile, Alabama	29.98	761.5	30.02	762.5	78	25.6	76	w.	6	2.7		1 c	0	nw.		0	0	clear	C. A. Read.
Montgomery, Alabama	29.76	755.9	29.99	761.7	74	23.3	87	w.	5	2.2		4 k	2 s	w.	w.	inap.	inap.	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.14	740.1	30.11	764.8	52.1	11.2	86	calm	0	0		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.82	732.0	29.82	757.4	68.0	20.0	87	sw.	6	2.7			10 s		sw.	0.46	11.7	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.59	599.2	29.67	753.6	50.0	10.0	98	w.	46	20.6			fg.		w.	1.14	29 0	dense fog	J. G. Linsley.
Nashville, Tennessee	29.39	746.5	29.95	760.7	70.0	21.1	78	w.	5	2.2		7 cs	0	w.		0.07	1.8	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.54	750.3	29.66	753.4	73	22.8	82	sw.	5	2.2		0	4 ks		sw.	0	0	fair	J. H. Sherman.
New London, Connecticut	29.62	752.3	29.67	753.6	74	23.3	84	s.	6	2.7		6 k	4 s	sw.	sw.	0.01	0.3	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.04	763.0	79.7	26.5	83	w.	4	1.8		9 c;cs	sk.	w.		0	0	cloudy	L. Dunne.
Newport, Rhode Island	29.62	752.3	29.67	753.6	74.2	23.4	93	s.	7	3.1		0	5 ks		sw.	0	0	fair	W. McGillivray.
New York, New York	29.52	749.8	29.68	753.9	71	21.7	84	w.	4	1.8		1 cs	0			inap.	inap.	clear	J. B. Merrill.
Norfolk, Virginia	29.74	755.4	29.77	756.1	79	26.1	77	w.	6	2.7		0	hz.			0.13	3.3	clear	Wm. Davis.
North Platte, Nebraska	27.33	694.2	30.13	765.3	50.1	10.1	83	ne.	3	1.3		0	0			0	0	clear	E. F. Brady.
Olympia, Washington Ty.	30.03	762.7	30.07	763.8	58.0	14.4	90	n.	1	0.4			10 s		s.	0	0	cloudy	J. Dascomb.
Ogalaamie, Pt. Barrow, Alas.	29.41	747.0	29.42	747.3	50.0	10.0	94	ssw.	27	12.1			10 n		sw.	0.10	2.5	light rain	P. H. Ray.
Omaha, Nebraska	29.00	736.6	30.14	765.5	58.1	14.5	80	nw.	6	2.7		0	4 s			0.01	0.3	fair	A. Pollak
Oswego, New York	29.32	744.7	29.64	752.8	71.0	21.7	83	sw.	3	1.3		4 k	4 ks	w.	sw.	1.38	35.1	cloudy	S. W. Beall.
Palestine, Texas	29.54	750.3	30.08	764.0	74.0	23.3	84	sw.	8	3.6		4 ck	0	w.		0	0	fair	L. M. Pindell.
Pensacola, Florida	29.98	761.5	30.01	762.2	79.0	26.1	82	w.	3	1.3		0	0			0	0	clear	M. McGauran.
Philadelphia, Pa.	29.63	752.6	29.73	755.1	72	22.2	82	w.	3	1.3		0	1 s		w.	0.13	3.3	clear	T. F. Townsend.
Pike's Peak, Colorado	18.15	461.0	29.91	760.5	35.5	1.9	73	n.	15	6.7		0	4 ks		n.	0.02	0.5	fair	L. M. Dey.
Pioche, Nevada	24.22	615.2	29.92	760.0	66.3	19.1	48	s.	8	3.6		0	2 ks		calm	inap.	inap.	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.00	736.6	29.78	756.4	64.8	18.2	84	w.	6	2.7			10 ks		w.	0.19	4.8	cloudy	J. B. Turton.
Poplar River, Montana	28.11	714.0						ne.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.05	763.3	30.06	763.5	79.5	26.4	90	nw.	8	3.6		0	0			0	0	clear	M. Hermann.
Port Huron, Michigan	29.08	738.6	29.74	755.4	56.0	13.3	90	calm	0	0			10 s		nw.	0.17	4.3	cloudy	W. O. Bailey.
Portland, Maine	29.55	750.6	29.60	751.8	71.0	21.7	90	sw.	10	4.5			10 s		sw.	0.08	2.0	cloudy	W. W. Eichelberger.
Portland, Oregon	29.97	761.2	30.03	762.7	62.2	16.8	87	nw.	4	1.8		0	hz.			0	0	clear	M. L. Hearne.
Prescott, Arizona	21.92	633.0	29.90	759.4	61	16.1	84	s.	2	0.9		0	0			0.03	0.8	clear	J. McN. Wright.
Provincetown, Mass.	29.62	752.3	29.65	753.1	75	23.9	90	s	13	5.8		2 ck	2 s	sw.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.01	762.2	30.02	762.5	82.5	28.1	77	n.	10	4.5		3 c	4 k	calm	nw.	0	0	fair	W. J. Evans.
Red Bluff, California	29.64	752.8	30.00	762.0	67.8	19.9	41	nw.	6	2.7		1 c	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.85	758.2	30.09	764.3	77	25.0	88	se.	2	0.9		0	0			0	0	clear	H. S. Miles.
Rochester, New York	29.02	737.1	29.67	753.6	64	17.8	84	w.	10	4.5		0	3 ks		w.	0.13	3.3	clear	E. W. McGann.
Roseburg, Oregon	29.55	750.6	30.09	764.3	53	11.7	72	e.	1	0.4		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.89	759.2	29.96	761.0	62.9	17.2	56	s.	6	2.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.44	747.8	30.02	762.5	61.5	16.4	93	nw.	7	3.1		2 c	0	w.		0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.18	741.2	30.02	762.5	56.0	13.3	74	w.	1	0.4		1 ck	0	nw.		0	0	clear	P. F. Lyons
St. Vincent, Minnesota	29.27	743.4	30.12	765.0	46	7.8	93	w.	3	1.3		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	28.77	654.5	29.96	761.0	72	22.2	48	n.	3	1.3		3 c; k	0	sw.		0	0	clear	J. Craig.
San Antonio, Texas	29.39	746.5	30.08	764.0	74.0	23.3	90	calm	0	0			10 s			0.01	0.3	cloudy	T. J. Kenan.
San Diego, California	29.74	755.4	29.81	757.2	69.2	20.7	90	w.	7	3.1		2 ck	8 s	e.	e.	inap	inap.	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.16	740.7	29.82	757.4	60	15.6	75	w.	12	5.4			10 s		w.	0 60	15.2	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.05	753.1	29.68	753.9	73.0	22.8	84	w.	10	4.5		0	0			0.13	3.3	clear	B. A. Blundon.
San Francisco, California	29.98	761.5	30.05	763.3	53.5	11.9	86	sw.	10	4.5		0	0			0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.46	595.9	29.95	760.7	59	15.0	50	e.	5	2.2		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.83	757.7	29.92	760.0	85	29.4	65	sw.	5	2.2		0	0			0	0	clear	H. W. Ford.
Shaw, Fort, Montana	20.60	675.6	30.12	765.0	64	17.8	78	w.	2	0.9		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.80	756.0	30.03	762.7	75	23.9	85	sw.	4	1.8		1 cs	4 ks		sw.	0	0	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.85	732.8	30.03	762.7	71.5	21.9	80	n.	12	5.4		3 cs	7 s	w.	n.	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.43	620.5	29.80	759.2	56	13.3	51	n.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.87	758.7	29.93	760.2	56.5	13.6	77	calm	0	0		0	0			0	0	clear	J. J. McLean.
Smith, Fort, Arkansas	29.56	750.8	30.02	762.5	71.5	21.9	90	n.	8	3.6			10 s		n.	0.22	5.6	threatening	J. B. Campbell.
Smithville, North Carolina	29.81	757.2	29.85	758.2	80	26.7	72	w.	8	3.6		0	0			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.05	712.5	30.05	763.3	74	23.3	73	e.	2	0.9		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.32	744.7	29.98	761.5	61.8	16.6	79	nw.	4	1.8		1 c	2 s	w.	nw.	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.51	749.5	29.61	752.8	77.8	25.4	70	s.	2	0.9		0	4 ks		sw.	1.78	45.2	fair	T. S. Outram.
Springfield, Mo.	28.65	727.7	30.04	763.0	62	16.7	86	ne.	7	3.1		2 cs	fg.			0.02	0.5	clear	J. B. Marbury.
Starkville, Miss.	29.53	750.0	30.00	762.0	78	25.6	69	w.	6	2.7		5 ck	1 s	nw.		0	0	fair	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.36	720.3	30.14	765.5	54	12.2	86	nw.	3	1.3		0	0			0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.11	688.6	30.05	763.3	65.5	18.6	90	calm	0	0		0	0			0	0	clear	J. O'Dowd.
Thomas Camp	27.33	694.2	29.95	760.7	65.5	18.6	91	se.			1	0	0			0.08	2.0	clear	
Thatcher's Island, Mass.	29.62	752.3	29.67	753.6	61.0	16.1	93	s.	7	3.1			fg.			0.84	21.3	dense fog	G. Liebmann.
Toledo, Ohio	29.15	740.4	29.82	757.4	58	14.4	80	w.	5	2.2			10 s		w.	0.30	7.6	cloudy	A. Buell.
Tucson, Arizona	27.55	699.8	29.89	759.2	76	24.4	50	s.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.62	752.3	29.98	761.5	71	21.7	44	e.	3	1.3		0	0			0	0	clear	J. Daly.
Uvalde, Texas	29.12	739.6	30.06	763.5	73	22.8	97	se.	2	0.9		10 cs	0	sw.		0.09	2.3	cloudy	E. C. Imlay.
Verde, Fort, Arizona					71.8	22.1	59	n.			1	0	2 s		nw.	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.77	756.1	30.01	762.2	75	23.9	85	s.	1	0.4		0	4 s		s.	0	0	fair	James Kenealy.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.76	628.9	30.10	764.5	59.0	15.0	72	calm	0	0		7 k	0			0	0	fair	T. M. Ambler.
Washington, D. C.	29.66	753.4	29.77	756.1	71.1	21.7	76	nw.	4	1.8		0	0			0.05	1.3	clear	F. M. M. Beall.
West Las Animas, Colorado	26.27	667.2	30.02	762.5	62.9	17.2	93	e.	6	2.7		0	4 s			0.05	1.3	fair	F. H. Brandenburg.
Williamsport, Pa.	29.13	739.9	29.71	754.6	67	19.4	84	w.	6	2.7		0	3 ks		w.	0.19	4.8	clear	B. F. Hough.
Wilmington, N. Carolina	29.79	756.7	29.84	757.9	80	26.7	77	w.	5	2.2		hz	0			c	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.72	653.3	29.95	760.7	65	18.3	38	e.	4	1.8		3 c	0	sw.		0	0	clear	J. Grover.
Yankton, Dakota	28.89	733.8	30.16	766.1	55	12.8	74	n.	4	1.8		0	0			0	0	clear	J. H. Attfield.
Yuma, Arizona	29.67	753.6	29.81	757.2	84.7	29.3	66	se.	13	5.8			10 s		se.	0.03	0.8	cloudy	O. D. Stewart
Sub-stations.																			
Bogota, U. S. Columbia	22.08	560.8			52.5	11.4	76	sw.	7	3.1			8 s:n		w.	0.22	5.6	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.10	764.5	30.11	764.8	82	27.8	91	e.				5 k	3 ks		e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.94	760.5	29.97	761.2	77	25.0	95	calm	0	0			10 ks		s.	2.80	71.1	threatening	J. I. Plume.
Havana, Cuba†	30.00	762.0	30.06	763.5	80	26.7	79	nw.	3.6	1.6		10 c	2 n			0	0	cloudy	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	30.05	763.3	30.06	763.5	79.4	26.3	80	n.	2	0.9		3 cs	3 s	e.	e.	0	0	fair	Robert Johnston.
Magua, San Domingo, W. I					72	22.2						0	0			0	0		S. M. Pike.
Navassa	29.96	761.0	30.04	763.0	81.5	27.5	78	e.	8	3.6		2 k	3 ck	e	se.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.08	764.0	30.08	764.0	80	26.7	87	se.			2	3 c	4 k	e.	e.	0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.40	746.7	29.96	761.0	80	26.7	89	calm			0		10 ks		s.	0.08	2.0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							95	ne.			3	4 ck	0	se.		0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alas*†	29.90	759.4	29.96	761.0	50	10.0	100	n.			3		10 n			0.12	3.0	rain and fog	W. J. Fisher.
St. Thomas, W. I.	30.05	763.3	30.18	766.6	83	28.3	74	ese.					3 k		ese.	0	0	clear	Aug. Walloe.
York Factory, B. A.	29.91	759.7	29.97	761.2	49.0	9.4	93	s.	14	6.3		2 k	2 s	w.	n.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S Alert, N. 19° 30′, W. 32° 33′	30.16	766.1	77.8	25.4	68	ne.			3		4							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.83	757.7	81	27.2	78	wnw.			3		7	wnw.				3	wnw.	d. clouds.
H. M. S. Amethyst, Santos Bay, Brazil	30.17	766.3	70	21.1	74	wsw.			1		2	sw.						d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.75	755.6	74	23.3		nne.			3		5	nne.						d. clouds.
H. M. S. Arab, Muscat, Arabia	29.55	759.6	89	31.7	76	se.			3		4	se.						misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.18	766.6	58.5	14.7		wnw.			2-3		3	e.						misty.
H. M. S. Champion, Wrangel Bay, Corea			65	18.3	83	ese.			1-2		3							d. clouds.
H. M. S. Cleopatra, N. 45° 31′, E. 139° 20′	30.07	763.8	67	19.4		sw.			2		0					1	sw.	blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	30.07	763.8	56	13.3	74	calm			0		3							d. clouds.
H. M. S. Diamond, S. 10° 15′, E. 161° 42′	29.94	760.5	78.5	25.8	90	calm			0		2							d. clouds.
H. M. S. Dido, N. 17° 07′, W. 66° 40′	30.16	766.1	82	27.8		e.			4		4	e.				2	e.	d. clouds.
H. M. Dock Yard, Bermuda, W. I.	29.99	761.7	79	26.1	93	ssw.			3-4		7	ssw.						raining.
H. M. S. Druid, N. 49° 33′, W. 7° 06′	30.24	768.1	66	18.9	94	ene.			1		0					1	ese.	misty.
H. M. S. Emerald, N. 43° 00′, W. 19° 06′	30.09	764.3	66.5	19.2	94	nw.			1-2		10	nnw.				2	nne.	d. clouds.
H. M. S. Espiegle, S. 17° 40′, E. 168° 11′	29.98	761.5	70	21.1	84	calm			0		7							d. clouds.
H. M. S. Fantome, N. 12° 25′, W. 69° 16′	30.02	762.5	82	27.8		ene.			4		5	ene.				3	ene.	d. clouds.
H. M. S. Flying Fish, N. 33° 00′, E. 127° 55′	29.95	760.7	80	26.7	93	ene.			5-6		4					3	e.	squally.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	29.99	761.7	59	15.0	87	nnw.			2		10							misty.
H. M. S. Iron Duke, N. 45° 40′, E. 139° 06′	30.03	762.7	67	19.4	94	sw.			2-3		4	sw.				2	sw.	d clouds.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.97	761.2	77.3	25.2	92	sw.			1		3							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.93	760.2	52	11.1		ne.			1							1	n.	foggy.
H. M. S. Magpie, N. 35° 07′, E. 128° 40′	30.05	763.3	81.5	27.5	74	nne.			1-2		0							blue sky.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.80	756.9	80.5	26.9	70	wnw.			3		3							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.79	756.7	69.5	20.8	92	sw.			3		9	wsw.						d. clouds.
H. M. S. Orontes, N. 37° 30′, E. 6° 00′	29.99	761.7	77.5	25.3	95	calm			0		5							d. clouds.
H. M. S. Pegasus, N. 1° 31′, E. 103° 01′	29.85	758.2	84	28.9	83	ese.			1		5							d. clouds.
H. M. S. Sappho, Honolulu, Sandwich Islands	30.03	762.7	76	24.4	90	ne.			1		3							d. clouds.
H. M. S. Swiftsure, Borgia Bay, Patagonia	29.39	746.5	42	5.6	83	wnw.			1-3		8	nnw.						showery.
H. M. S. Sylvia, English Bank, Uruguay	30.24	768.1	51	10.6	93	wnw.			2		2							d. clouds.
H. M. S. Tenedos, N. 50° 45′ W. 56° 08′	29.89	759.2	57	13.9	93	se.			1		10							rain & fog.
H. M. S. Triumph, S. 43° 42′, W. 59° 26′	29.65	753.1	45	7.2	76	wsw.			5-6		0					5	sw.	blue sky.
H. M. S. Tyne, N. 39° 44′, W. 9° 22′	30.04	763.0	70	21.1	79	ne.			1		10					1	n.	overcast.
H. M. S. Woodlark, Jask, Persia	29.51	749.5	85.5	29.7	68	se.			4-5		6							misty.
H. M. S. Zephyr, N. 48° 08′, E. 139° 41′	29.87	758.7	63	17.2	100	sw.			1		10					2	sse.	foggy.
PORTUGUESE NAVAL.																		
Rio Lima, Bulama, Senegambia	30.08	763.9	81.5	27.5	85	nw.			1		6			16 h'r	16 h'r	2		raining.
Tamega, Macao, China	29.65	753.0	85.1	29.5	74	calm			0		10			40 mi	nutes			raining.
SWEDISH NAVAL.																		
Saga, N. 55° 16′, E. 13° 55′	30.00	762.0	65.3	18.5	91	ene.			1		2							d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.04	763.0	79	26.1	73	w.	4	1.8			0			0	0			clear.
Navy Yard, Portsmouth, N. H	29.64	752.8	65	18.3	94	calm	0	0			10			0.1	3			foggy.
Naval Hospital, Yokohama, Japan*	29.93	760.2	77.5	25.3	91	calm			0		10		ne.	0.05	1.3			light rain.
Adams, Mare Island, Cal			58	14.4	82	sw.			3		0			0	0	sm'h		clear.
Alaska, S. 7° 17′, W. 103° 51′	29.98	761.5	70	21.1	100	se.			3		8		se.	0	0	long	s.	fair.
Alliance, N. 42° 20′, W. 70° 48′	29.65	753.1	70	21.1	95	s.			1		5			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan*	29.90	759.4	79	26.1	95	wnw.			1		10		w.					light rain.
Brooklyn, Rio de Janeiro, Brazil	30.22	767.6	67	19.4	95	n.	9	4.0			2		ne.	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.66	753.4	73	22.8	85	w.	6	2.7			2		calm	0	0			misty.
Constellation, N. 38° 44′, W. 71° 22′*	29.76	755.9	79	26.1	91	ssw.			4		5		ssw.			mod.	ssw.	fair.
Essex, Coquimbo, Chili	29.98	761.5	54	12.2	87	nw.			0-1		0?					sm'h	nw.	overcast.?
Franklin, Norfolk, Va	29.76	755.9	75	23.9	95	wsw.	7	3.1			0			0.11	2.8			clear.
Galena, N. 27° 48′, W. 19° 50′	30.12	765.0	76	24.4	91	ne.			3		8		ene.			mod.	ene.	cloudy.
Independence, Mare Island, Cal	30.05	763.3	57	13.9	100	sw.			2		2			0	0			clear.
Iroquois, Magdalena Bay, Cal	30.06	763.5	71	21.7	85	calm			0		8			0	0			cloudy.
Kearsage, Norfolk, Va	29.77	756.1	77	25.0	95	wnw.			1		0							clear.
Lackawanna, Callao, Peru*	29.96	761.0	61	16.1	88	nw.			1		10							cloudy.
Lancaster, Villafranca, France*	29.89	759.2	79	26.1	82	ese.			1		2		ese.	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	30.15	765.8	48	8.9	100	nnw.			3		2		w.	0	0	sm'h		clear.
Michigan, Racine, Wisconsin	29.88	758.9	57	13.9	87	w.			2		5		w.					fair.
Minnesota, off New York, N. Y.	29.71	754.6	72	22.2	85	wnw.	1	0.4			2							clear.
Monocacy, Che Foo, China	30.08	764.0	77	25.0	82	se.			1		8		calm			sm'h		fair.
New Hampshire, Newport, R. I.	29.70	754.4	73	22.8	85	sw.			3		10?		sw.			sm'h		clear ?
Nipsic, Villafranca, France*	29.89	759.2	77	25.0	77	ese.			2		2					sm'h		clear.
Onward, Callao, Peru†	30.12	765.0	58	14.4	94	nnw.			2		10		s.			long	w.	cloudy.
Palos, Kobe, Japan*	29.92	760.0	82	27.8	75	ne.			1		2		nw.					fair.
Passaic, Washington, D. C.	29.80	756.9	72	22.2	95	nw.			2		2							clear.
Pensacola, Panama, Panama*	29.82	757.4	80	26.7	96	nw.	6	2.7			8		nw.	light	light	sm'h		cloudy.
Portsmouth, N. 36° 36′, E. 2° 40′*	29.91	759.7	81	27.2	78	calm			0		10					sm'h		cloudy.
Powhatan, Norfolk, Va	29.75	755.6	74	23.3	?	sw.			1		0							fair.
Quinnebaug, Alexandria, Egypt*	29.76	755.9	80	26.7	87	nw.			4		0					sm'h		hazy.
Ranger, Mare Island, Cal	30.06	763.5	60	15.6	76	sw.			2		0			0	0			clear.
Richmond, Yokohama, Japan*	29.92	760.0	80	26.7	96	ssw.			2		10		e.	0.05	1.3			rainy.
Saratoga, N. 43° 16′, E. 6° 57′	29.89	759.2	79	26.1	86	ese.			1		8		ese.	0	0	sm'h		clear.
St. Louis, League Island, Pa	29.92	760.0	72	22.2	85	w.			2		2			0	0			clear.
Swatara, N. 29° 24′, E. 123° 56′*	29.67	753.6	82	27.8	83	e.			6		5		s.			h'vy	e.	fair.
Tennessee, N. 42° 20′ W. 70° 46′	29.66	753.4	70	21.1	90	ssw.	6	2.7			8		w.	0.28	7.1			cloudy.
Vandalia, Portsmouth, N. H*	29.57	751.1	65	18.3	100	calm			0		10		calm					foggy.
Wabash, Boston, Mass	29.62	752.3	74	23.3	90	sw.	7	3.1			8		sw.	0.22	5.6			fair.
Wachusetts, Fort Wrangle, Alaska †	30.19	766.8	56	13.3	94	ne.			1		2		calm	0	0	sm'h		clear.
Wyoming, Port Royal, S. C*	29.87	758.7	80	26.7	74	w.	14	6.3			2		calm	0	0			clear.
Yantic, N. 42° 21′, W. 70° 48′	29.63	752.6	68	20.0	95	sw.			2		8							foggy.
MERCHANT MARINE.																		
ALLAN LINE.																		
S. S. Grecian, Southampton, England *	30.21	767.3	72	22.2		ne.			1		1		ne.	0	0			fair.
S. S. Polynesian, N. 54° 20′, W. 44° 07′*	29.71	754.6	54	12.2		sw			3		10		sw.	9 h'r	9 h'r	mod.	sw.	light rain.
S. S. Scandinavian, N. 49° 04′ W. 39° 30′	30.00	762.0	63	17.2		ssw.			2		5		wsw.	0	0	light	wsw.	d. clouds.
S. S. Waldensian, N. 55° 23′ W. 12° 02′ *	30.22	767.6	61	16.1		var.			1		2		ssw.	0	0	light	s.	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N 42° 53′, W. 46° 52′†	30.37	771.4	72	22.2		wnw.			1		6		ssw.	0	0	sm'h		cloudy.
S. S. Indiana, Philadelphia, Pa.†	29.82	757.4	78	25.6	90	ese.			3		2		e.					fine.
S. S. Lord Clive, Philadelphia, Pa.*†	29.90	759.4				w.			2		4		w.	0	0			fine.
S. S. Ohio, Philadelphia, Pa. †	29.64	752.8	71	21.7	95	w.			2		1		w.					fair.
AMSTERDAM LINE.																		
S. S. Jason, N. 43° 03′, W. 51° 22′*	30.26	768.6	64.4	18		sse.			3		10 n					2	sse.	foggy.
S. S. Stella, N. 41° 39′, W. 64° 26′	29.89	759.1	73.4	23		ssw.			4		3		sw.	0	0	5	w.	d. clouds.
ANCHOR LINE.																		
S. S. Alexandria, Palermo, Sicily	29.87	758.7	81	27.2		n.			2		2		n.	0	0			clear.
S. S. Assyria, N. 48° 42′, W 25° 03′†	30.07	763.8	62	16.7		n.			4		8		ne.	0	0	sm'h		overcast.
S. S. Bolivia, N. 51° 19′, W. 34° 49′ *†	30.24	768.1	58	14.4		ssw.			2		0			0	0	sm'h		fine.
S. S. Dorian, N. 42° 28′, W. 68° 09′*	29.57	751.1	70	21.1		s.			4		0			0	0	mod.	s.	foggy.
S. S. Ethiopia, N. 42° 55′, W. 51° 00′	30.26	768.6	55	12.8	100	se.			2		10		se.	0	0	sm'h		dense fog.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	Upper. 0-10	Lower. 0-10	Upper. From	Lower. From.	Inch.	Mill.	Character.	Direction from.	
Atlas Line.																		
S. S. Ailsa, Cartagena, U. S. C.†	30.00	762.0	81	27.2	87	nw.			3		5			0	0			fair.
S. S. Alene, Jeremie, Hayti, W. I.†	30.02	762.5												0	0			clear.
S. S. Alpin, Maracaibo, Venezuela	29.98	761.5				se.			1		1		se.	0	0		se.	clear.
S. S. Antillas, San Juan del Sur, Nicaragua.†	30.05	763.3	86	30.0		ne.			1		2		ne.	rain	rain			clear.
British Meteorological Office.																		
Auckland, S. 41° 50′, E. 30° 42′	29.93	760.2	57	13.9	94	n.			6		9							overcast.
S. Baroda, S. 1° 17′, W. 17° 41′	30.18	766.6	74.5	23.6	85	se.			4		3							d. clouds.
Bk. Caldew, S. 34° 33′ W. 0° 38′	30.38	771.6	59.3	10.2	78	sw.			6		7							d. clouds.
S. S. Cipero, N. 48° 37′, W. 17° 09′	30.03	762.7	03.2	17.3	88	ssw.			2		6							showery.
Bk. Commewyne, N. 42° 51′, W. 35° 40′	30.27	768.8	72.4	22.4	71	ne.			4		8							d. clouds.
S. S. City of Agra, S. 39° 54′, W. 2° 30′	30.33	770.4	44	6.7	92	ssw.			5		5							d. clouds.
S. S. Humboldt, Montevideo, Uruguay	30.27	768.8	52.5	11.4		wnw.			3		2							blue sky
Bkt. May Hulse, N. 36° 00′, W. 36° 57′	30.23	767.8	81	27.2	70	ne.			2		2							raining.
S. S. Minho, S. 6° 26′, W. 33° 30′	30.14	765.5	76.9	24.9	95	se.			4		9							misty.
S. S. Oamaru, N. 1° 37′, W. 21° 24′	30.18	766.6	76.5	24.7	77	se.			4		4							overcast.
S. S. Mertola, N. 37° 55′, W. 10° 12′	30.10	764.5	69.5	20.8	90	nnw.			4		10							misty.
S. S. Pole Star, N. 50° 29′, W. 14° 23′	30.12	765.0	62.2	16.8	97	sse.			4		8							
California and Mexican Steamship Company.																		
S. S. Mexico, N. 22° 54′, W. 109° 43′.*†	29.97	761.2	77	25.0	90	s.			1		10?		s.				mod. sw.	clear?
Cunard Line.																		
S. S. Gallia, N. 48° 09′, W. 34° 08′	30.24	768.1	62	16.7	100	n.			2		10		nw.	0	0	sm'h		fine.
S. S. Marathon, N. 39° 10′, W. 9° 32′	30.05	763.3	69	20.6		calm			0		10		ssw.	0	0	sm'h	w.	cloudy.
S. S. Scythia, N. 48° 54′ W. 28° 48′	30.09	764.3	66	18.9	73	nnw.			3		10		n.	0	0			fair.
Donaldson Line.																		
S. S. Colina, N. 43° 00′, W. 50° 55′†	30.40	772.1				ene.			1		1		ene.			sm'h		foggy.
General Trans-Atlantic Company.																		
S. S. France, N. 47° 26′, W. 31° 45′†	30.19	766.7	57.2	14		n.			4	10 ck		n.		0	0	sm'h	n.	overcast.
S. S. Ville de Marseilles, N. 38° 50′, W. 42° 45′*†	30.25	768.3	79	26.1		nne.			2		3		ne.	0	0	sm'h		clear
Guion Line.																		
S. S. Arizona, N. 49° 13′, W. 38° 30′	30.22	767.6	59	15.0		ssw.			2		0			0	0	sm'h		blue sky
S. S. Wisconsin, N. 50° 40′, W. 20° 40′	29.93	760.2	64	17.8		e.			4		10		ese.	4 h'r	4 h'r	sli't	se.	hazy.
Hamburg American Packet Company.																		
S. S. Cimbria, N. 47° 53′, W. 12° 04′	30.19	766.8	66	18.9		se.			3		8		se.	0	0	mod.	se.	fair.
S. S. Herder, N. 46° 37′, W. 36° 03′*	30.03	762.7	72	22.2		wnw.			3		3		w.	0	0	sm'h	wnw.	fair.
S. S. Silesia, Hamburg, Germany	30.04	763.0	65.5	18.6		s.			0-1		7		sw.	0	0			foggy.
S. S. Westphalia, New York, N. Y.	29.63	752.6	72	22.2	97	nw.			1		2		wsw.	sq'lls	sq'lls			fair.
S. S. Wieland, N. 47° 44′, W. 37° 30′	30.33	770.4	69	18.9		sw.			1		1			0	0	1-2	sw.	clear.
Lamperf and Holt's Line.																		
S. S. Archimedes, N. 40° 30′ W. 59° 55′†	30.08	764.0				se.			3		9			0	0	mod.	se.	fine.
S. S. Hevelius, Buenos Ayres, S. A*†	30.34	770.6	52	11.1		n.			4		2			0	0			clear.
Leyland Line.																		
S. S. Bulgarian, N. 42° 19′, W. 51° 20′*	30.25	768.3				sse.			1		0			0	0			clear.
Mallory Line.																		
S. S. City of San Antonio, N. 26° 00′, W. 78° 26′*†	30.16	766.1				calm			0		2		wnw.	0	0	sm'h		fair.
S. S. Colorado, Galveston, Texas†	30.10	764.5	85	29.4		calm			0		10			0	0			overcast.
Mediterranean and New York Steamship Co.																		
S. S. Archimede, N. 36° 27′, W. 14° 18′*†	30.15	765.8	72	22.2	80	ne.			1		2		ne.	0	0	sm'h	ne.	clear.
Merchants' Express Line.																		
S. S. Freja, N. 49° 37′, W. 10° 39′†	30.26	768.6	71	21.7	85	ese.			3		hz.			0	0	sm'h		fine.
Merchants' Steamship Company.																		
S. S. Glenapp, S. 0° 23′, W. 47° 40′†	30.00	762.0				e.			5		7		var.	3 h'r	3 h'r	high	se.	raining.
Morgan Line.																		
S. S. Chalmette, N. 26° 25′, W. 80° 03′†	30.07	763.8	85	29.4		nw.			1		0			0	0	sm'h		clear.
National Line.																		
S. S. Denmark, N. 42° 30′ W. 43° 50′	30.26	768.6	70	21.1		n.			3		5		nnw.	0	0			fair.
S. S. England, Mersey River Eng.	30.28	769.1				w.			4		8		w.	0	0			hazy.
S. S. Erin, N. 51° 12′, W. 12° 46′	30.21	767.3	61	16.1	77	se.			4		4		ese.	0	0	sm'h		hazy.
New York, Havana and Mexican Mail.																		
S. S. City of Alexandria, N. 39° 44′, W. 73° 55′†	29.72	754.9	79	26.1	86	nw.			3		2		w.	2 h'r	2 h'r	mod.	se.	fair.
S. S. City of Washington, N. 22° 15′, W. 87° 05′*†	30.15	765.8	82	27.8		ene.			4		2		ene.	0	0	light	e.	fine.
North German Lloyd.																		
S. S. America, N. 41° 52′, W. 45° 45′*	30.38	771.6	75.0	23.9	77	s.			1		2		s.	0	0	sm'h	s.	fine.
S. S. Graf Bismarck, St. Cruz, Canary Id.	30.10	764.5	77.0	25.0		ne.			6		2?		ne.	0	0	sm'h	ne.	cloudy.?
S. S. Koln, N. 47° 19′, W. 32° 52′*	30.31	769.9	64.5	18.1	73	nne.			4		8		n.	4 h'r	4 h'r	mod.	n.	cloudy.
S. S. Neckar, N. 42° 16′ W. 50° 48′	30.32	770.1	65.0	18.3	94	e.			2							mod.	e.	foggy
S. S. Ohio, N. 38° 05′, W. 70° 51′	29.84	757.9				ssw.			6		3		ssw.	0	0	r'gh	ssw.	fair.
Occidental and Oriental Steamship Company.																		
S. S. Belgic, Yokohama, Japan †	30.03	762.7	80	26.7	70	n.			3		2		n.	6 h'r	6 h'r	sm'h		clear.
S. S. Gaelic N. 33° 21′, E. 135° 59′.†	30.20	767.1	76	24.4	?	e.			2		4		e.			sm'h		fine.
Ocean Steamship Company.																		
S. S. City of Augusta, New York, N. Y.†	29.71	754.6				wnw.			2		1			0	0	sm'h		clear.
S. S. Seminole, Savannah, Ga †	30.02	762.5	86	30.0	68	sw.			1		0			0	0			clear.
Oregon Railway and Navigation Company.																		
S. S. Oregon, Columbia river, Oregon†	30.13	765.3	68	20.0	95	w.			4		10		sw.					misty.
Pacific Coast Steamship Company.																		
S. S. Ancon, N. 33° 36′, W. 118° 09′†	29.88	758.9	68	20.0	90	se.			1		8		sse.			mod.	w.	cloudy.
S. S. City of Chester, San Francisco, Cal *†	30.00	762.0	53	11.7	80	calm			0		8		nw.					cloudy.
S. S. Idaho, N. 47° 35′ W. 122° 15′†	30.08	764.0	63	17.2	83	se.			1		0			0	0	sm'h		clear.
S. S. State of California, N. 45° 40′ W. 124° 10′†	30.15	765.8	47	8.3	?	nnw.			4		10		nw.			sm'h	nw.	foggy.
S. S. Victoria, San Francisco, Cal†	29.94	760.5	53	11.7	86	calm			0					0	0	sm'h		fair.
Pacific Mail Steamship Company.																		
S. S. Australia, Sydney, N. S. W.	29.93	760.2	53	11.7	93	w			4		8		w.	1 h'r	1 h'r			clear?
S. S. City of New York, Sydney, N. S. W.†	30.02	762.5	54	12.2	74	sw.			4		8		sw.	0	0			cloudy
S. S. City of Pekin, N. 47° 50′, W. 103° 39′	29.84	757.9	55	12.8	93	nne.			4		10		nne.	0	0	sm'h		misty.
S. S. City of Rio de Janeiro, N. 17° 15′, W. 101° 15′ *†	30.22	767.6	80	26.7	78	w.			1		0		w.	0.1	3.	light	sw.	clearing.
S. S. City of Tokio, Hong Kong, China†	29.65	753.1	80	26.7	87	w.			2		10		e.	1 h'r	1 h'r			rainy.
S. S. Colima, N. 22° 50′, W. 109° 27′†	29.93	760.2	78	25.6	78	sw.			3		0		s.	0	0	mod.	sw.	cloudy.
S. S. Colon, Aspinwall, Panama.†	29.91	759.7	83	28.3		nnw.			2		3		nne.	0	0	sm'h		
S. S. Costa Rica, San Jose, Guatemala†	29.89	759.2	80	26.7	82	nw.			2		0		calm	0	0	sm'h		fine.
S. S. Grenada, Panama, Panama †	29.89	759.2	84	28.9	79	nw.			2		2		nw.	1 h'r	1 h'r	sm'h	nw.	clear.
S. S. Zelandia, N. 10° 17′, W. 162° 27′	29.96	761.0	78	25.6	91	ne.			2		27		ne.			mod.	ne.	overcast?
Quebec S. S. Company.																		
S. S. Bermuda, New York, N. Y.†	29.71	754.6	74	23.3		nw.			3		4		nw.	6 h'r	6 h'r	sm'h		fine.
S. S. Muriel, Guadalupe, W. I.	30.10	764.5	83	28.3		e.			3		10			3 h'r	3 h'r	sm'h		overcast.
Red D Line.																		
S. S. Valencia, Curacon, W. I.*†	30.24	768.1	85	29.4	79	e.			6		2		e.	0	0			fine.
Red Star Line.																		
S. S. Belgenland, Philadelphia, Pa.†	29.79	756.7	77	25.0	91	calm			0		0							
S. S. Nederland, N. 42° 31′, W. 61° 56′†	29.92	760.0	69	20.6	95	s.			1		10		ssw.	0	0	sm'h	sse.	hazy.
S. S. Pennland, N. 48° 45′, W. 22° 00′	29.96	761.0				ene.			2		2		se.	0	0	sm'h	nw.	hazy
S. S. Rhynland, Antwerp, Belgium*†	30.42	772.7	65	18.3	?	w.			2		8			0	0			dull.
S. S. Vaderland, N. 40° 48′, W. 52° 20′	30.02	762.5	78	25.6	95	ese.			4		8?		ese.	0	0	sm'h		clear?
S. S. Waesland, New York, N. Y.	29.66	753.4	77	25.0		w.			3		2		w.	1½ h'r	1½ h'r			clear.
Rotterdam Line.																		
S. S. Edam N. 46° 31′, W. 41° 54′	30.27	768.8	69.0	20.6	90	sw.			3		5		ne.					foggy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.—Continued.																		
S. S. W. A. Scholten, Hellevoetsluis, Holland*	30.08	764.0	58.1	14.5	94	n.			4		8		ne.	3 h'r	3 h'r			
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, N. 29° 35′, W. 73° 47′	29.99	761.7	84	28.9		wsw.			2		1		sw.	½ h'r	½ h'r	gentle	w.	fair.
STATE LINE.																		
S. S. State of Florida, New York, N. Y.	29.60	751.8	75	23.9		w.			2		3			light	light			clear.
S. S. State of Georgia, N. 40° 56′ W. 68° 04′†	29.90	759.4	69	20.6		s.			3		5		sw.	0	0	sl't	sw.	rain & fog.
S. S. State of Indiana, N. 53° 35′, W. 31° 41′†	30.44	773.2	58	14.4		nw.			2		10		nw.	0	0	sm'h		hazy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 41° 38′, W. 56° 35′†	30.40	772.1	84.2	29.0	68	s.			2		2		s.	0	0	mod.	s.	clear.
WARREN LINE.																		
S. S. Iowa. N. 47° 13′, W. 35° 59′*†	30.40	772.1	69	20.6		wnw.			1		4			0	0	sm'h		clear.
WHITE STAR LINE.																		
S. S. Adriatic, Off Saltees, Ireland*†	30.40	772.1	61	16.1	97	ne.			2		10			0	0	sm'h		dense fog.
S. S. Britannic, N. 45° 52′, W. 50° 06′†	30.29	769.4	58	14.4	94	sw.			1		fg.			0	0	sm'h		foggy.
S. S. Celtic, New York, N. Y†	29.74	755.4	74	23.3	86	calm			0		0			0	0			fine.
S. S. Republic, N. 48° 27′, W. 31° 50′†	30.38	771.6	60	15.6	76	n.			4		8		nne.	0	0	mod	nne.	d. clouds.
WILSON LINE.																		
S.S. Romano, N. 42° 10′, W. 61° 30′	29.92	760.0	71	21.7		s.			3		2		nw.	0	0	mod	sw.	clear.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa†	29.80	756.9	72	22.2		nw.			1		0			0	0			
MISCELLANEOUS.																		
Bk. Adelaide, N. 37° 54′, W. 57° 46′*†	30.16	766.1	82	27.8		ese.			4		1		ese.	0	0	short	cross	fair.
Schr. Ajax, Off Cape Henlopen, Del†	29.85	758.2				nnw.			3		1		nnw.	0	0	sm'h	ne.	hazy.
Bk. Alpha, N. 59° 09′, W. 1° 06′†	30.17	766.3	58	14.4		wnw.			4		10		wnw.	0	0	sm'h		covered.
Sch. Anna A. Holton, New York, N. Y.†	29.83	757.7	76	24.4		w.			1				w.	1 h'r	1 h'r			fair.
Bk. Anna Thorman, S. 37° 54′, E. 95° 42′*	30.18	766.5	52.3	11.3	100	n.			2		10 n		nnw.	4 h'r	4 h'r	cross	sw.	misty.
S. S. Antonio Lopez, San Juan, Porto Rico, W. I.	30.14	765.5	83.5	28.6	80	s.			2		1			0	0	mod.		clear.
Bk. Argonaut, N. 42° 39′, W. 61° 39′*†	30.04	763.0	67.6	19.8		s.			4		3		s.	0	0	long	sw.	hazy.
Bk. Aureola, N. 5° 54′, W. 40° 17′*†	30.14	765.5	79	26.1		sw.			1		5		sw.	2 h'r	2 h'r	mod.	sw.	fair.
Bk. B. F. Watson, N. 29° 45′, W. 39° 33′†	30.28	769.1	80	26.7		wsw.			2		3		w.	0	0	sm'h		fair.
Bk. Bergenseren. N. 45° 56′, W. 55° 40′†	30.05	763.2				s.			4		fg.		s.	0	0	3	sw.	foggy.
Bk. Bremen, N. 55° 22′. W. 22° 01*†	30.20	767.1				ene.			3		10		sse.	2 h'r	2 h'r	mod.	ssw.	cloudy.
Bk. Cato, Malmö, Sweden*†	30.37	771.4				w.			4									fair.
Bk. Celestina, N. 12° 26′ W. 23° 10′*†	30.04	763.0				n.			1		0			0	0	long	sw.	clear.
Schr. C. R. Flint, New York. N. Y†	29.82	757.4	71	21.7		wsw.			1		0			0	0			clear.
S. Cornelius, N. 49° 22′, W. 11° 06′*†	30.44	773.2	59.0	15.0		ese.			3		2		se.	0	0	sm'h	ese.	clear.
S. Dora, N. 2° 15′ W. 19° 45′†	30.21	767.3	78.8	26.0		sse.			4		3 k		se.	0	0	mod.	sse.	clear.
Schr. Edith R. Seward, N. 39° 10′, W. 76° 24′*†	29.80	756.9	76	24.4		wnw.			1		3		nw.	0	0	sm'h		fair.
S. E. J. Spicer, N. 40° 34′, W. 70° 00′*	29.73	755.1	75	23.9		ssw.			5		7		sw.	4 h'r	4 h'r	mod	se.	fair.
S. Enoch Train, N. 49° 55′, W. 13° 07′*	30.38	771.6				ese.			4		3		se.	0	0	short	sse.	hazy.
Bk. Essex, S. 2° 05′, E. 44° 30′*†	30.04	763.0	80	26.7		s.			3		4		s.	2 h'r	2 h'r	h'vy	se.	squally.
Bk. Franklin, N. 57° 00′, W. 11° 45′*†	30.61	777.5				sw.			2		8			0	0	sm'h		cloudy.
Bk. Freya, Poin Caw, near Baltimore, Md.						wnw.			3		1		w.	3 h'r	3 h'r			clear.
S. Glendon, N 38° 40′, W. 56° 50′†	30.15	765.8	82	27.8		ese.			4		8		se.	0	0	mod.	s.	fair.
Bk. Godfrey, N. 38° 13′, W. 16° 56′	30.14	765.5	69.1	20.6	75	sw.			1		2		nnw.	0	0	sm'h	ne.	fair.
S. Grecian, N. 15° 31′, E. 113° 44′*†	29.72	754.9	84	28.9		wsw.			5		9		w.	0	0	mod.	ssw.	fair.
Bk. Gronsvaer, N. 31° 10′, W. 38° 20′†	30.25	768.3				nw.			1		7		nw.	1 h'r	1 h'r	sm'h		hazy.
Bk Hattie G. McFarland, Boston, Mass*†	29.80	756.9	72	22.2		ssw.			3		fg		sw.	6 h'r	6 h'r			foggy.
Schr. Hattie Weston, N. 17° 40′, W. 67° 10′*†	30.02	762.5	84	28.9		e.			3		5		e.	0	0	mod.	ene.	fair.
Bk. Heinrich & Tonio, N. 42° 12′, W. 34° 05′*†	30.46	773.7	71	21.7		ene.			3		2		ene.	0	0	sm'h		fair.
Schr. Henry Denison, N. 39° 43′ W. 73° 32†						w.			3								s.	fair.
Bk. Horace Scudder, Port of Spain, Trinidad, W. I†	30.15	765.8	76	24.4		calm			0		10		calm	5 h'r	5 h'r			cloudy.
S. Ivy, S. 41° 42′ W. 105° 15′†	30.57	776.5	48	8.9		ssw.			7		2		ssw.	0	0	h'vy	wsw.	squally.
S. Ismir, S. 3° 00′ E. 106° 45′†	29.92	760.0				sw.			3		7		sw.	0	0	sm'h		fine.
Schr. James Slater, N. 32° 56′, W. 73° 09′*†	30.20	767.1	85	29.4		sw.			3		2		wsw.	0	0	mod.	sw.	
Schr. Jennie N. Huddell, Philadelphia, Pa†	29.72	754.9	73	22.8	95	wnw.			2		0			0	0			clear.
Bk. Johanne, N. 42° 06′, W. 66° 23′*†.	29.85	758.2	70	21.1		sw.			6		8		sw.	0	0	sm'h	wsw.	hazy.
Bg. John Wesley, St. Jago, Cuba, W. I†	29.94	760.5				calm			0		0			0	0			clear.
Bk. Joseph A. Ropes, S. 37° 35′, W. 0° 15′*†	30.35	770.4	48	8.9	77	ssw.			6		6		ssw.	6 h'r	6 h'r	long	sw.	fair.
Bkt. Josephine, Havana, Cuba, W. I.†	30.07	763.8	82	27.8	74	nw.			3		10			2 h'r	2 h'r			threatening.
Bkt. Kryolith, N. 39° 08′, W. 74° 03′*†	29.77	756.1				wnw.			3		0					short	sse.	clear.
Light House Tender, Laurel, Key West, Florida†	30.08	764.0	80	30.0		n.			2		3		nnw.	2 h'r	2 h'r			fair.
Bk. Liberia, N. 33° 20′, W. 65° 41′.*.	30.06	763.5	82	27.8	87	sw.			6		5			2 h'r	2 h'r			
Schr. Maggie Abbott, Port au Prince Haytí†	30.05	763.3												0	0			
S. Minnie N. Gerow, N. 43° 17′, W. 23° 58′.†*	30.08	764.0				sw.			3		3		w.			sm'h	nw.	fine.
S. M. P. Grace, S. 42° 15′, W. 85° 05′*	29.53	759.0	47	8.3		nw.			7				sw.	hail	hail	r'gh	w.	gale
Bk. National Eagle, N. 40° 42′, W 36° 55′†	30.20	767.1				nne.			2		1		ne.	0	0	sm'h		fair.
S. S. Nebo, Porman, Spain*†	29.95	760.7				s.			1		0			0	0			clear.
S. Oracle, N. 37° 57′, W. 64° 40′*	30.01	762.2	80	26.7	100	sse.					3 k		sse.			mod	se.	fine.
S. Orealla, N. 19° 57′, W. 36° 44′*	30.09	764.3				ene.			4		4		ene.	0	0	mod.	e.	fine.
S.Paramita, N. 37° 39′, W. 127° 59′†	30.11	764.8	69.5	20.8		var.			2-3		2		wnw.	0	0	long	wnw.	foggy.
Bk. Rosebud, S. 36° 38′, E. 40° 05*†	30.50	774.7	56	13.3	?	s;e.			5		8		e.	0	0	sharp	s.	
S. St. Francis, N. 35° 06′, W. 53° 22†	30.15	765.8	74	23.3		sw.			5		9		sw.	0.25	6.3	long	wsw.	rainy.
Bk. Sunbeam, N. 39° 38′, W. 38° 42′†..	30.35	770.9	76	24.4	81	ene.			5		2		ne.	0	0	mod.	n.	clear.
S. S. Sunbeam, N. 38° 56′ W. 9° 30′	30.07	763.8	66	18.9	90	nw.			2		10		nw.				wnw.	misty.
S. Sovereign of the Sea, S. 41° 55′, W. 56° 32′*†	29.60	751.8	45	7.2	85	nw.			4		2			1 h'r	1 h'r	hv'y	s.	clear.
Bg. Teneriffe, N. 24° 06′, W. 80° 22′	30.09	764.3				calm			0					0	0	sm'h		fine.
Bk. Truro, N. 40° 24′, W. 72° 00′*†	29.72	754.9				ssw.			3		1		ssw.	1 h'r	1 h'r	mod.	se.	clear.
U. S. F. C. S. S. FishHawk, Wood's Holl, Mass†	29.93	760.2	73	22.8	90	sw.			3		3		sw.	0	0			clear.
Schr. Victor Ping, N. 33° 17′, W. 70° 42′*†	30.04	763.0				sw.			2		1		ssw.			mod.	ssw.	fair.
Bk. Vincenzo Accame, N. 38° 28′, W. 42° 06′†.	30.47	774.0	78.8	26.0		ne.			2		0							clear.
Schr. Viola Reppard, N. 33° 30′, W. 77° 22′†	29.89	759.2	86	30.0		wsw.			3		0			0	0	small	s.	
Bg. Wauburn, Azua, San Domingo, W. I*†	30.10	764.5				nnw.			2		2		nne.			mod.	sse.	¼ clouded.
Bk. Warden Law, Sunderland, England*	30.10	764.5				n.			2		3			0	0			fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 10, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.02	762.6	79.9	26.6	65	s.			1		2			0	0	fair	Bouvier.
Algiers			30.01	762.2	78.8	26.0	71	n.			2		0			0	0	clear	Thève.
La Galle			29.96	760.9	84.6	29.2	51	nne.			1		4			0	0	cloudy	Fonfréde.
Tunis			29.94	760.5															Jacques.
Saida			30.04	763.0															Perès.
Tebessa			30.03	762.7	85.3	29.6	25	sw.			1		3			0	0	pretty fair	Rigaud.
Geriville					91.0	32.8	6	nnw.			2		0			0	0	clear	Lonchamp.
Laghouat			30.08	763.9	99.3	37.4	29	e.			1		0			0	0	clear	Abraham.
Biskra			30.05	763.2	99.0	37.2	25	n.			1		2			0	0	fair	Malau.
Australian.																			
Melbourne, Victoria	30.01	762.2	30.10	764.5	41.8	5.4	91	sse.	3	1.3			1			0.01	0.3	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.41	747 0	29.93	760.3	77.2	25.1	48	ne.			2		3			0.047	1.2		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.22	742.2	29.98	761.4	63.0	17.2	91	w.	3.1	1.4			10			0.118	3.0		Dr. Wierzbiski.
Eperies	28.97	735.9	29.82	757.4	69.3	20.7	71	nw.			2		10 ks		se.	0.087	2.2		Julius Mikolik.
Gratz	28 71	729.1	29.91	759.7	72.1	22.3	82	ne.			3		8			0	0		Andreas Rospini.
Hermannstadt	28.39	721.2	29.77	756.2	68.4	20.2	69	w.			1		4			0.024	0.6		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.72	729.5	30.02	762.5	69.3	20.7	76	calm			0		9			0.004	0.1	covered	The Staff.
Lemberg	28 83	732.3	29.78	756.3	68.9	20.5	69	ne.			2		5			0	0		Dr. T. Stanecki.
Pola	29.85	758.1	29.95	760.8	83.5	28.6	47	sw.			2		3			0	0		I. R. Hydrographic Office.
Szathmar	29.31	744.5	29.76	755.9	72.9	22.7	61	n.			3		5			0.051	1.3		Joseph Midlinszky, S. J.
Szegedin	29.55	750.5	29.82	757.3	73.8	23.2	68	nw.			1		2			0	0		Karl Stancel.
Trieste																			Royal Academy.
Vienna	29.31	744.0	30.00	762.0	72.3	22.4	60	nw.			3		8			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	30.09	764.3	30.19	766.8	65.2	18.4	67	sse.	11	4.9			1			0	0	blue sky	W. Boswell
Armagh, Observatory	30.00	763.5	30.28	769.1	72.0	22.2	67	sw.	2	0.9			0					blue sky	S. Call.
Bidston, Liverpool Obs'y			30.27	768.8	70.0	21.1	56	se.	8	3.6			0					blue sky	John Hartnup.
Bolton, Sharples	29.72	754.9	30.25	768.3	69.6	20.9	60	e.					5					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.87	758.7	30.26	768.6	66.6	19.2	58	se.			2		5			0	0	d clouds	J. McLandsborough.
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	84.0	28.9	67	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			30.26	768.6	65.4	18.6	70	n.			0.4		10					overcast	John McLaren.
Chatham, School M. E.	30.15	765.8	30.28	769.1	63.4	17.4	71	e.			1		10					misty	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	30.03	762.7	30.26	768.6	65.4	18.6	75	sse.			1		3					misty	The Staff.
Fort Napier, Natal	27.79	705.9	30.00	762.0	80.2	26.8	47	calm			0		0					blue sky	Corpl. F. Milner, A. H. C.
Free Town, Sierra Leone	29.68	753.9	29.91	759.7	85.0	29.4	58	w.			1		4					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.97	761.2	30.02	762.5	80.0	26.7	78	w.			2		0						Corpl. F. Norris, A. H. C
Glasgow, Observatory	30.04	763.0	30.24	768.1	72.2	22.3	49	wsw.			3		0					misty	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.09	764.3	30.26	768.6	58.9	14.9	81	ene.			1		10					overcast	The Staff.
Guernsey	29.94	760.5	30.24	768.1	64	17.8	78	ne.			1		10					overcast	A. Collenette, F. M. S.
Kew, Observatory	30.24	768.1	30.28	769 1	59.0	15.0	70	ne.	7	3.1			10					threatening.	The Staff.
Leicester, Museum	30.04	763.0	30.29	769.4	62.5	16.9	77	ne.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.02	762.5	79.0	26.1	80	ne.			2		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.15	765.8	30.20	767.1	87.0	30.6	65	sw.			1		4			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.78	756.4	30.30	769.6	60.2	15.7	70	ene.			2		8					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	30.06	763.5	30.29	769.4	59.0	15.0	80	ne.			2		10					overcast	The Staff.
Plymouth	30.18	766.6	30.25	768.3	65.0	18.3	78	e.			2		10					misty	John Merrifield.
Sandwick Manse, Orkneys			30.15	765 8	58.5	14.7	80						4					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.72	754.9	29.78	756.4	79.4	26.3	50	sw.			2		7					d. clouds	W. H. Lyne.
Sheffield	30.01	762.2	30.28	769.1	69.5	20.8	54	ne.			1		1			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.24	768.1	30.27	768.8	70.2	21.2	64	nw.			2		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.29	769.4	68.9	20.5	60	ne.	1	0.4			7					d. clouds	I. New.
Straifield Turgiss					60.0	15.6	78	nw.			1		8					d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.22	767.6	30.23	767.8	73	22.8	81	se.			2		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.22	767.6	30.24	768.1	71.1	21.7	69	nw.	7	3.1			2					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.95	760.7	29.99	761.7	71	21.7	94	sw.	4	1.8			10 s			0.170	4.3	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.87	758.7	29.93	760.2	65	18.3	84	sw.	5	2.2		0	0			0.05	1.3	clear	G. A. Blair.
Father Point, Quebec*	29.94	760.5	29.96	761.0	56	13.3	90	w.	10	4.5		2 k	0	w.		0.05	1.3	clear	J. McWilliams.
Fort Garry, Manitoba*	29.16	740.7	29.96	761.0	62	16.7	87	se.	12	5.4		0	8 ks		se.	0	0	cloudy	James Stewart.
Halifax, N. S*	29.85	758.2	29.97	761.2	67	19.4	100	calm	0	0			fg.			1.364	34.6	foggy	A. Allison.
Kingston, Ontario*	29.58	751.3	29.90	759.4	67	19.4	81	sw.	8	3.6		2 c	5 k		w.	0.03	0.8	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.75	755.6	29.95	760.7	63	17.2	81	ne.	0	2.7		0	2 ks		ne.	0.01	0.3	fair	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.19	741.4	29.87	758.7	58	14.4	93	ne.	11	4.9			10 n		e.	0.20	0.6	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.21	741.9	29.89	759.2	60	15.6	100	calm	0	0			8 n		w.	0.09	2.3	threatening.	H. Morgan.
Port Stanley, Ontario	29.27	743.4	29.90	759.4	56	13.3	86	nw.	4	1.8			8 k		sw.	inap.	inap.	cloudy	M. Payne.
Quebec, Quebec*	29.64	752.8	29.95	760.7	60	15.6	84	calm			0		10 ks			0.02	0.5	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.48	748 8	29.93	760.2	55	12.8	83	n.	10	4.5			8 ks		ne.	inap.	inap.	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.14	740.1	29.84	757.9	58	14.4	86	s.	4	1.8			10 ks			0.12	3.0	cloudy	
St. Andrews, N. B	29.89	759.2	29.94	760.5	61	16.1	94	calm	0	0			fg			0.06	1.5	foggy	
Sydney, C. B*	29.94	760.5	30.00	762.0	71	21.7	94	sw.	16	7.2			10 n			0.03	0.8	light rain	T. C. Hill, C. E
Toronto, Ontario*	29.53	750.0	29.90	759.4	63	17.2	81	w.	4	1.8		2 ck	2 ks	w.		inap.	inap.	fair	Magnetic Observatory.
Yarmouth, N. S*	29.86	748.4	29.93	760.2	62	16.7	100	calm	0	0			fg			0	0	foggy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.49	723.6	29.94	760.5	56.0	13.3	94	wsw.			1	10 nk	0	wsw.		0.122	3.1	cloudy	Wm. Wylie.
St. Johns, Newfoundland	30.01	762.2	30.25	768 3	76?	24.4?	82	sw.	2	0.9		5 k	5 s			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.16	766.1	30.18	766.6	65.6	18.7	85	w.	12.8	5.7		0	2 k			0	0	clear	C. Hansen.
Cape Town, C. G. H. Obs'y	30.21	767.3	30.24	768.1	62.8	17.1	67	s.	18	8.0		8	10			0.140	3.6		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.88	759.0	29.91	759.6	75.9	24.4	93	ene.	0.0	2.7						0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.95	760.8	30.00	762.0	70.3	21.3	73	nw.	11	5			6						Oversergent Fischer.
Fanöe	30.07	763.8	30.09	764.3	63.5	17.5	75	nnw.			6		5						Overloerer Lauridsen
Godthaab, Greenland	29.76	756.0	29.81	757.1	40.3	4.6	89	w.			2		10			0.059	1.5		S. Kleinschmidt.
Ivigtut	29.72	754.9	29.74	755.4	41.9	5.5		calm			0		10					foggy	
Stykkisholm, Iceland	29.30	744.2	29.34	745.3	44.2	6.8	96	sw.			7		10					raining	A. O. Thorlacius.
Thorshavn	29.72	754.9	29.76	755.8	55.9	13.3	89	sw.	27	12			10					rain & fog	Overloerer Bergh.
Vestervig	29.95	760.7	30.04	763.0	62.1	16.7	80	nw.			6		3						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.44	747.8	30.06	763.6	76.6	24.8	45	wnw.			1	2 c	2 s			0	0		M. Labroue, Director.
Alençon, Normal School	29.65	753.2	30.21	767.2	65.5	18.6	72	n.			1		k	n.	n.	0	0		M. Nicot, Director.
Arras, Engineer School	29.99	761.7	30.24	768.2	62.4	16.9	81	ne.			1		10			0	0	covered	M. Fénéon, Command't.
Avignon, Normal School	29.90	759.4	29.98	761.4	82.4	28	44	n.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.56	750.8	30.07	763.7	72.5	22.5	54	ne.			1		7			0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.96	760.9	30.22	767.6	63.9	17.7	71	n.			2		10		ene.	0	0	covered	M. Frère Eugène Marie
Besançon, Normal School	29.11	739.3	29.98	761.4	64.8	18.2	65	ne.			4		2		ne.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.80	757.0	30.06	763.5	75.2	24.0	35	nw.			1		0			0	0	hazy	M. Rayet, Director.
Bourges, Normal School	29.56	750.9	30.10	764.6	73.4	23	44	ne.							ne.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.98	761.5	30.22	767.7	69.8	21.0	62	ene.			2		4		ene.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.08	764.1	30.16	766.0	59.7	15.4	75	ne.			1		8		ne.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.80	756.8	30.11	764.7	74.1	23.4	69	ene.			1		2	ene.	ne.	0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.73	755.2	30.21	768.0	67.3	19.6	70	ne.			1		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.74	729.9	30.05	763.3	70.9	21.6	61	ne.			1	0	2 k			0	0	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.28	743.7	30.10	764.5	73.8	23.2	52	ne.			2		2		n.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.21	716.6	30.08	763.9	71.6	22	69	ne.			1		kn	ne.	ne.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.42	696.4	29.82	757.5	79.2	26.2	28	n.			2		4		n.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.89	733.7	29.95	760.7	81.7	27.6	29	nw.			1		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.11	739.4	29.85	758.1	72.7	22.6	66	ne.			1		kn		ne.	0	0		M. Ablard, Director.
Lamballe, Normal School					65.8	18.8	64	e.			2		fg		e.	0	0	light fog	M. Ollitrault, Director.
Lescar, Normal School	29.47	748.5	30.01	762.3	77.4	25.2	40	w.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.10	764.4	30.20	767.0	71.6	22.0	50	ne.			1		8	e.	se.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.02	737.2	30.05	763.2	74.3	23.5	49	ne.			1		kn		n.	0	0	fair	M. André, Director.
Mans, Normal School	29.87	758.6	30.17	766.2	71.1	21.7	43	e.			1		10		e.	0	0	covered	M. Piboen, Director.
Marseille, Observatory	29.70	754.4	29.97	761.1	82.2	27.9	37	w.			2		1			0	0		M. Stephan, Director.
Montlouis	24.99	634.7	29.83	757.7	66.2	19	56	se.	11.2	5.0					ne.	0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.85	758.1	29.97	761.1	84.9	29.4	65	ssw.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.30	744.3	30.07	763.7	70.5	21.4	62	nw.			1	5 c	0	nw.		0	0	cloudy	M. Hasse, Director
Nantes, Observatory	30.04	763.0	30.20	767.1	66.6	19.2	65	ne.			1–2		10 ku		ene.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.89	759.1	29.99	761.7	90.0	32.2	24	se.	1.8	0.8			1			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.43	544.4			56.8	13.8		w.			1		1	w.		0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.99	736.3	30.05	763.2	71.6	22.	43	n.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.28	642.2			52.2	11.2	84	e.			2		2			0.008	0.2	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.09	764.2	30.14	765.6	77.0	25.0	100	ene.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.91	759.7	30.12	765.0	71.2	21.8	50	e.			3		5		w.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.95	710.0	30.00	762.0	76.1	24.5	42	sw.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.17	766.2	30.21	767.4	65.5	18.6	69	ne.			2		5		e.	0	0	cloudy	M. Brotier.
Saint Maur, Observatory	30.02	762.4	30.18	766.6	66.0	18.9	70	nne.			2		0		ne.	0	0		M. Renou, Director.
Toulouse, Observatory	29.39	746.6	30.12	765.0	80.6	27.0	34	nnw.			1		0			0	0	clear	M. Bailland, Director.
Tours	29.95	760.7	30.13	765.2	73.4	23.0	52	ne.			1		5		e.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.71	754.5	30.20	767.0	65.1	18.4	71	ne.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.90	759.5	30.19	766.9	64.6	18.1	75	nne.			2		9		ne.	0	0		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.67	728.3	30.08	764.1	68.0	20.0	68	ne.			2		5	ne		0	0		Prof. Juedt.
Bamberg	29.24	742.8	30.10	764.5	72.3	22.4	66	ne.			1	0	3 k		ene.	0	0		Prof. Dr. Hoh.
Berlin	29.92	759.9	30.09	764.3	65.3	18.5	85	w.			2		10			0.146	3.7		Prof. Dr. Arndt.
Breslau	29.54	750.2	30.07	763.7	69.6	20.9	71	wnw.			3		5			0	0		Royal University Obs'y.
Carlsruhe	29.66	753.3	30.08	764.1	74.1	23.4	52	n.			1		9	ne.		0	0		Albert Senz.
Cassel	29.40	746.8	30.11	764.9	63.0	17.2	74	nw.			4		6	n.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.76	755.9	30.12	765.0	72.0	22.2	68	n.			1		10			0	0		Physical Society.
Friedrichshafen	28.63	727.3	30.02	762.4	71.6	22.0	60	ne.			4		5	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.04	763.0	30.13	765.4	62.6	17.0	71	w.			3		9			0	0		E. Preller.
Kiel	30.06	763.5	30.08	763.9	67.6	19.8	62	nw.			5		3			0	0		Prof. Dr. G. Karsten
Leipsic, Astron'l Obs'y	29.72	754.9	30.13	765.4	63.9	17.7	85	nw.			2		10	nw.		0.346	8.8		H. Leppig, Asst.
Magdeburg	29.94	760.5	30.13	765.3	63.0	17.2	84	w.			2		10 ks		w.	0	c		Dr. Assmann.
Memel	29.99	759.4	29.95	760.6	66.9	19.4	78	nnw.			4	0	0						Issermann.
Munich	28.28	718.4	30.15	765.9	71.4	21.9	47	ne.			2		5	ne.		0	0		Dr. C. Lang.
Neufahrwasser	29.96	761.0	29.98	761.4	68.0	20.0	78	n.			1		3			0	0		A. Lothes.
Neustadt, Palatinate	29.53	750.1	30.06	763.5	73.6	23.1	73	ne.			2		2	n.		0	0		Dicknether.
Stuttgart	29.14	740.2	30.00	762.1	71.6	22.0	64	ne.			3		8	w.		0	0		Prof. Dr. Schoder.
Wustrow	30.08	764.0	30.11	764.7	62.8	17.1	82	wnw.			4		10 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.49	749.0	29.86	758.4	82.2	27.9		sw.			1.5		4			0.071	1.8		Schmidt & Wourlisch
INDIAN.																			
Kurrachee	29.61	752.0	29.66	753.3	84.9	29.4	68	wsw.	24.9	10.7			3			0	0	d. clouds	
Deesa	29.14	740.2	29.51	749.5	88.5	31.4	51	ssw.	14.0	6.3			2		sw.	0	0	d. clouds	
Bombay	29.65	753.1	29.69	754.1	83.5	28.6	78	w.	8.0	3.6			4	w.	wnw.	0.10	2.5	d. clouds	
Poona, Yarrowda	27.82	706.6	29.66	753.2	81.2	27.3	60	wnw.	20.0	8.9			7	w.	w.	0	0	d. clouds	
Trichinopoly	29.44	747.7	29.72	754.8	83.1	28.4	67	nw.	2.0	0.9			10			0	0	overcast	
Bellary	28.19	715.9	29.03	752.5	86.4	30.2	48	nw.	9.3	4.2			10			0	0	gloomy	
Belgaum	27.18	690.3	29.71	754.6	74.2	23.4	86	w.	10.0	4.5			7	se.	sw.	0	0	d. clouds	
Lahore	28.76	730.5	29.48	748.7	90.9	32.7	62	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.57	725.7	29.44	747.7	93.4	34.1	53	w.	1.9	0.8			3			0	0		
Agra	28.97	735.9	29.52	749.8	92.2	33.4	58	w.	6.0	2.7			3		w.	0	0	d. clouds	
Nagpur	28.55	725.2	29.57	751.1	87.3	30.7	55	nw.	4.0	1.8			9		nw.	0	0	d. clouds	
Jubbulpore	28.26	717.7	29.58	751.4	86.0	30.0	60	n.	2.4	1.1			7			0	0	d. clouds	
Lucknow	29.16	740.6	29.52	749.8	90.8	32.7	67	calm	2.0	0.9			10	se.		0	0	overcast	
Allahabad	29.22	742.2	29.52	749.9	89.7	32.1	68	calm	0	0			10			0	0	overcast	
Patna	29.38	746.3	29.57	751.0	80.0	26.7	93	ssw.	2.4	1.1			10	ssw.	ssw.	3.00	77.7	overcast	
Hazaribagh	27.58	700.6	29.57	751.0	79.6	26.4	81	calm	4.7	2.1			10			0	0		
Cuttack	29.51	749.6	29.59	751.7	80.8	27.1	82	s.	8.0	3.6			7			0	0	d. clouds	
Calcutta, Alipore	29.57	751.0	29.59	751.6	84.3	29.1	75	nnw.	4.0	1.8			9		se.	0.15	3.8	d. clouds	
Dhubri	29.51	749.6	29.63	752.6	79.7	26.5	93	calm	0	0			10			0.30	9.1	overcast	
Chittagong	29.60	751.9	29.69	754.2	79.3	26.3	90	e.	6.7	3.0			9			0	0	d. clouds	
Sibsagar	29.32	744.6	29.65	753.2	79.9	26.6	87	sw.	4.0	1.8			10	w.	w.	0.63	16.0	d. clouds	
Jeypore	28.16	715.2	29.50	750.7	91.2	32.9	45	w.	6.0	2.7			8	w.		0	0	d. clouds	
Zanzibar, Africa	29.99	761.7			82.8	28.2	51	sse.	7.9	3.5			0			0	0	blue sky	
ITALIAN.																			
Udine	29.58	751.3	29.97	761.3	80.6	27.0	37	sw.	0.7	0.3			3			0	0		Prof. Giovanni Cloelig.
Milan	29.46	748.3	29.95	760.8	82.6	28.1	31	se.	4.9	2.2			5			0	0		Prof. Schiaparelli.
Padua	29.86	758.4	29.97	761.1	81.1	27.3	36	ese.	4.9	2.2			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.06	738.1	29.93	760.1	73.8	26.0	50	s.	1.8	0.8			3	sse.		0.532	13.5		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Genoa	29.80	756.8	29.98	761.5	77.9	25.5	63	sw.	3.8	1.7			4	ne.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.10	713.6	29.92	760.0	77.4	25.2	45	e.			2		2			0	0		Prof. D. C. Bruno.
Pesaro	29.91	759.7	29.96	760.9	77.7	25.4	55	ene.	13.7	6.1			3			0	0		Prof. Luigi Guidi.
Florence	29.71	754.6	29.95	760.8	83.1	28.4	21	nw.			2		3			0	0		Prof. Costantino Pitter
Leghorn	29.84	757.9	29.92	760.0	80.2	26.8	56	w.	2.5	1.1			3			0	0		Prof. P. Monte.
Rome	29.78	756.3	29.94	760.5	86.0	30.0	38	wsw.	11.9	5.3			8			0	0		Prof. P. Tachini.
Lecce	29.70	754.4	29.94	760.5	77.4	25.2	56	ese.	13.7	6.1			3	n.		0	0		Prof. C. de Giorgi
Cosenza	29.08	738.6	29.93	760.2	81.3	27.4	73	ssw.	3.8	1.7			6	sw.		0	0		Prof. D. Conti.
Cagliari	29.74	755.5	29.93	760.2	82.8	28.2	43	s.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.76	755.8	30.00	761.9	80.4	26.9	55	ne.	7.4	3.3			1			0	0		Prof. G. Giacciatore.
Syracuse																			Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.43	747.5	29.93	760.2	82.8	28.2	55	wsw.	8.1	3.6			3	w.		0.039	1.0		Prof. T. Brioschi.
Stelvio	22.34	567.5			49.8	9.9	58	sw.			2		6			0.398	10.1	misty	Prof. P. F. Denza.
Valdobbia	22.35	567.7			48.4	9.1	78	e.			2		10			0.110	2.8	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.90	759.4	29.93	760.2	66.4	19.1	81	calm	0	0		0	0			0	0	clear	K. Ogawa.
Hakodate	29.92	759.9	29.93	760.2	62.0	16.7	94	ese.	1.8	0.8			0			0	0	clear	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.68	753.9	29.85	758.2	73.5	23.1	77	nw.	1.0	0.4		0	1 s			0	0	clear	M. Fojima.
Nagasaki, I. M. Obs'y	29.67	753.7	29.87	758.6	76.3	24.6	82	ne.	5.7	2.6		0	0			0	0	clear	
Nemuro	29.92	759.9	29.99	761.7	60.0	15.6	100	nne.	12.0	5.4		10	0			0.480	12.2	cloudy	
Niigata	29.81	757.2	29.85	758.2	76.3	24.6	82	n.	0.5	0.2		0	2 ck s			0	0	clear	M. Morita.
Nobiru	29.88	758.9	29.89	759.3	67.1	19.5	79	ene.	3.4	1.5		0	2 s			1.165	29.1	fair	H. Midzushina.
Osaka	29.81	757.2	29.82	757.4	74.0	23.3	79	n.	3.1	1.4		0	2 s;ck			0.000	0.1	clear	
Sapporo					61.0	16.1	84	sw.	0.6	0.3			0			0	0	clear	
Tokei Obs'y, Yeddo	29.81	757.2	29.88	759.0	68.2	20.1	98	nne.	3.3	1.5			10 n			1.003	25.5	light rain	The Staff.
Wakayama	29.80	756.9	29.85	758.2	77.1	25.1	66	nne.	4.6	2.1		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.70	754.4	29.89	759.2	70.5	21.4	73	wsw.	10.5	4.7		6cs;ck	2 ks;k	nw.		0.30	7.6	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72?	603.0?	29.96	761.0	58.8	14.9	87	calm	0	0		2 c	0			0	0	clear	Prof. Vicente Fernandez.
Leon.†	24.42	620.3	30.20	767.1	57.9	14.4	90	nw.			1	6 c	0	sw.		0.074	1.9	½ cloudy	Prof. M. Leal.
Mazatlan	29.72	754.5	29.98	761.4	80.0	26.7	82	nw.	11.0	4.9		2 cs	1 ks			0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.5	30.20	767.0	55.9	13.3	82	calm			0	3 ck	4 ks			0.008	0.2	cloudy	The Staff.
Morelia	24.19	614.3	30.22	767.5	58.8	14.9	46	ne.			2	1	0	s.		0.134	3.4	clear	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.02	610.0	30.00	762.1	59.0	15.0	84	calm			0	0	6 ks		sw.	0	0	½ cloudy	M. V. de Leon, M. E
Puebla, Catholic Institute	23.46?	595.5?	30.16	766.0	56.8	13.8	97	calm			0	0	8		s.	0.894?	22.5?	cloudy	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	22.54	572.5	30.07	763.5	58.7	15.0	90	nne.	3.6	1.6		1 c	7 s			0	0	cloudy	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.25	768.4	30.25	768.4	63.3	17.4		ne.			3					0.064	0.1		
Groningen	30.15	765.7	30.20	767.1	61.2	16.2		n.			1					0.028	0.7		
Helder	30.23	767.8	30.23	767.8	61.2	16.2		nne.			2					0	0		
Hellevoetsluis	30.23	767.9	30.23	767.9	62.1	16.7	75	ene.			1					0.008	0.2		
Utrecht	30.11	764.9	30.24	768.1	62.4	16.9	70	n.			2		8			0.028	0.7	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	30.04	763.1	30.11	764.7	56.8	13.8	78	w.	11	5			10			0.122	3.1		
Brono	29.80	757.0	29.84	758.0	55.8	13.2	87	sw.	18	8			10			0.094	2.4		
Christiania	29.78	756.3	29.91	759.8	73.9	23.3	58	sw.	7	3			2			0	0		
Glæsvær	29.53	750.1	29.56	750.7	52.7	11.5		wsw.			7		6						
Lodingen	29.68	753.8	29.72	755.0	53.2	11.8	68	wsw.			7		3			1.472	37.4		
PORTUGUESE.																			
Angra, Azores					69.8	21.0	75	nne.	5.6	2.5			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.01	736.9	29.95	760.7	89.1	31.7	30	sse.	3.8	1.7			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.00	762.1	30.09	764.3	72.1	22.3	56	sw.	9.8	4.4			1			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.70	754.4	30.05	763.3	71.1	21.7	63	sw.	11.2	5.0			2			0	0		The Staff.
Ponta Delgada, Azores	30.02	762.6	30.10	764.4	77.0	25.0	63	nw.	6.9	3.1			5			0	0		
Saint Paul de Loando	29.88	758.9	30.08	764.1	71.9	21.9	72	n.			1		2	sse.		0	0		
Serra da Estrella	25.39	644.9	29.90	759.4	72.1	22.3	40	se.	23.0	10.3			1			0	0		
RUSSIAN.																			
Akmolinski	28.36	720.4	29.35	745.5	85.3	29.6	28	sw.	22	10		2 ck	0			0.024	0.6		Major K. Lasarew.
Archangel	29.74	755.5	29.76	756.0	62.8	17.1	53	nnw.	4	2		2 cs	0			0	0		Capt. Sseliwerstow.
Astrakhan	29.74	755.4	29.66	753.3	84.2	29.0	34	se.	11	5		cs	3 s			0	0		Capt. Wisganow.
Barnaul	29.02	737.0	29.47	748.5	88.0	31.1	39	sse.	4	2			8			0.008	0.2		Meteorological Obs'y.
Dorpat	29.60	751.8	29.83	757.6	70.6	24.8	58	nnw.	4	2		0	4 k			0	0		Observatory.
Ekaterinburg	28.58	725.8	29.50	749.2	64.0	17.8	83	nnw.	13	6			10 n			0.134	3.4	heavy clouds	Meteorological Obs'y.
Irkutsk																			
Kasan	29.39	746.5	29.64	752.9	77.9	25.5	45	nne.	2	1		0	8 k			0	0		Observatory.
Kertch	29.59	751.6	29.61	752.1	69.6	20.9	84	nw.	4	2			0 n			0.610	15.5		Lagorio & Sastyrez.
Kieff	29.11	739.5	29.72	754.9	71.1	21.7	52	nnw.	2	1		ck	7 ks						Observatory.
Lugan	29.40	748.3	29.66	753.4	65.1	18.4	81	ssw.	2	1			10			0.728	18.5		Meteorological Obs'y.
Moscow	29.21	741.9	29.65	753.0	80.8	27.1	51	calm	0	0		0	6 ks						Meteorological Obs'y.
Nikolaiev	29.60	751.7	29.67	753.5	69.8	21.0	78	nne.	4	2			10 n			1.120	28.6		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.77	756.1	29.91	759.7	68.9	20.5	96	calm	0	0			10 n			0.441	11.2	raining	Physical Observatory.
St. Petersburg	29.78	756.5	29.80	756.9	73.6	23.1	61	nw.	7	3		0	4 kn			0	0		Central Physical Obs'y.
Semipalatinsk	28.89	733.8	29.48	748.7	98.6	37.0	20	e.	4	2			5			0	0		Major Lasarew
Tashkend, Laboratory	28.03	712.0	29.47	748.4	93.6	34.2	40	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.20	717.7	29.58	751.4	81.5	27.5	52	nw.	13	6		0	3 k			0	0		Physical Observatory.
Vladivostock	29.87	758.8	29.95	760.5	69.1	20.6	93	w.	4	2		0	0						
Warsaw	29.46	748.2	29.86	758.4	74.7	23.7	65	nw.	13	6		0	5 k						Astronomical Obs'y.
Wilna	29.39	746.6	29.79	756.6	78.1	25.6	57	nw.	4	2			2			0	0		Berg, Assistant.
Yenlseisk	29.47	748.4	29.74	755.3	72.3	22.4	74	sw	7	3			4			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt.			30.15	765.8	59	15.0	94	sw.			4		10			0.1	3.	hazy	J. Youngclanse.
North Unst			29.96	761.0				w.			6		10			0	0		Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.90	759.4	30.00	762.0	79.7	26.5	55	se.	1.8	0.8		0	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.01	762.2	30.07	763.7	83.1	28.4	49	nw.	2.9	1.3		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.12	688.9	29.93	760.1	81.1	27.3	32	ne.	6.3	2.8		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.81	706.4	29.89	759.3	89.1	31.7	30	w.	4.9	2.2		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.86	758.5	30.01	762.3	88.7	31.5	63	se.	3.8	1.7		0	3			0	0	almost clear	Olayo Diaz, Director
Oviedo	29.26	743.2	30.13	765.2	66.2	19.0	82	nw.	3.0	1.3		0	6 n			0	0	fair	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.11	739.3	29.99	761.7	64.8	18.2	88	calm	0	0			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.07	763.7	30.13	765.4	77.7	25.4	84	se.	3.6	1.6		7 c;cs	8	nne.		0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.75	755.6	29.81	757.1	74.3	23.5	96	n.	0.7	0.3			10 n		wsw.	2.591	65.8	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.90	761.1	30.06	763.5	75.6	24.2	66	w.	5.4	2.4		0	5		sw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.06	763.4	30.15	765.7	82.4	28.0	85	se.	6.7	3.0		7 ks	4 k	e.	se.	0	0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.58	751.3	29.71	754.6	80.0	26.7	90	nw.	4.3	1.9		1 cs	9 ks		w.	0.02	0.5	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.69	754.2	29.73	755.2	66.2	19.0	88	sw.			4		8			0	0		
Umea	29.78	756.3	29.83	757.6	70.5	21.4	54	nw.			2		4			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Hernosand	29.85	758.1	29.90	759.4	69.4	20.8	50	wnw.			2		6			0.024	0.6		
Stockholm	29.71	754.7	29.89	759.2	76.3	24.6	42	sw.			2		2			0	0		
Wisby	29.83	757.6	29.89	759.1	66.9	19.4	83	wnw.			2		0			0	0		
Sub-series.																			
Upsala	29.78	756.5	29.87	758.7	74.5	23.6	61	nnw.	7.4	3.3			7	wnw.	sw.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.67	728.1	30.05	763.3	68.7	20.4	62	nnw.			4		0			0	0	clear	The Observatory
Turkish.																			
Constantinople			29.84	757.8	77.2	25.1	50	sw.	10	4.5			9		sw.	0	0		The Observatory.
Valona			30.06	763.5	79.2	26.2		w.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.80	757.0	89.1	31.7	47	w.			2	0	7 k		sw.	0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.86	758.4	29.94	760.5	73	22.8	64	ne.	2	0.9		7 ck	0	nw.		0	0	fair	J. O. Barnes.
Alpena, Michigan	29.29	744.0	29.93	760.2	55	12.8	86	nw.	10	4.5			10 s		n.	0.44	11.2	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.16	639.1	29.88	758.9	59	15.0	58	e.	6	2.7		0	0			0.06	1.5	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.31	693.7	30.05	763.5	62	16.7	42	s.	1	0.4		1 c	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.91	734.3	30.06	763.5	66.0	18.9	90	n.	3	1.3			10 s			0.22	5.6	cloudy	H. Hall.
Atlantic City, New Jersey	29.93	760.2	29.94	760.5	74	23.3	79	n.	2	0.9		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.88	758.9	30.07	763.8	77	25.0	76	calm	0	0		10 k	0	sw.		0	0	cloudy	John Healy.
Baltimore, Maryland	29.95	760.7	30.00	762.0	69	20.6	61	n.	5	2.2		6 k	0	sw.		0	0	fair	Robert Seyboth.
Barnegat, New Jersey	29.92	760.0	29.94	760.5	72.5	22.5	80	n.	4	1.8		2 k	0			0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.58	725.9	30.12	765.0	55	12.8	86	calm	0	0		4 c	2 s			0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.32	693.9	30.11	764.8	65	18.3	70	calm	0	0		0	0			0	0	clear	S. Wheaton.
Behring Island, Behring Sea	29.86	758.4	29.88	758.9	51.0	10.6		nw.	1	0.4		0	1 s			0	0	clear	Dr. L. Steineger.
Bismarck, Dakota	28.32	719.3	30.06	763.5	57	13.9	86	n.	4	1.8		0	hz.			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.90	759.4	29.93	760.2	73	22.8	90	calm	0	0		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.13	689.1	29.88	758.9	79	26.1	52	sw.	1	0.4		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.80	756.9	29.95	760.7	70.0	21.1	73	nw.	6	2.7		0	hz.			inap.	inap.	clear	O. B. Cole.
Brownsville, Texas	29.99	761.7	30.03	762.7	77.3	25.2	90	se.	4	1.8		4 c	0			0	0	fair	M. McCarty.
Buffalo, New York	29.18	741.2	29.91	759.7	61.6	16.4	72	s.	11	4.9		0	3 ks;hz		s.	inap.	inap.	clear	Clarence Weaver.
Buford, Fort, Dakota	28.18	715.8	30.12	765.0	57	13.9	69	ne.	1	0.4		0	sk.		calm	0	0	clear	A. H. Bell.
Burlington, Vermont	29.66	753.4	29.96	761.0	63.5	17.5	92	e.	3	1.3		7 ck	2 s	w.	e.	0.03	0.8	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.78	756.4	30.17	766.3	62.6	17.0	69	ne.	6	2.7		1 c	0	w.		0	0	clear	W. H. Ray.
Campo, California	27.45	697.2	29.95	760.7	62.2	16.8	78	s.	1	0.4		0	0			0	0	clear	W. H. Glendenon
Cape Henry, Virginia	29.94	760.5	29.96	761.0	78	25.6	82	n.	4	1.8		0	hz.			0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.94	760.5	29.97	761.2	73.0	22.8	71	nw.	4	1.8		6 ck	0	n.		0	0	fair	W. E. Smith.
Cape Mendocino	29.56	750.8						n.	19	8.5			10 ks		n.	0	0	cloudy	J. R. Williams.
Cedar Keys, Florida	30.07	763.8	30.09	764.3	83	28.3	67	w.	4	1.8		6 c	1 ks		w.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.30	744.2	30.10	764.5	53.0	11.7	72	nw.	10	4.5		0	0			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	29.95	760.7	30.00	762.0	81	27.2	74	nw.	6	2.7		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.18	741.2	30.01	762.2	73.0	22.8	64	n.	3	1.3		10 cs	0	w.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.26	743.2	30.07	763.8	65.5	18.6	86	nw.	2	0.9		1 cs	8 s		w.	0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.31	617.5	30.01	762.2	46.1	7.8	58	w.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.38	746.2	30.06	763.5	53.3	11.8	79	nw.	4	1.8		0	0			0.10	2.5	clear	J. Mitchell.
Chincoteague, Virginia	29.94	760.5	29.96	761.0	72	22.2	84	n.	10	4.5		8 k	0	w.		0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.43	747.5	30.07	763.8	60.8	16.0	70	nw.	7	3.1		0	0			0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.23	742.4	29.95	760.7	55	12.8	81	sw.	9	4.0		2 k	0	w.		inap.	inap.	clear	J. B. Newlin.
Coleman City, Texas	28.33	719.6	30.07	763.8	66	18.9	93	ne.	1	0.4		0	6 s		ne.	0.38	9.7	fair	L. Dorman.
Columbus, Ohio	29.17	740.9	30.00	762.0	55	12.8	80	w.	11	4.9		0	0			0.11	2.8	clear	D. Cuthbertson.
Concho, Texas	28.22	716.8	30.08	764.0	68	20.0	84	ne.	2	0.9		0	8 s		nw.	0	0	cloudy	W. W. McConihe.
Custer, Fort, Montana	27.00	685.8	30.06	763.5	54	12.2	64	ne.	4	1.8		4 k	0	calm		0	0	fair	W. B. Lamar.
Davenport, Iowa	29.51	749.5	30.14	765.5	54	12.2	80	nw.	3	1.3		0	0			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.31	642.9	29.96	761.0	61	16.1	72	calm	0	0		0	0			0.20	5.1	clear	J. Williams.
Dayton, Washington T'y	28.24	717.3	29.95	760.7	66.8	19.3	68	calm	0	0		3 c	0	sw.		0	0	clear	H. Clifford.
Deadwood, Dakota	25.62	650.7	30.05	763.3	50	10.0	74	sw.	4	1.8		1 c	0	n.		0	0	clear	G. W. Scott.
Decatur, Texas					68	20.0	55	se.	5	2.2		0	2 ks		w.	0.31	7.9	clear	D. J. Carr.
Delaware Breakwater, Del.	29.93	760.2	29.95	760.7	70	21.1	90	w.	7	3.1		3 ck	0	w.		0	0	clear	T. S. Townsend.
Denison, Texas	29.34	745.2	30.12	765.0	63.0	17.2	84	n.	4	1.8		0	0			0.49	12.4	clear	J. McGlone.
Denver, Colorado	24.98	634.5	30.00	762.0	62.5	16.9	57	s.	1	0.4		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.32	744.7	30.20	767.1	53	11.7	93	calm	0	0		3 c	fg.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.23	742.4	29.92	760.0	55.0	12.8	93	sw.	5	2.2			10 s		sw.	inap.	inap.	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.64	702.0	30.12	765.0	57	13.9	69	s.	2	0.9		0	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.46	748.3	30.15	765.8	52	11.1	74	calm	0	0		0	fg.			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.39	746.5	30.11	764.8	57	13.9	74	w.	8	3.6		0	0			inap.	inap.	clear	N. B. Conger.
Eagle Pass, Texas	29.29	744.0	30.08	764.0	72.1	22.3	84	nw.	3	1.3			10 s		nw.	inap.	inap.	cloudy	F. Belford.
Eagle Rock, Idaho	25.42	645.7	29.97	761.2	62	16.7	60	n.	1	0.4		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.87	758.7	29.94	760.5	56.0	13.3	93	n.	4	1.8			fg.		n.	0.60	15.2	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.42	696.5	30.06	763.5	54	12.2	74	calm	0	0		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.40	670.5	30.00	762.0	64	17.8	93	nw.	1	0.4		0	0			0.10	2.5	clear	J. F. Marshall
Erie, Pennsylvania	29.21	741.9	29.92	760.0	61	16.1	78	s.	4	1.8		8 k	0	sw.		0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.43	747.5	30.07	763.8	52	11.1	80	n.	8	3.6		0	0			0	0	clear	George Heathcote.
Fredericksburg, Texas	28.32	719.3	30.03	762.7	70	21.1	97	e.	3	1.3			10 n			0.32	8.1	light rain	Frank Halwegler.
Galveston, Texas	30.03	762.7	30.08	764.0	75	23.9	88	ne.	8	3.6		8 cs	2 k	se.		0.53	13.5	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.36	745.7	30.00	762.0	55.0	12.8	83	nw.	8	3.6			10 s		nw.	0.23	5.8	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.36	644.1	29.94	760.5	73.4	23.0	57	w.	5	2.2		0	4 s			0	0	fair	Robert O. Lord.
Hatteras, North Carolina	29.96	761.0	29.98	761.5	80	26.7	88	sw.	10	4.5		hz.	c			0	0	clear	R. M. Crawford.
Helena, Montana	25.97	659.6	30.06	763.5	72	22.2	51	sw.	4	1.8		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.20	741.7	30.20	767.1	65.0	18.3	84	n.	5	2.2		0	0			0.14	3.6	clear	J. W. Byram.
Huron, Dakota	28.79	731.3	30.13	765.3	49.2	9.6	83	e	5	2.2		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.29	744.0	30.06	763.5	58	14.4	69	nw.	5	2.2		0	0			inap.	inap.	clear	O. Schutze
Indianola, Texas	30.04	763.0	30.07	763.8	73.8	23.2	90	ne.	14	6.3		7 ck	2 s	sw.	sw.	1.35	34.3	cloudy	I. A. Reed.
Jacksboro, Texas	28.98	736.1	30.10	764.5	63	17.2	84	calm	0	0		0	0			inap.	inap.	clear	J. P. Sherry.
Jacksonville, Florida	30.03	762.7	30.07	763.8	83	28.3	80	sw.	4	1.8		3 cs	0	sw.		0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.65	702.3	30.08	764.0	55	12.8	52	ne.	2	0.9		2 c	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.49	749.0	30.12	765.0	59.5	15.3	71	n.	2	0.9		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.08	764.0	30.10	764.5	81.0	27.2	79	s.	3	1.3		0	0			0.48	12.2	clear	R. H. Paxton.
Kittyhawk, North Carolina	29.97	761.2	29.99	761.7	79	26.1	82	se.	3	1.3		hz.	0			0.28	7.1	dense haze	E. A. Beals.
Knoxville, Tennessee	29.07	738.4	30.08	764.0	63.2	17.3	90	calm	0	0		7 c	fg.	w.		0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.40	746.7	30.15	765.8	53	11.7	72	nw.	1	0.4		0	0			0	0	clear	S. C. Emery
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.33	745.0	30.19	766.8	58	14.4	74	calm	0	0		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.08	738.6	29.89	759.2	81.5	27.5	53	e.	1	0.4		0	4 s			0	0	fair	W. Bell.
Little Rock, Arkansas	29.80	756.9	30.11	764.8	66	18.9	84	n.	2	0.9		3 cs	0			0.03	0.8	clear	W. U. Simons.
Los Angeles, California	29.58	751.3	29.97	761.2	65.1	18.4	73	s.	4	1.8		0	0			0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.52	749.8	30.07	763.8	60	15.6	75	w.	4	1.8		3 cs	sk.			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.32	744.7	30.00	762.0	68	20.0	66	calm	0	0			10 ks			0	0	cloudy	Lewis Duane.
Macon, Fort, North Carolina	29.98	761.5	29.99	761.7	80	26.7	88	w.	5	2.2		hz.	0			0	0	clear	F. P. Chaffee.
Madison, Wisconsin	29.14	740.1	30.12	765.0	50	10.0	86	nw.	12	5.4		0	0			0.06	1.5	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.81	655.6			59	15.0	60	w.	8	3.6		0	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.90	708.6	30.11	764.8	69	20.6	97	ne	6	2.7			10 n			0.31	7.9	heavy rain	J. E. Thatcher.
Marquette, Michigan	29.38	746.2	30.09	764.3	56	13.3	69	nw.	6	2.7		3 ck	0	nw.		0	0	clear	J. Gilligan.
Memphis, Tennessee	29.81	757.2	30.14	765.5	66	18.9	78	n.	2	2.2		10 cs	0	w.		0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.34	745.2	30.07	763.8	50	10.0	86	sw.	12	5.4		1 ck	2 ks	nw.		0.11	2.8	clear	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.81	681.0	30.03	762.7	68	20.0	84	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.03	762.7	30.07	763.8	74	23.3	87	nw.	3	1.3	.....	4 ck	5 ks	.....	w.	inap.	inap.	cloudy	C. A. Read.
Montgomery, Alabama	29.83	757.7	30.06	763.5	72.7	22.6	88	nw.	3	1.3	.....	.....	10 s	.....	w.	0.19	4.8	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.12	739.6	30.09	764.3	50	10.0	86	s.	4	1.8	.....	5 c	0	sw.	.....	0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.01	736.8	30.01	762.2	61.0	16.1	86	sw.	2	0.9	.....	0	4 k	.....	sw.	0.01	0.3	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.91	607.3	29.99	761.7	47.0	8.3	80	nw.	8	3.6	.....	.....	10 s	.....	nw.	0.02	0.5	cloudy	J. G. Livsley.
Nashville, Tennessee	29.53	750.0	30.09	764.3	63.0	17.2	84	w.	2	0.9	.....	8 cs	hz.	w.	.....	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.83	757.7	29.94	760.5	72	22.2	66	n.	3	1.3	.....	5 cs	hz.	sw.	.....	0	0	fair	J. H. Sherman.
New London, Connecticut	29.91	759.7	29.96	761.0	72	22.2	71	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.06	763.5	76.7	24.8	86	nw.	3	1.3	.....	.....	10 n	.....	nw.	0.28	7.1	light rain	L. Dunne.
Newport, Rhode Island	29.88	758.9	29.94	760.5	71.4	21.9	89	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	W. McGillivray.
New York, New York	29.80	756.9	29.97	761.2	71	21.7	76	s.	4	1.8	.....	1 cs	8 s	.....	w.	0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	29.94	760.5	29.97	761.2	80	26.7	74	n.	5	2.2	.....	5 ck	0	sw.	.....	0	0	fair	Wm. Davis.
North Platte, Nebraska	27.32	693.9	30.12	765.0	53.6	12.0	84	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.11	764.8	30.15	765.8	57.0	13.9	86	calm	0	0	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	J. Dascomb.
Ogdaamie, Pt. Barrow, Alas.	29.66	753.4	29.68	753.9	34.5	1.4	100	ese.	8	3.6	.....	.....	10 s	.....	.....	0.11	2.8	cloudy	P. H. Ray.
Omaha, Nebraska	29.07	738.4	30.21	767.3	60.0	15.6	81	calm	0	0	.....	6 c	2 k	.....	w.	0	0	cloudy	A. Pollak.
Oswego, New York	29.60	751.8	29.92	760.0	68.0	20.0	68	s.	4	1.8	.....	4 k	0	s.	.....	inap.	inap.	fair	S. W. Beall.
Palestine, Texas	29.55	750.6	30.09	764.3	68.0	20.0	78	n.	10	4.5	.....	7c;ck	0	nw.	.....	0.26	6.0	fair	L. M. Pindell.
Pensacola, Florida	30.03	762.7	30.06	763.5	76.8	24.9	82	sw.	4	1.8	.....	3 cs	0	w.	.....	0.58	14.7	clear	M. McGauran.
Philadelphia, Pa.	29.88	758.9	29.98	761.5	72	22.2	66	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.12	460.2	29.91	759.7	33	0.6	85	ne.	14	6.3	.....	1 cs	0	.....	.....	0	0	clear	L. M. Dey.
Pioche, Nevada	24.23	615.4	29.93	760.2	65.7	18.7	65	nw.	2	0.9	.....	.....	10 ks	.....	s.	0.01	0.3	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.17	740.9	29.96	761.0	59.8	15.4	81	s.	4	1.8	.....	9 k	0	sw.	.....	inap.	inap.	cloudy	J. B. Turton.
Poplar River, Montana	28.00	711.2	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.07	763.8	30.08	764.0	78.6	25.9	80	w.	6	2.7	.....	0	0	.....	.....	0.52	13.2	clear	M. Hermann.
Port Huron, Michigan	29.22	742.2	29.88	758.9	53.6	12.0	88	sw.	5	2.2	.....	.....	10 s	.....	.....	0.04	1.0	cloudy	W. O. Bailey.
Portland, Maine	29.86	758.4	29.91	759.7	72.0	22.2	71	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.05	763.3	30.12	765.0	60.2	15.7	81	nw.	2	0.9	.....	.....	10 s	.....	nw.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	81	27.2	88	w.	6	2.7	.....	hz.	0	.....	.....	0	0	clear	F. S. Coburn.
Prescott, Arizona	24.94	633.5	29.92	760.0	62	16.7	78	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.89	759.2	29.92	760.0	69	20.6	90	w.	5	2.2	.....	0	2 s	.....	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.08	764.0	30.09	764.3	82	27.8	73	w.	4	1.8	.....	4 ck	3 k	s.	sw.	0	0	fair	W. J. Evans.
Red Bluff, California	29.56	750.8	29.92	760.0	77.5	25.3	32	n.	3	1.3	.....	0	1 s	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.84	757.9	30.08	764.0	75	23.9	76	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Rochester, New York	29.26	743.2	29.92	760.0	60	15.6	81	sw.	12	5.4	.....	5 k	hz.	sw.	.....	0	0	fair	E. W. McGann.
Roseburg, Oregon	29.62	752.3	30.16	766.1	52	11.1	72	e.	2	0.9	.....	6 c	0	w.	.....	0	0	fair	J. J. Naury.
Sacramento, California	29.85	758.2	29.92	760.0	67.4	19.7	59	se.	6	2.7	.....	0	3 s	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.57	751.1	30.15	765.8	58.5	14.7	93	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.30	744.2	30.14	765.5	51.0	10.6	86	ne.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	P. F. Lyons
St. Vincent, Minnesota	29.16	740.7	30.01	762.2	53	11.7	93	se.	3	1.3	.....	2 cs	2 s	.....	.....	0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.76	654.3	29.95	760.7	75	23.9	50	calm	0	0	.....	3 k	0	sw.	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.42	747.3	30.11	764.8	69.0	20.6	100	nw.	4	1.8	.....	.....	10 n	.....	nw.	0.32	8.1	light rain	T. J. Kenan.
San Diego, California	29.87	758.7	29.94	760.5	66.1	18.9	93	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.29	744.0	29.95	760.7	56	13.3	86	w.	13	5.8	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.92	760.0	29.96	761.0	74.0	23.3	84	sw.	4	1.8	.....	.....	10 ks	.....	sw.	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.94	760.5	30.01	762.2	55	12.8	83	w.	9	4.0	.....	1 c	0	se.	.....	0	0	clear	N. Gerom.
Santa Fé, New Mexico	23.46	595.9	29.95	760.7	52	11.1	74	ne.	6	2.7	.....	0	0	.....	.....	0.17	4.3	clear	H. U. Jones.
Savannah, Georgia	29.95	760.7	30.04	763.0	82	27.8	67	nw.	4	1.8	.....	1 k	0	nw.	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.54	674.1	30.06	763.5	58	14.4	77	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.83	757.7	30.06	763.5	68	20.0	100	n.	7	3.1	.....	.....	10 n	.....	n.	1.15	29.2	light rain	E. N. Meekins.
Sill, Fort, Indian Territory	28.95	735.3	30.13	765.3	60.3	15.7	69	n.	5	2.2	.....	0	0	.....	.....	0.12	3.0	clear	T. Cleary.
Silver City, New Mexico	24.47	621.5	29.93	760.2	57	13.9	62	s.	2	0.9	.....	0	3 k	.....	calm	0	0	clear	J. B. Wallace.
Sitka, Alaska	30.02	762.5	30.08	764.0	53.5	11.9	93	se.	4	1.8	.....	.....	fg.	.....	se.	0.01	0.3	dense fog	J. J. McLean.
Smith, Fort, Arkansas	29.67	753.6	30.13	765.3	60.0	15.9	87	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	29.96	761.0	30.00	762.0	81	27.2	85	w.	3	1.3	.....	2 ck	0	sw.	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.96	710.2	29.96	761.0	69	20.6	76	calm	0	0	.....	3 ck	0	sw.	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.48	748.8	30.14	765.5	57.9	14.4	74	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.82	757.4	29.95	760.7	71.2	21.8	76	nw.	4	1.8	.....	8 k	0	.....	.....	0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.75	730.2	30.14	765.5	60	15.6	87	ne.	5	2.2	.....	0	1 ks	.....	.....	0	0	clear	J. B. Marbury.
Starkville, Miss.	29.61	752.1	30.08	764.0	69	20.6	84	n.	6	2.7	.....	2 ck	7 ks	.....	n.	2.00	50.8	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.28	718.3	30.06	763.5	54	12.2	86	e.	1	0.4	.....	0	4 s	.....	.....	0	0	fair	W. Burrows.
Stockton, Fort, Texas	27.14	689.3	30.08	764.0	61.0	16.1	93	calm	0	0	.....	0	3 s	.....	ne.	0.02	0.5	clear	J. O'Dowd.
Thomas Camp	27.31	693.7	29.93	760.2	79.5	26.4	46	e.	.....	.....	1	.....	8ks	.....	.....	0	0	cloudy	
Thatcher's Island, Mass.	29.87	758.7	29.92	760.0	65.0	18.3	91	ne.	8	3.6	.....	0	fg.	.....	.....	inap.	inap.	clear	G. Liebmann.
Toledo, Ohio	29.25	742.9	29.92	760.0	56	13.3	86	sw.	7	3.1	.....	.....	10 ks	.....	sw.	inap.	inap.	cloudy	A. Buell.
Tucson, Arizona	27.63	701.8	29.97	761.2	78	25.6	67	e.	2	0.9	.....	0	1 ks	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.57	751.1	29.93	760.2	79	26.1	39	sw.	14	6.3	.....	2 c	1 s	s.	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.12	739.6	30.06	763.5	72	22.2	84	ne.	14	6.3	.....	.....	10 s	.....	e.	0.59	15.0	threatening	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	74.8	23.8	47	n.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.81	757.2	30.05	763.3	73	22.8	84	ne.	4	1.8	.....	.....	10 s	.....	ne.	inap.	inap.	cloudy	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.72	627.9	30.06	763.5	54.4	12.4	68	nw.	2	0.9	.....	7 c	0	.....	.....	0	0	fair	T. M. Ambler.
Washington, D. C.	29.89	759.2	30.00	762.0	68.3	20.2	64	nw.	3	1.3	.....	5 k	0	nw.	.....	inap.	inap.	fair	F. M. M. Beall.
West Las Animas, Colorado	26.27	667.2	30.02	762.5	57.5	14.2	83	ne.	8	3.6	.....	0	3 k	.....	n.	0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.39	746.5	29.97	761.2	59.5	15.3	80	w.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	29.94	760.5	29.99	761.7	79	26.1	82	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	28.72	653.3	29.95	760.7	76	24.4	41	ne.	8	3.6	.....	3 ck	5 s	sw.	sw.	0	0	cloudy	J. Grover.
Yankton, Dakota	28.90	734.0	30.16	766.1	53	11.7	72	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Attfield.
Yuma, Arizona	29.78	756.4	29.92	760.0	83.3	28.5	73	se.	12	5.4	.....	.....	10 s	.....	se.	0	0	cloudy	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6	.....	.....	53.0	11.7	69	ne.	11	4.9	.....	.....	10 n;s	.....	nw.	0.05	1.3	foggy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.12	765.0	30.13	765.3	82	27.8	95	ne.	.....	.....	.....	0	5 ks	.....	.....	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.91	759.7	29.94	760.5	76	24.4	95	s.	2	0.9	.....	.....	10 n	.....	s.	0.70	17.8	raining	J. I. Plume.
Havana, Cuba†	30.05	763.3	30.11	764.8	78	25.6	76	se.	1.2	0.5	.....	0 es	0	.....	.....	0	0	fair	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	30.09	764.3	30.10	764.5	79.3	26.3	83	calm	0	0	.....	9 es	0	.....	.....	0.03	0.8	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	72	22.2	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa	29.95	760.7	30.03	762.7	82	27.8	78	ne.	7	3.1	.....	2 ck	4 ks	se.	e.	0.14	3.6	fair	F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	79	26.1	87	se.	.....	.....	2	5 k	0	se.	.....	0.680	17.3	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.40	746.7	29.96	761.0	78	25.6	80	calm	.....	.....	0	9 c	1 k	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	94	ne.	.....	.....	2	7 ck	0	ne.	.....	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alas*†	29.78	756.4	29.84	757.9	51	10.6	100	ne.	.....	.....	4	.....	10 n	.....	.....	0.86	21.8	rain & fog	W. J. Fisher.
St. Thomas, W. I.	30.08	764.0	30.21	767.3	83	28.3	72	e.	.....	.....	.....	2 ck	4 k	.....	e.	0	0	fair	Aug. Walloe.
York Factory, B. A.	29.76	755.9	29.82	757.4	48.0	8.9	100	e.	8	3.6	.....	fg.	fg.	.....	.....	1.50	38.1	foggy	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, N. 20° 36′ W. 32° 12′	30.13	765.3	77.8	25.4	72	ene.			2-3		7							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.87	758.7	81.5	27.5	78	wnw.			2		3	wnw.				2	wnw.	d. clouds.
H. M. S. Amethyst, Santos Bay, Brazil	30.36	771.1	69.8	21.0	90	se.			2		4	se.				2	sw.	d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.84	757.9	74	23.3		var.			2		8	nne.						showery.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.13	765.3	59.5	15.3		sw.			1-2		2							d. clouds.
H. M. S. Champion, Wrangel Bay, Corea			66	18.9	84	wnw.			1		4							d. clouds.
H. M. S. Cleopatra, N. 45° 12′, E. 139° 46′	29.90	759.4	69	20.6	90	se.			2		0					1	se.	blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	30.07	763.8	57	13.9	75	wsw.			1-2		6	w.						thnd'r storm.
H. M. S. Diamond, S 10° 15′, E. 161° 42′	29.94	760.5	79	26.1	90	calm			0		2							d. clouds.
H. M. S. Dido, N. 17° 10′, W. 69° 40′	30.14	765.5	82	27.8		e.			5-6		6	e.				2	e.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.12	765.0	78	25.6	88	ssw.			1-2		7	ssw.						raining.
H. M. S. Emerald, N. 44° 30′, W. 16° 30′	30.05	763.3	67.5	19.7	100	calm			0		10	wnw.						d. clouds.
H. M. S. Espiegle, S. 17° 46′ E. 168° 11′	30.04	763.0	69	20.6	100	calm			0		2							d. clouds.
H. M. S. Fantome, N. 15° 20′ W. 72° 44′	30.01	762.2	81	27.2		ne.			4		5	ne.				4	ne.	d. clouds.
H. M. S. Flying Fish, N. 32° 44′ E. 129° 52′	29.82	757.4	81	27.2	85	ne.			1		3					1	ne.	d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.02	762.5	59.5	15.3	91	calm			0		10							d. clouds.
H. M. S. Griffon, N. 45° 30 W. 61° 06′	30.04	763.0	59.5	15.3	88	s.			4		9					6	ssw.	misty.
H. M. S. Iron Duke, N. 44° 21′ E. 136° 52′	29.95	760.7	68	20.0	90	ssw.			1		6	ssw.				2	ssw.	d. clouds.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.97	761.2	84.3	29.1	89	calm			0		5							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.93	760.2	53	11.7		e.			2							1	n.	d. clouds.
H. M. S. Magpie, N. 35° 07′, E. 128° 40′	29.93	760.2	80.5	26.9	62	n.			1		2	nnw.						d. clouds.
H. M. S. Minotaur, Abonkir Bay, Egypt	29.85	758.2	80.5	26.9	74	nw.			2		2							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.87	758.7	67.5	19.7	94	se.			2									foggy.
H. M. S. Orontes, N. 37° 00′, E. 11° 50′	30.00	762.0	75.5	24.2	95	calm			0		0							blue sky.
H. M. S. Pegasus, N. 1° 17′, E. 103° 52′	29.83	757.7	84	28.9	83	e.			1		1							blue sky.
H. M. S. Sappho, Honolulu, Sandwich Islands	30.17	766.3	76	24.4	76	ne.			2		3							d. clouds.
H. M. S. Swiftsure, off Swallow Bay, Patagonia	30.16	766.1	44	6.7	92	ssw.			2-3		7	ssw.				5	ssw.	showery.
H. M. S. Sylvia, English Bank, Uruguay	30.13	765.3	51	10.6	83	w.			4		2							d. clouds.
H. M. S. Tenedos, N. 50° 39′ W. 56° 05′	29.83?	757.7?	61	16.1	94	sw.			4		9							squally.
H. M. S. Triumph, S. 41° 29′, W. 57° 16′	29.78	756.4	47	8.3	69	wnw.			6		7	wnw.				7	nnw.	d. clouds.
H. M. S. Tyne, N. 43° 50′, W. 9° 27′	30.02	762.5	63	17.2	94	calm			0		10					1	n.	foggy.
H. M. S. Woodlark, Jask, Persia	29.56	750.8	85.5	29.7	68	sse.			2-3		2	s.						misty.
H. M. S. Zephyr, N. 45° 31′, E. 137° 15′	29.87	758.7	63	17.2	100	sw.			1		10					1	sse.	d. clouds.
Portuguese Naval.																		
Rio Lima, N. 12° 35′, W. 18° 26′	30.08	764.1	80.6	27.0	84	nw.			2		4			15 h'r	15 h'r	2		raining.
Tamega, Macao, China	29.61	752.1	80.6	27.0	88	se.			4		10		se.	3 h'r	3 h'r			showery.
United States Naval.																		
Navy Yard, Pensacola, Fla.	29.92	760.0	76	24.4	86	nw.	3	1.3			8		ne.	0.01	0.3			fair.
Navy Yard, Portsmouth, N. H.	29.93	760.2	74	23.3	68	n.	2	0.9			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.74	755.4	69	20.6	97	ne.			1		10		ene.	0.48	12.2			raining.
Adams, Mare Island, Cal.			61	16.1	77	sw.			2		5			0	0	sm'h		fair.
Alaska, S. 6° 40′, W. 107° 01′	29.98	761.5	70	21.1	90	se.			2		2		se.	0	0	long	s.	fair.
Alliance, N. 42° 46′, W. 69° 58′	29.91	759.7	66	18.9	94	nnw.			1		10			0	0	sm'h		foggy.
Ashuelot, Yokohama, Japan*	29.68	753.9	71	21.7	98	n.			1		10		n.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.40	772.1	69	20.6	95	e.	3	1.3			2		e.	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.93	760.2	72	22.2	80	sw.	3	1.3			10		sw.	0	0			hazy.
Constellation, N. 39° 39′ W. 72° 25′*	29.97	761.2	75	23.9	95	sw.			1		0					sm'h		clear.
Essex, Coquimbo, Chili	30.00	762.0	54	12.2	87	ne.			0-1		0?					sm'h		overcast?
Franklin, Norfolk, Va.	29.99	761.7	76	24.4	86	n.	8.5	3.8			2		n.	0	0			fair.
Galena, N. 25° 55′, W. 20° 51′	30.07	763.8	76	24.4	95	n.			3		0					mod.	nne.	clear.
Independence, Mare Island, Cal.	30.01	762.2	61	16.1	?	sw.			2		0			0	0			clear.
Iroquois, Magdalena Bay, Cal.	30.05	763.3	72	22.2	85	s.			1		1		nw.	0	0			clear.
Kearsarge, Norfolk, Va.	29.97	761.2	78	25.6	91	nnw.			1		2		nnw.					clear.
Lackawana, Callao, Peru*	30.02	762.5	60	15.6	88	nw.			1		10							misty.
Lancaster, Villafranca, France*	29.94	760.5	78	25.6	86	se.			1		5		se.	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	30.10	764.5	50	10.0	86	n.			5		0					mod.	n.	clear.
Michigan, Lake Michigan	30.03	762.7	51	10.6	86	nnw.			2		5		nnw.					fair.
Minnesota, off New York, N. Y.	29.99	761.7	73	22.8	76	sw.	2	0.9			10							foggy.
Monocacy, Che Foo, China	29.97	761.2	77	25.0	91	ene.			1		5		calm			sm'h		fair.
New Hampshire, Newport, R. I.	30.04	763.0	69	20.6	75	w.			2		0					sm'h		clear.
Nipsic, Villafranca, France*	29.93	760.2	77	25.0	77	ese.			2		8					sm'h		cloudy.
Onward, Callao, Peru†	30.15	765.8	59	15.0	94	calm			0		10					long	w.	misty.
Palos, Kobe, Japan*	29.77	756.1	78	25.6	65	wnw.			1		2		wnw.					fair.
Passaic, Washington, D. C.	30.03	762.7	69	20.6	100	n.			1		8		n.					fair.
Pensacola, Panama, Panama*	29.83	757.7	78	25.6	91	nw.	3	1.3			10		nw.	light	light	sm'h		cloudy.
Portsmouth, N. 38° 25′, E. 2° 27′*	29.99	761.7	75	23.9	77	w.			1		5					sm'h		fair.
Powhatan, Norfolk, Va.	29.99	761.7	76	24.4	82	nnw.			1		0							fair.
Quinnebaug, Alexandria, Egypt*	29.83	757.7	80	26.7	91	nw.			3		0					sm'h		hazy.
Ranger, Mare Island, Cal.	29.95	760.7	64	17.8	68	sw.			2		0			0	0			clear.
Richmond, Yokohama, Japan*	29.80	756.9	71	21.7	100	ne.			3		10			0.52	13.2			raining.
Saratoga, N. 42° 08′, E. 6° 02′	29.97	761.2	73	22.8	85	nnw.			2		2		n.	0	0	sm'h		fair.
St. Louis, League Island, Pa.	30.22	767.6	72	22.2	80	w.			2		2			0	0			clear.
Swatara, N. 26° 23′, E. 126° 51′*	29.58	751.3	81	27.2	87	e.			5		2		e.			long	ne.	fair.
Tennessee, N. 42° 39′, W. 70° 00′	29.93	760.2	66	18.9	89	wnw.	6	2.7			0			0	0			foggy.
Vandalia, Portsmouth, N. H.*	29.90	759.4	74	23.3	72	calm			0		2		sw.					clear.
Wabash, Boston, Mass.	29.86	758.4	69	20.6	80	nw.	2	0.9			2		w.					clear.
Wachusetts, Fort Wrangle, Alaska †	30.27	768.8	54	12.2	93	wsw.			1		10		calm	0	0	sm'h		cloudy.
Wyoming, Port Royal, S. C.*	30.00	762.0	78	25.6	82	nw.	8	3.6			2		calm	0	0			clear.
Yantic, N. 42° 44′ W. 70° 00′	29.91	759.7	67	19.4	89	w.			1		2					sm'h		clear.
Merchant Marine.																		
Allan Line.																		
S. S. Grecian, N. 48° 21′, W. 5° 41′*	30.21	767.3	67	19.4		ene.			3		1		ene.	0	0	sm'h		fair.
S. S. Polynesian, N. 55° 25′ W. 35° 35′*	29.73	755.1	54	12.2		s.			3		10		s.	7 h'r	7 h'r	mod	sw.	light rain.
S. S. Scandinavian, N. 47° 15′, W. 44° 47′	30.05	763.3	58	14.4		ssw.			2		10			0	0	light	wsw.	foggy.
S. S. Waldensian, N. 55° 20′, W. 6° 20′*	30.23	767.8	60	15.6		var.			1		8?		sse.	0	0	light	sse.	clear.?
American Steamship Company.																		
S. S. British Crown, N. 42° 52′ W. 53° 26′†	30.26	768.6	73	22.8		sse.			4		0			0	0	sm'h		hazy.
S. S. Indiana, Philadelphia, Pa.†	30.10	764.5	72	22.2	95	e.			3		5		e.					cloudy.?
S. S. Lord Clive, Philadelphia, Pa*†	29.98	761.5				wsw.			1		4		wsw.					fine.
S. S. Lord Gough, Queenstown, Ireland	30.22	767.6	66	18.9		e.			4		2		e.	0	0	sm'h		fair.
S. S. Ohio, Philadelphia, Pa.†	29.86	758.4	70	21.1	100	e.			2		3		e.					fair.
Amsterdam Line.																		
S. S. Jason, N. 43° 30′, W. 46° 09′*	30.35	770.9	64.4	18		se.			1	4 ck						1	se.	clear.
S. S. Stella, N. 40° 52′, W. 68° 57′	29.92	760.0	71.6	22		w.			2		9		w.	0	0	2	w.	misty.
Anchor Line.																		
S. S. Alexandria, Palermo, Sicily	29.94	760.5	83	28.3		n.			1		0			0	0			clear.
S. S. Assyria, N. 49° 10′, W. 19° 24′†	30.13	765.3	65	18.3		e.			2		8		e.	0	0	sm'h		cloudy.
S. S. Bolivia, N. 48° 54′. W. 41° 48′*†	30.22	767.6	60	15.6		sw.			2		mist			0	0	long	sw.	foggy.
S. S. Dorian, Boston, Mass*	29.78	756.4	73	22.8														
S. S. Ethiopia, N. 45° 05′, W. 45° 23′	30.33	770.4	63.5	17.5	100	ne.			2		10		ne.	0	0	sm'h		dense fog.
Atlas Line.																		
S. S. Ailsa, N. 10° 02′ W. 78° 15′†	30.02	762.5	78	25.6	82	ne.			5		8		ne.	8 h'r	8 h'r	long	ne.	dull.
S. S. Alene, N. 16° 52′, W. 75° —′†	30.04	763.0				e.			4		3		e.	0	0	r'gh	e.	clear.
S. S. Alpin, Maracaibo, Venezuela	29.98	761.5				se.			1		1		se.	0	0			clear.
S. S. Antillas, Mayaguez, Porto Rico, W. I.†	30.00	762.0	87	30.6		var.			1		2							squally.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind. Upper.	Amount and kind. Lower.	Direction. Upper.	Direction. Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
British Meteorological Office.																		
Auckland, S. 41° 44′, E. 34° 09′	29.98	761.5	47	8.3	92	sw.			3		9							overcast.
S. Baroda, N. 0° 44′, W. 19° 23′	30.17	766.3	74.5	23.6	81	se.			4		1							blue sky.
Bk. Caldew, S. 34° 38′, E. 1° 54′	30.62	777.7	51.2	10.7	72	sse.			4		7							d. clouds.
S. S. Cipero, N. 47° 12′ W. 21° 07′	30.11	764.8	66.4	19.1	74	calm			0		4							d. clouds.
Bk. Commewyne, N. 43° 21′, W. 35° 00′	30.31	769.9	69	20.6	65	ne.			3		10							misty.
S. S. City of Agra, S. 40° 14′, E. 1° 34′	30.37	771.4	52	11.1	79	sw.			5		8							overcast.
S. S. Humboldt, River Plate, S. A.	30.01	762.2	52.1	11.2	79	nw.			6		2							blue sky.
May Hulse, N. 37° 22′, W. 38° 29′	30.25	768.3	79	26.1	69	ene.			4		3							showery.
S. S. Minho, S. 8° 04′, W. 34° 52′	30.19	766.8	79.5	26.4	95	se.			4		4							showery.
S. S. Oamaru, N. 3° 51′, W. 23° 10′	30.15	765.8	77.5	25.3	77	se.			5		1							misty.
S. S. Mertola, N. 37° 03′, W. 9° 04′	30.08	764.0	69.8	21.0	84	nw.			2		10							overcast.
California and Mexican Steamship Company.																		
S. S. Mexico, Mazatlan, Mexico*†	29.95	760.7	82	27.8	78	calm			0		0							clear.
Cromwell Line.																		
S. S. Hudson, N. 27° 20′, W. 86° 50′†	30.14	765.5	80	26.7		sw.			3		2		sw.	0	0	long	s.	fair.
Cunard Line.																		
S. S. Bothnia, N. 40° 35′, W. 69° 36′	29.97	761.2	77	25.0	90	s.			3		3		s.	0	0		s.	dense fog.
S. S. Gallia, N. 45° 42′, W. 42° 05′	30.30	769.6	72	22.2	?	n.			2		2		ne.	0	0	sm'h		fine.
S. S. Marathon, N. 36° 04′. W. 6° 16′	30.15	765.8	85	29.4		ssw.			2		5?		ssw.	0	0	sm'h	nw.	clear?
S. S. Scythia, N. 50° 12′, W. 21° 08′	30.04	763.0	70	21.1	95	e.			2		1		calm	0	0	sl't	se.	fine.
Donaldson Line.																		
S. S. Colina, N. 14° 34′, W. 45° 49′†	30.40	772.1				ne.			1		1		ene.			mod.	wnw.	misty.
General Trans-Atlantic Company																		
S. S. France, N. 45° 57′, W. 38° 57′†	30.22	767.7	68.0	20		nw.			3	c		nw.		0	0	sm'h	nw.	clear.
S. S. Ville de Marseilles, N. 39° 14′, W. 48° 00′*†	30.25	768.3	77	25.0		e.			4		2		ese.	0	0	long	e.	clear.
Guion Line.																		
S. S. Arizona, N. 47° 07′, W. 47° 19′	30.20	768.6	59	13.3		ssw.			3		10			0	0	sm'h		foggy.
S. S. Wisconsin, N. 51° 20′, W. 13° 06′	30.18	766.6	62	16.7		se.			2		10		ese.	0	0	sli't	se.	hazy.
Hamburg American Packet Company.																		
S. S. Cimbria, N. 49° 50′, W. 18° 41′†	30.14	765.5	67	19.4		ese.			3		2		se.	0	0	sm'h	se.	fair.
S. S. Herder, N. 44° 34′, W. 43° 11′*	30.03	762.7	74	23.3		wnw.			1		1		w.	0	0	sm'h	wnw.	clear.
S. S. Silesia, Hamburg, Germany	30.12	765.0	69.1	20.6		w.			5		10		w.	0	0			overcast.
S. S. Westphalia, New York, N. Y.	29.90	759.4	73	22.8	97	ssw.			2		2		ssw.	0	0			fair.
S. S. Wieland, N. 48° 56′, W. 30° 18′	30.24	768.1	62	16.7		nw.			2		3		nw.	0	0	1	ne.	fair.
Lampert and Holt's Line.																		
S. S. Archimedes, N. 40° 40′ W. 55° 47′†	30.21	767.3				ese.			5		0			0	0	long	ese.	fine.
S. S. Hevelius, Buenos Ayros, S. A*†	30.15	765.8	53	11.7		n.			4		2			0	0			clear.
Leyland Line.																		
S. S. Bulgarian, N. 43° 46′, W. 45° 54′*	30.38	771.6				ene.			1		0			0	0			clear.
Mallory Line.																		
S. S. City of San Antonio, N. 23° 57′, W. 80° 30′*†	30.26	768.6				calm			0		2		sw.	0	0	sm'h		fair.
S. S. Colorado, N. 27° 18′, W. 90° 23′†	30.08	764.0	81	27.2		s.			3		2		s.	light	light	small	s.	clear.
Mediterranean and New York Steamship Co.																		
S. S. Archimede, N. 36° 03′, W. 9° 02′*†	30.07	763.8	72	22.2	80	nnw.			1		5		n.	0	0	sm'h	ne.	fair.
Merchants Express Line.																		
S. S. Freja, N. 49° 17′, W. 16° 20′†	30.22	767.6	66	18.9	89	ene.			4		hz			0	0	sm'h		overcast.
Merchant Steamship Company.																		
S. S. Glenapp, Para Brazil †	29.99	761.7				var.			1		3		e.	0	0			
Morgan Line.																		
S. S. Chalmette, N. 24° 30′, W. 83° 10′ †	30.13	765.3	84	28.9		calm			0		8		sw.	0	0			cloudy.
S. S. New York, N. 28° 20′, W. 88° 10′†	30.23	767.8	81.0	27.2		sw.			5		0					sm'h		clear.
National Line.																		
S. S. Canada, Gravesend, Eng.†	30.31	769.9				e.			1		8		e.			sm'h		dense mist.
S. S. Denmark, N. 44° 10′, W. 39° 35′	30.32	770.1	70	21.1		ese.			1		8		ne.	0	0			cloudy.
S. S. England, Off Ballycottin, Ireland	30.29	769.4				nne.			4		2		nne.	0	0	sm'h		hazy.
S. S. Erin, N. 52° 00′, W. 6° 30′	30.20	767.1	70	21.1	?	e.			3				ese.	0	0	sm'h		hazy.
S. S. The Queen, N. 40° 28′, W. 70° 20′	29.94	760.5	70	21.1		sw.			2		0			0	0	long	sw.	clear.
New York, Havana and Mexican Mail.																		
S. S. City of Alexandria, New York, N. Y.†	29.97	761.2	72	22.2	85	wsw.			2									cloudy.
S. S. City of Washington, N. 23° 08′, W. 83° 05′*†	30.18	766.6	85	29.4		e.			2		2		e	0	0	sm'h		fine.
North German Lloyd.																		
S. S. America, N 43° 23′ W. 40° 11′*	30.39	771.9	73.0	22.8	63	e.			1		2		nnw.	0	0	sm'h		clear.
S. S. Graf Bismarck, N. 25° 31′, W 17° 46′	30.07	763.8	78.8	26.0		ne.			3		2?		ne.	0	0	mod.	ne.	cloudy?
S. S. Hohenslaufen, N. 40° 28′, W. 74° 00′	29.87	758.7	78.8	26.0		s.			3		5		s.	0	0	2	s.	fair.
S. S. Koln, N. 45° 24′ W 38° 38′ *	30.35	770.9	83.0	28.3	52	calm			0		0			0	0	sm'h	wnw.	clear.
S. S. Main, N. 52° 08′, E. 2° 51′	30.19	766.8							3		5?		ne.	0	0	mod.	nne.	clear?
S. S. Neckar, N. 43° 42′, W. 44° 41′	30.36	771.1	74.0	23.3	90	e.			3		1		e	0	0	sm'h	e.	clear.
S. S. Ohio, N. 37° 16′, W. 76° 02′	30.00	762.0				s.			1		2		sw.	0	0	sm'h		fair.
Occidental and Oriental Steamship Company.																		
S. S. Belgic, Yokahama, Japan †.	30.15?	765.8?	75	23.9	100	calm			0		10							light rain
S. S. Gaelic, N. 31° 45′, E. 132° 31′†	30.08	764.0	79	26.1	91	ne.			2		c		e.			sm'h		fine.
Ocean Steamship Company.																		
S. S. City of Augusta, New York, N. Y †.	29.96	761.0				ssw.			1		10		sw.	0	0			smoky.
S. S. Seminole, Savannah, Ga†	30.12	765.0	86	30.0	76	nw.			1		1		nw.	0	0			clear.
Oregon Railway and Navigation Company.																		
S. S. Oregon, N. 42° 45′ E. 124° 48′†	30.21	767.3	58	14.4	88	ne.			2		5		nw.			sm'h		gloomy.
Pacific Coast Steamship Company.																		
S. S. Ancon, N. 34° 30′ W. 120° 38′†	29.91	759.7	59	15.0	82	nw.			3		0					mod.	nw.	clear.
S. S. City of Chester, San Francisco, Cal*†	29.94	760.5	54	12.2	?	nw.			1		2		nw.					cloudy.?
S. S. Idaho, N. 48° 26′, W. 123° 26′†	30.13	765.3	53	11.7	93	wsw.			4		8		w.	0	0	sm'h		cloudy.
S. S. State of California, Portland, Oregon†	30.17	766.3	59	15.0	100	n.			2		4		n.					fair.
S. S. Victoria, San Francisco, Cal.†	29.90	759.5	54	12.2	87	calm			0					0	0	sm'h		fair.
Pacific Mail Steamship Company.																		
S. S. Australia, S. 33° 50′, E. 152° 46′	30.06	763.5	58	14.4	94	sse.			3		10		se.	0	0	long	e.	hazy.
S. S. City of New York, Sydney, N. S. W†.	30.09	764.3	50	10.0	72	ese.			1		0			0	0			clear.
S. S. City of Pekin, N. 47° 59′, W. 170° 54′†	30.31	769.9	48	8.9	85	nnw.			4		10		nnw.	0	0	small	n.	misty.
S. S. City of Rio de Janeiro, N. 19° 17′, W. 105° 12′*†	30.21	767.3	80	26.7	78	nw.			2		8		nw.	0.1	2.5	light	ssw.	clearing.
S. S. City of Tokio, Hong Kong, China†	29.74	755.4	80	26.7	97	e.			6		10		e.	20 h'r	20 h'r			rainy.
S. S. Colima, Mazatlan, Mexico†	30.01	762.2	79	26.1	70	nw.			2		4		ne.	0	0	mod.	sw.	clear.
S. S. Colon, Aspinwall, Panama†	29.95	760.7	81	27.2		ne.			2		10		ne.	2 h'r	2 h'r	sm'h		overcast.
S. S. Granada, Panama, Panama†	29.92	760.0	83	28.3	83	wnw.			3		5?		nw.	3 h'r	3 h'r	sm'h	nw.	clear?
S. S. Zealandia, N. 5° 37′, W. 164° 01′	29.99	761.7	81	27.2	91	var.			1		10		e.			mod.	e.	fine.
Quebec Steamship Co.																		
S. S. Muriel, Martinique, W. I.	30.12	765.0	82	27.8		ene.			3		10*			0	0	sm'h		overcast.
Red D Line.																		
S. S. Valencia, Puerto Cabello, Venezuela*†	30.23	767.8	84	28.9	83	w.			2		3		se.	0	0			fine.
Red Star Line.																		
S. S. Belgenland, Philadelphia, Pa.†	30.00	764.3	78	25.6	86	calm			0		0							
S. S. Nederland, N. 41° 16′, W. 67° 11′†	29.95	760.7	62	16.7	97	sse.			1		fg					sm'h	s	foggy.
S. S. Pennland, N. 47° 36′, W. 29° 12′	30.21	767.3				nnw.			2		10		se.	0	0	sm'h	nw.	cloudy.
S. S. Rhynland, Antwerp, Belgium *†	30.43	772.9	69	20.6	99	w.			3		8		wnw.	0	0			cloudy.
S. S. Vaderland, N. 40° 37′. W. 40° 56′	30.06	763.5	77	25.0	77	ese			1		0			0	0	s.m'h		clear.
S. S. Waesland, New York, N. Y.	29.92	760.0	74	23.3	76	s.			3		10		ssw.	0	0			cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. Edam, N. 48° 07′, W. 36° 06′	30.20	767.1	67.5	19.7	89	wnw.			4		7		n.	0	0			cloudy.
S. S. W. A. Scholten, Rotterdam, Holland*	30.04	763.0	68.5	20.3	94	ne.			2		5		n.	0	0			hazy.
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, N. 26° 23′, W. 73° 51′	30.15	765.8	84	28.9		s.			2		1		s.	0	0	gentle	s.	fair.
STATE LINE.																		
S. S. State of Florida, New York, N. Y.	29.86	758.4	77	25.0		s			2		3		sw.	0	0			fair.
S. S. State of Indiana, N. 50° 27′, W. 38° 02′†	30.34	770 6	62	16.7		wsw.			3		0		wsw.	0	0	sm'h		foggy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 41° 26′, W. 61° 58′†	30.24	768.1	79.7	26.5	80	s.			2		2		s.	0	0	mod	s.	clear.
WARREN LINE.																		
S. S. Iowa, N. 48° 50′ W. 29° 27′*†	30.35	770.9	60	15.6		nw.			2		8			0	0	sm'h		cloudy.
WHITE STAR LINE.																		
S. S. Adriatic, N. 51° 28′, W. 13° 26′*†	30.37	771.4	61	16.1	94	sse.			2		10			0	0	sm'h	sse.	dense fog.
S. S. Britannic, N. 43° 22′, W. 57° 48′†	30.17	766.3	66	18.9	94	ssw.			2		fg.			0	0	mod.	sw.	foggy.
S. S. Celtic, New York, N. Y †	30.00	762.0	78	25.6	73	sw.			2		0			0	0			fine.
S. S. Republic, N. 50° 04′, W. 23° 32′†	30.24	768.1	63	17.2	94	ene.			1		9		e.	0	0	mod.	ne.	misty.
WILSON LINE.																		
S. S. Romano, N. 42° 10′, W. 66° 00′	29.89	759.2	64	17.8		sw.			1		10		nw.			mod.	w.	overcast.
WINSOR LINE.																		
S. S. Aries, N. 40° 20′, W. 73° 35′†*	29.90	759.4				w.			6		5		w.	0	0	long	s.	
S. S. Catherine Whiting, Barnegat, N. J†	30.02	762.5	74	23.3		wnw.			1				nw.	0	0	light	s.	
MISCELLANEOUS.																		
Bk. Adelaide, N. 37° 16′, W. 57° 08′*†	30.20	767.1	83	28.3		w.			3		2		w.	0	0	mod.	sw.	threatening
Schr. Ajax, Brandywine, Del†	30.07	763.8				nnw.			1		1		wnw.	0	0	sm'h	nw.	hazy.
Bk. Alpha, N. 58° 25′, E. 2° 50′†	30.17	766.3	58	14.4		wnw.			3		8		wnw.	0	0	sm'h		cloudy.
Schr. Anna R. Holton, N. 39° 36′, W. 73° 47′†	30.01	762.2	78	25.6		wnw.			1				nw.	0	0	hv'y	s.	fair.
Bk. Anna Thormann, S. 36° 54′ E. 96° 43′	30.22	767.5	50.2	10.1	71	ssw.			3		3 k		sw.	8 h'r	8 h'r	mod.	sw.	fair.
S. S. Antonio Lopez, N. 18° 34′, W. 66° 04′*	30.18	766.6	81	27.2	84	e.			4		4			0	0	mod.		fair.
Bk. Argonaut, N. 41° 55′ W. 64° 37′*†	30.03	762.7	70.5	21.4		s.			4		5		nnw.	0	0	long	wsw.	hazy.
Bk. Aureola, N. 6° 56′, W. 40° 52′*†	30.10	764.5	78	25.6		sw.			2		6		sw.	5 h'r	5 h'r	mod.	sw.	fair.
Bk. B. F. Watson, N. 28° 35′ W. 39° —†.	30.16	766.1	78	25.6		w.			2		4		nw.	1 h'r	1 h'r	sm'h		squally.
Bk. Bergenseren, N. 45° 20′, W. 52° 40′†	30.21	767.2				s.			3		fg.		s.	0	0	2	ssw.	dense fog.
Bk. Bremen, N. 55° 42′, W. 24° 16′*†	30.08	764.0				sw.			4		10		sw.	0	0	cross	sw.	cloudy.
Bk. Cato, Malmö, Sweden*†	30.49	772.1				wnw.			5									fair.
Bk. Celestina, N. 12° 38′, W. 23° 50′*†	30.05	763.3				calm			0		0			0	0	long	sw.	
Schr. C. R. Flint, Noank, Conn†	30.14	765.5	73	22.8		wnw.			1		0			0	0			clear.
S. Cornelius, N 49° 20′, W. 10° 40′*†.	30.43	772.9	58.1	14.5		e.			2		8		e.	0	0	sm'h	se.	misty.
S. Dora, N. 0° 00′, W. 21° 50′†	30.20	767.1	78.4	25.8		se.			4		3 k		se.	0	0	mod.	sse.	hazy.
Schr. Edith R. Seward, Baltimore, Md†*	30.02	762.5	74	23.3		nw.			1		6		nnw.	0	0			cloudy.
S. E. J. Spicer, N. 40° 30′, W. 67° 30′*	29.98	761.5	72	22.2		ssw.			3		fg			8 h'r	8 h'r	mod	ssw.	dense fog.
S. Enoch Train, N. 50° 44′, W. 12° 23′†	30.40	772.1				e.			1		0			0	0	sm'h		
Bk. Essex, N. 0° 35′ E. 45° 12′*†	29.95	760.7	80	26.7		ssw.			3		5		ssw.	1 h'r	1 h'r	mod	s.	cloudy.
Bk. Franklin, N. 58° 25′, W. 9° 55′*†	30.43	772.9				sw.			3		8			0	0			cloudy.
Bk. Freya, N. 37° 54′, W. 76° 11′			81	27.2		nw.			4		1		ssw	0	0			fine.
S. Glendon, N. 37° 50′ W. 56° 00′†	30.11	764.8	84	28.9		e.			1		8		se.	0	0	sm'h		fair.
Bk. Godefroy, N. 37° 56′ W. 17° 33′	30.06	763.5	69.4	20.8	78	ssw.			3		9		ssw.	0	0	mod.	w.	cloudy.
S. Grecian, N. 12° 31′, E. 115° 00′*†	29.75	755.6	84	28.9		sw.			6		3	se.	w.	0	0	sm'h	ssw.	clear.
Bk. Gronsvaer, N. 30° 50′, W. 38° 00′†	30.18	766.5				se.			1		3		se.	1 h'r	1 h'r	sm'h		clear.
Bk. Hattie G. McFarland, Bath, Maine*†	29.95	760.7	70	21.1		n.			3		3		nw.	0	0			fair.
Schr. Hattie Weston, N. 20° 00′, W. 68° 12′*†	30.26	768.6	84	28.9		e.			3		5		e.	0	0	mod.	ene.	fair.
Bk. Heinrich & Tonio, N. 41° 50′, W. 31° 50′*†	30.46	773.7	71	21.7		ne.			4		2		ne.	0	0	mod.	e.	fair.
Schr. Henry Denison, N. 34° 47′, W. 73° 38′†	29.96	761.0				ssw.			2		0					long	s.	fair.
Bk. Horace Scudder, Port of Spain W. I†	30.14	765.5	81	27.2		calm			0		2		calm	2 h'r	2 h'r			blue sky
S. Ivy, S. 42° 00′, W. 102° 36′†	30.74	780.8	46	7.8		s.			7		6		sse.	0	0	r'gh	sse.	squally.
S. Ismir, S. 2° 53′, E. 106° 53′†	29.32	744.7									6			0	0	sm'h		fine.
Schr. James Slater, N 36° 00′, W. 73° 16′*†	30.28	769.1	85	29.4		w.			1		0			0	0	light	ssw.	
Schr. Jennie N. Huddell, Philadelphia, Pa†	29.72	754.9	74	23.3	90	nw.			1		0			0	0			clear.
Bk. Johanne, N. 41° 34′, W. 66° 53′*†.	30.00	762.0	73	22.8		calm			0		0			0	0	sm'h		dense fog.
Bg. John Wesley, St. Jago, Cuba W. I†	29.93	760.2				calm.			0		9		w.	0	0			cloudy.
Bk. Joseph A. Ropes, N. 37° 58′, E. 3° 05′*†	30.53	775.4	51	10.6	78	w.			4		6			1 h'r	1 h'r	long	v/sw.	fair.
Bkt. Josephine, Havana, Cuba, W. I.†	30.10	764.5	78	25.6	86	e.			1		5			0	0			clear.
Bkt. Kryolith, N 39° 05′ W. 74° 03′*†	30.00	762.0				calm			0		2			0	0	short	sse.	clear.
S. S. Lamperts, N. 41° 00′, E. 2° 15′*	30.04	763.0	76	24.4	69	se.			2		0		sse.					misty.
Light House Tender, Laurel, Key West, Fla†	30.14	765.5	85	29.4		sse.			1		4		var.	0	0			fair.
Bk. Liberia, N. 34° 12′, W. 66° 44′*	30.06	763.5	82	27.8	87	sw.			3		8							showery.
Schr Maggie Abbott, Port au Prince, Hayti, W. I†	30.07	763.8												0	0			clear.
S. Minnie N. Gerow, N. 42° 25′, W. 22° 00′*†	30.04	763.0				ne.			6		10		ne.			sm'h	ne.	sprinkling.
S. M. P. Grace, S. 40° 24′, W. 87° 51′*	29.93	760.2	46	7.8		s.			3				sse.	0	0	high	wsw.	fair.
Bk. National Eagle, N. 39° 12′, W. 34° 37′†	30.21	767.3				ne.			3		1		ne.	0	0	sm'h		fair.
S. S. Nebo, Porman, Spain*†	30.00	762.0				se.			1		0			0	0	sm'h	s.	clear.
S. Oracle, N. 37° 32′, W. 61° 31′*	30.10	764.5	85	29.4	79	s.					3 k		se.			mod.	se.	fine.
S. Orealla, N. 18° 31′, W. 35° 44′*	30.05	763.3				e.			3		1		e.	0	0		ene.	clear.
S. Paramita, N. 37° 54′ W. 124° 30′†	30.09	764.3	69	20.6		nnw			3–8		1		nw.	0	0	short	nnw.	clear.
Bk. Rosebud, S. 37° 32′ E. 44° 22*†	30.40	772.1	55	12.8	27	ne.			6		10		e.	sh'rs	sh'rs	short	ne.	
S. St. Francis, N. 35° 09′, W. 50° 52′†	30.13	765.3	78	25.6		nw.			2		3		nw.	0	0	long	nw.	fair.
Bk. Sunbeam, N. 39° 33′ W. 37° 14′†	30.37	771.4	77	25.0	76	ene.			4		5		e.	0	0	mod.	nw.	fair.
S. S. Sunbeam, N. 42° 09′, W. 9° 33′	30.06	763.5	64	17.8	88	calm			0		10		e.			sm'h		misty.
S. Sovereign of the Sea, S. 43° 35′, W. 58° 45′*†	29.41	747.0	45	7.2	92	wnw.			4		10		wnw.	1 h'r	1 h'r	cross	s;w.	cloudy.
Bg. Teneriffe, N. 25° 33′, W. 79° 40′	30.09	764.3				calm			0					0	0	sm'h		fine.
Bk. Truro, N. 39° 52′, W. 71° 45′*†	29.96	761.0				wsw.			2		1			0	0	mod.	se.	clear.
U.S.F.C.S.S. Fish Hawk, Woods Holl, Mass†	30.12	765.0	70	21.1	100	sw.			1		10		sw.	0	0			foggy.
Schr. Victor Ping, N. 31° 42′, W. 69° 36′*†	30.10	764.5				s.			3		9		sw.			r'gh	sse.	cloudy.
Bk. Vincenzo Accame N. 38° 29′, W. 43° 37′†	30.51	775.0	78.8	26		e.			6		0							clear.
Schr Viola Reppard, N. 33° 23′, W. 77° 34′†	30.00	762.0	85	29.4		wsw.			2		0			0	0	small	s.	
Bg. Wauburn, Azua, San Domingo*†	30.10	764.5				nnw.			3		2		nne.			mod.	sse.	¼ covered.
Bk. Warden Law, Sunderland, Eng*	30.10	764.5				se.			2		3		s.	0	0			fair.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 11, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.03	762.7	78.1	25.6	82	s.			5		1			0	0	very fair	Bouvier.
Alglers			30.03	762.8	78.8	26.0	69	n.			2		0			0	0	clear	Thève.
La Calle			30.01	762.2	78.8	26.0	84	ene.			4		0			0	0	clear	Fonfréde.
Tunis			30.00	762.0															Jacques.
Saida			30.06	763.4															Perés.
Tebessa			30.06	763.5	83.8	28.8	26	se.			1		0			trace	trace	clear	Rigaud.
Geriville					95.0	35.0	4	ssw.			3		2			0	0	fair	Lonchamp.
Laghouat			30.10	764.6	98.6	37.0	30	ne.			1		1			0	0	very fair	Abraham.
Biskra			30.08	764.0	96.4	35.8	31	nw.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.95	760.7	30.04	763.0	45.7	7.6	92	n.	1	0.4			10			0	0	foggy	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.47	748.5	29.99	761.8	77.4	25.2	50	ne.			3		4			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.30	744.2	30.04	763.0	72.0	22.2	56	nw.	3.1	1.4			10			0	0		Dr. Wierzbiski.
Eperies	29.09	738.9	29.93	760.2	74.5	23.6	56	nw.			2	0	7 ks		s.	0.165	4.2		Julius Mikolik.
Gratz	28.82	732.0	30.02	762.5	72.9	22.7	84	ne.			2		5			0	0		Andreas Rospini.
Hermannstadt	28.51	724.2	29.87	758.8	75.4	24.1	59	w.			1		4			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.78	730.9	30.07	763.8	71.4	21.9	72	nne.			1		3			0	0	almost clear	The Staff.
Lemberg	28.98	736.0	29.93	760.1	71.4	21.9	59	ne.			1		8			0	0		Dr. T. Stanecki.
Pola	29.90	759.5	30.01	762.2	79.3	26.3	52	nne.			2		9			0	0		I. R. Hydrographic Office.
Szathmar	29.47	748.5	29.92	759.9	73.8	23.2	59	n.			1		2			0	0		Joseph Midlinszky, S. J.
Szegedin	29.09	754.1	29.96	760.9	74.8	23.8	74	nw.			1		2			0	0		Karl Stancel.
Trieste																			Royal Academy.
Vienna	29.38	746.2	30.07	763.7	74.8	23.8	56	nw.			2		8			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.94	760.5	30.03	762.7	77.5	25.3	49	s.	13	5.8			2			0	0	blue sky	W. Boswell
Armagh, Observatory	29.90	759.4	30.12	765.0	66.6	19.2	76	ssw.	8	3.6			5					misty	S. Call.
Bidston, Liverpool Obs'y			30.15	765.8	69.1	20.6	56	se.	11	4.9			0					blue sky	John Hartnup.
Bolton, Sharples	29.60	751.8	30.13	765.3	69.4	20.8	57	sse.	18	8.0			0					misty	Thomas Mackereth.
Bradford, Yorkshire	29.75	755.6	30.14	765.5	71.8	22.1	47	se.			2		1			0	0	blue sky	J. McLandsborough.
Bridgetown, Barbadoes	29.99	761.7	30.02	762.5	84.0	28.9	69	ne.			2		2					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			30.14	765.5	71.2	21.8	63	se.			0.4		2					blue sky	John McLaren.
Chatham, School M. E.	30.08	764.0	30.20	767.1	64.8	18.2	73	e.			2		8					gloomy	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.93	760.2	30.16	766.1	61.7	16.5	79	ese.			3		10					overcast	The Staff.
Fort Napier, Natal	27.60	701.0	29.81	757.2	73.0	22.8	50	ne.			1		0					blue sky	Corpl. F. Milner, A. H. C.
Free Town, Sierra Leone	29.74	755.4	29.97	761.2	80.0	26.7	86	nw.			1		5						Sergt. John Robinson.
Gibraltar, Mediterranean	29.57	761.2	30.02	762.5	77.5	25.3	79	e.			2		5					d. clouds	Corpl. F. Norris, A. H. C
Glasgow, Observatory	29.89	759.2	30.09	764.3	72.0	22.0	56	wsw.			3		2					blue sky	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	30.01	762.2	30.18	766.0	65.3	18.5	73	ese.			1		10					overcast	The Staff.
Guernsey	29.82	757.4	30.12	765.0	65	18.3	78	ene.			2		3					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	30.16	766.1	30.20	767.1	62.3	16.8	71	ese.	6	2.7			10					misty	The Staff.
Leicester, Museum	29.94	760.5	30.19	766.8	67.1	19.5	57	s.			1		6					d. clouds	J. C. Smith.
Malta, Mediterranean	29.82	757.4	29.89	759.2	86.4	30.2	47	w.			2		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.15	765.8	30.20	767.1	88.0	31.1	69	se.			1		6			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.68	753.9	30.20	767.1	63.1	17.3	67	s.			3		7					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.96	761.0	30.19	766.8	63.3	17.4	69	calm			0		9					overcast	The Staff.
Plymouth	30.08	764.0	30.16	766.1	64.0	17.8	62	e.			1		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.97	761.2	59	15.0	84						10					misty	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.81	757.2	29.87	758.7	88.0	31.1	40	ne.			2		3					d. clouds	W. H. Lyne.
Sheffield	29.90	759.4	30.17	766.3	73.2	22.9	52	ne.			1		0			0	0	blue sky	W. F. Cooper.
Silloth Rectory	30.10	764.5	30.13	765.3	69.1	20.6	66	wsw.			2		0			0	0	blue sky	Rev. F. Redford, M. A.
Stonyhurst, Observatory			30.16	766.1	69.0	20.6	62	wsw.	2	0.9			0					misty	I. New.
Stratfield Turgiss					65.9	18.8	73	e.			1		8					d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	30.13	765.3	30.14	765.5	70	21.1	71	e.			6		10					gloomy	W. Newcombe.
Valencia, Observatory	30.09	764.3	30.11	764.8	67.4	19.7	70	sse.	12	5.4			2					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.93	760.2	29.97	761.2	70	21.1	90	s.	8	3.6		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.80	758.4	29.92	760.0	66	18.9	90	s.	7	3.1			10 n		s.	0.01	0.3	cloudy	G. A. Blair.
Father Point, Quebec*	29.81	757.2	29.83	757.7	63	17.2	87	sw.	12	5.4		2 k	5 n	calm	calm	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.04	737.6	29.83	757.7	62	16.7	93	n.	5	2.2		0	0			0	0	hazy	James Stewart.
Halifax, N. S*	29.91	759.7	30.03	762.7	63	17.2	100	e.	2	0.9			fg.			0.016	0.4	dense fog	A. Allison.
Kingston, Ontario*	29.66	753.4	29.98	761.5	62	16.7	84	sw.	6	2.7		2 c	5 k	e.	sw.	0.03	0.8	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.70	754.4	29.90	759.4	62	16.7	81	w.	16	7.2		0	0			0.49	12.4	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.29	744.0	29.96	761.0	61	16.1	72	w.	20	8.9		0	0			0.42	10.7	clear	Rev. R. Mosley.
Port Dover, Ontario	29.37	746.0	30.06	763.5	58	14.4	94	w.	7	3.1		0	0			0.03	0.8	clear	H. Morgan.
Port Stanley, Ontario	29.43	747.5	30.07	763.8	55	12.8	80	w.	4	1.8		0	0			0.03	0.8	clear	M. Payne.
Quebec, Quebec*	29.57	751.1	29.89	759.2	61	16.1	87	nw.			5	0	5 s		w.	0.74	18.8	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.44	747.8	29.88	758.9	60	15.6	87	nw.	7	3.1		c	2 ks		nw.	0.44	11.2	fair	W. H. McIntyre.
Saugeen, Ontario*	29.29	744.0	29.99	761.7	61	16.1	60	sw.	10	4.5		0	0			0	0	clear	
St. Andrews, N. B	29.88	758.9	29.93	760.2	55	12.8	96	se.	1	0.4			fg.			0	0	foggy	
Sydney, C. B*	29.98	761.5	30.04	763.0	69	20.6	93	s.	9	4.0			10 n			0.20	5.1	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.67	753.6	30.05	763.3	58	14.4	83	w.	5	2.2		0	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.93	760.2	29.99	761.7	63	17.2	90	s.	2	0.9		2 k	0	s.		0	0	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.65	727.7	30.10	764.5	53.0	11.7	100	nw.			1		fg.		nw.	0.217	5.5	dense fog	Wm. Wylie.
St. Johns, Newfoundland	30.027	762.57	30.267	768.67	787	25.67	82	sw.	2	0.9		5 k	5 s			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.23	767.8	30.25	768.3	61	16.1	72	se.	15.0	6.7			10 n			0.120	3.0	hazy	C. Hansen.
Cape Town, O. G. H. Obs'y	30.20	767.1	30.23	767.8	61.2	16.2	62	sse.	25	11.2		0	2			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.82	757.4	29.85	758.1	74.3	23.5	90	e.	4.5	2.0			0			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.00	762.1	30.05	763.3	68.0	20.0	53	nw.	13	6			1						Oversergent Fischer.
Fanöe	30.11	764.8	30.13	765.3	64.9	18.3	84	w.			4		1						Overloerer Lauridsen
Godthaab, Greenland	29.75	755.7	29.80	756.8	39.9	4.4	90	calm			0		10			0	0		S. Kleinschmidt.
Ivigtut	29.69	754.2	29.71	754.7	44.6	7.0		calm			0		7						
Stykkisholm, Iceland	29.50	749.2	29.54	750.3	48.6	9.2	88	e.			6		8						A. O. Thorlacius.
Thorshavn	29.69	754.2	29.73	755.1	53.6	12.0	89	sw.	9	4			10					raining	Overloerer Bergh.
Vestervig	30.01	762.2	30.10	764.5	64.8	18.2	84	wnw.			4		0						Loerer Oesterbol.
FRENCH.																			
Agen, Normal School	29.37	746.0	29.98	761.6	85.3	29.6	39	se.			1	0	0			0	0	clear	M. Labroue, Directo .
Alençon, Normal School	29.58	751.2	30.13	765.2	69.1	20.6	87	se.			4	ck	0			0	0		M. Nicot, Director.
Arras, Engineer School	29.93	760.2	30.18	766.6	68.7	20.4	62	se.			1	0	0			0	0	clear	M. Fénéon, Command't.
Avignon, Normal School	29.94	760.5	30.02	762.5	87.1	30.6	55	w.			1					0	0		M. Giraud, Director.
Bar-sur-Seine	29.55	750.6	30.09	764.2	74.5	23.6	59	se.			1		1			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.88	759.0	30.14	765.6	70.0	21.1	59	ene.			2		10		e.	0	0	covered	M. Frère Eugène Malle.
Besançon, Normal School	29.11	739.3	29.99	761.0	81.0	27.2	95	n.			1	0	2 k		n.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.71	754.5	29.95	760.8	83.1	28.4	29	se.			1		0			0	0	clear	M. Rayet, Director.
Bourges, Normal School	29.50	749.3	30.04	762.9	78.8	26	48	n.							n.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.87	758.6	30.11	764.8	72.0	22.2	64	e.			1		6		e.	0	0		M. de Kermaree, Dir.
Caen, Normal School	30.09	764.2	30.16	766.1	60.4	15.8	78	se.			1		2		se.	0	0	slightly cl'dy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.79	756.6	30.10	764.6	73.4	23.0	74	ese.			1		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School	29.61	752.1	30.10	764.6	77.0	25	47	ene.			2		2			0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.70	729.0	29.98	761.6	81.3	27.4	35	e.			2	2 c	0			0	0	¼ covered	M. Allnard, Director.
Cluny, Normal School	29.24	742.6	30.05	763.3	75.9	24.4	60	ne.					1			0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.22	716.8	30.11	764.8	70.5	21.4	81	e.			2		kn	e.	e.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.49	698.2	29.91	759.6	79.5	26.4	23	n.			2	0	3 k		n.	0	0		M. Jeangirard, Director.
Grésaque, du Rhone	28.97	735.9	30.03	762.8	86.4	30.2	21	sw.			2		2		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.18	741.2	29.92	759.9	83.5	28.6	79	nw.			1	0	2 k			0	0	slightly cl'dy.	M. Ablard, Director.
Lamballe, Normal School					74.1	23.4	56	ne.			3		fg		ne.	0	0	light fog	M. Ollitrault, Director.
Lescar, Normal School	29.36	745.8	29.89	759.3	85.1	29.5	27	e.			3		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	29.97	761.3	30.08	763.9	79.7	26.5	59	ese.			1		5	nw.	se.	0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.02	737.1	30.04	763.0	80.8	27.1	39	sse.			1	2 c	k	wnw.		0	0		M. André, Director.
Mans, Normal School	29.85	758.3	30.15	765.9	73.8	23.2	71	e.			3		2		ene.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.76	755.8	30.02	762.4	84.7	29.3	49	s.			1		2		sse.	0	0		M. Stephan, Director.
Montlouis	24.95	633.6	29.79	756.6	69.8	21.0	49	e.	13.0	5.8				e.		0.157	4.0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.88	758.9	30.00	761.9	82.4	28	51	s.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.27	743.4	30.01	762.2	74.8	23.8	61	n.			1	2 ck	0	ne.		0	0	slightly cl'dy	M. Hasse, Director
Nantes, Observatory	29.92	760.0	30.09	764.2	77.5	25.3	54	ne.			1-3	4 c; ck	0	wnw.		0	0		M. Larocque, Director.
Perpignan, Observatory	29.89	759.3	30.00	761.9	86.1	26.7	45	e.	7.4	3.3			2			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.46	545.2			57.6	14.2		sw.			1		1		sw.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	28.98	736.0	30.00	762.1	73.4	23	44	n.			1		0			0	0	clear	M. Taillen.
Puy de Dôme Obs'y, Summit	25.28	642.2			58.5	14.7	62	se.			3		0			0	0	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	29.87	758.7	29.90	759.5	82.0	27.8	100	ene.			2		0			0	0	clear	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.80	757.0	30.01	762.2	81.3	27.4	54	e.			3		5		w.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.97	710.3	30.00	762.0	81.3	27.4	35	se.			1		0			0	0	clear	M. Seger, Director.
Rouen, Normal School	30.14	765.2	30.17	766.4	70.5	21.4	67	ne.			2		5	se.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.95	760.6	30.11	764.8	75.6	24.2	57	ene.			2		1		ese.	0	0		M. Renou, Director.
Toulouse, Observatory	29.37	746.0	30.10	764.4	90.0	32.2	29	se.			2		0			0	0	clear	M. Bailland, Director.
Tours	29.86	758.4	30.04	762.9	75.2	24.0	57	ne.			1	1 c	0	se.		0	0	clear	M. de Tastes.
Versailles, Observatory	29.63	752.7	30.13	765.2	72.0	22.2	58	ne.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.84	757.8	30.13	765.2	73.4	23.0	59	ne.			2		4		e.	0	0		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.71	729.1	30.10	764.6	74.3	23.5	60	ne.			2		4	ne.		0	0		Prof. Jnedt.
Bamberg	29.29	744.0	30.15	765.7	73.0	22.8	55	ne.			2	0	1 s			0	0		Prof. Dr. Hoh.
Berlin	29.97	761.3	30.15	765.8	63.7	17.6	68	nw.			2		10			0	0		Prof. Dr. Arndt.
Breslau	29.63	752.5	30.16	766.0	68.9	20.5	70	nw.			2		8			0.016	0.4		Royal University Obs'y.
Carlsruhe	29.69	754.1	30.12	765.1	68.4	20.2	74	e.			2		5	e.		0	0		Albert Senz.
Cassel	29.45	748.1	30.17	766.2	70.2	21.2	59	nw.			4		5	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.77	756.1	30.13	765.2	71.8	22.1	64	nnw.			1		2			0	0		Physical Society.
Friedrichshafen	28.65	727.8	30.05	763.2	69.1	20.6	75	sw.			2		2	ne.		0	0		Wilhelm, Chief Tel.
Hamburg	30.08	764.1	30.18	766.5	66.0	18.9	63	nnw.			3		0			0	0		E. Preller.
Kiel	30.11	764.9	30.13	765.3	68.9	20.5	59	wnw.			4		0			0	0		Prof. Dr. G. Karsten
Leipsic, Astrom'l Obs'y	29.78	756.3	30.19	766.8	66.2	19.0	63	nw.			3		9	wnw.		0	0		H. Leppig, Asst.
Magdeburg	29.99	761.7	30.17	766.4	65.7	18.7	68	wsw.			2	0	8 ks		w.	0	0		Dr. Assmann.
Memel	30.00	762.1	30.05	763.3	69.6	20.9	75	wnw.			2	6 cs	0			0	0		Issermann.
Munich	28.30	718.9	30.17	766.4	73.9	23.3	49	ne.			4		3	n.		0	0		Dr. C. Lang.
Neufahrwasser	30.03	762.7	30.04	763.1	74.1	23.4	62	ene			1		7	nnw.		0	0		A. Lothes.
Neustadt, Palatinate	29.56	750.8	30.09	764.2	73.0	22.8	68	nne.			2		3	nne.		0	0		Dicknether.
Stuttgart	29.18	741.1	30.04	763.1	70.7	21.5	74	n.			3		2	n.		0	0		Prof. Dr. Schoder.
Wustrow	30.11	764.7	30.13	765.4	65.5	18.6	77	wnw.			4	0	0			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.52	749.8	29.89	759.2	81.9	27.7		s.			1.0		8			0.012	0.3		Schmidt & Wourlisch
INDIAN.																			
Kurrachee	29.62	752.2	29.66	753.5	83.7	28.7	75	wsw.	28.0	12.5			5		w.	0	0	d..clouds	
Deesa	29.14	740.0	29.60	751.8	88.3	31.3	52	sw.	24.0	10.7			2		ssw.	0	0	d. clouds	
Bombay	29.68	753.8	29.71	754.7	81.6	27.6	82	w.	8.0	3.6			10		w.	0.15	3.8	overcast	
Poona, Yarrowda	27.85	707.5	29.71	754.6	76.2	24.6	69	wsw.	16.0	7.2			9	w.	w.	0	0	d. clouds	
Trichinopoly	29.48	748.6	29.75	755.7	86.7	30.4	54	wnw.	2.0	0.9			10			0	0	overcast	
Bellary	28.20	716.2	29.63	752.7	88.4	31.3	49	sw.	7.9	3.5			7			0	0	d. clouds	
Belgaum	27.18	690.4	29.74	755.4	69.5	20.8	90	wsw.	8.0	3.6			9		sw.	0	0	showery	
Lahore	28.73	729.6	29.44	747.7	96.0	35.6	47	w.	4.0	1.8			3			0.81	20.6	d. clouds	
Roorkee	28.54	725.0	29.48	748.9	94.2	34.6	77	nw.	1.9	0.8			3			0	0		
Agra	28.95	735.4	29.50	749.3	92.9	33.8	52	w.	6.0	2.7			2		w.	0	0	d. clouds	
Nagpur	28.57	725.7	29.60	751.8	85.3	29.6	63	wnw.	4.0	1.8			9		w.	0	0	d. clouds	
Jubbulpore	28.27	718.1	29.61	752.1	82.8	28.2	75	s.	1.7	0.8			8		s.	0	0	gloomy	
Lucknow	29.14	740.2	29.51	749.6	85.1	29.5	81	calm	0.3	0.1			10	ese.		0.09	2.3	gloomy	
Allahabad	29.22	742.2	29.52	749.9	88.2	31.2	75	calm	0	0			10			0.03	0.8	overcast	
Patna	29.40	746.8	29.59	751.5	77.3	25.2	95	sse.	4.2	1.9			10	sse.	sse.	2.74	69.7	overcast	
Hazaribagh	27.60	701.1	29.61	752.0	75.6	24.2	91	n.	4.1	1.8			10		n.	0.41	10.4	thund'rst'm	
Cuttack	29.53	750.0	29.61	752.0	83.6	28.7	81	s.	4.0	1.8			8			0.07	1.8	d. clouds	
Calcutta, Alipore	29.59	750.7	29.58	751.2	81.3	27.4	91	ne.	4.0	1.8			9		s.	0.21	5.3	d. clouds	
Dhubri	29.49	749.1	29.61	752.1	80.3	26.8	87	calm	0	0			9		ssw.	1.84	46.7	gloomy	
Chittagong	29.60	751.8	29.69	754.1	78.2	25.7	92	se.	7.3	3.3			9			0	0	d. clouds	
Sibsagar	29.30	744.1	29.61	752.0	82.2	27.9	90	sse.	4.0	1.8			10	w.	w.	0.10	2.5	d. clouds	
Jeypore	28.13	714.6	29.53	750.0	92.2	33.4	41	wnw.	4.8	2.2			3		wnw.	0	0	d. clouds	
Zanzibar, Africa	29.96	761.0			80.2	26.8	51	se	10.6	4.7			0			0	0	blue sky	
ITALIAN.																			
Udine	29.66	753.4	30.06	763.4	80.2	26.8	39	sw.	0.7	0.3			3			0	0		Prof. Giovanni Clodig.
Milan	29.56	750.9	30.06	763.5	81.9	27.7	45						3			0	0		Prof. Schiaparelli.
Padua	29.93	760.3	30.04	763.0	81.5	27.5	44	ene.	4.3	1.9			3	se.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.16	740.7	30.04	762.9	76.6	24.8	52	e.	2.5	1.1			4	ne.		0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Genoa	29.85	758.3	30.04	763.0	81.5	27.5	45	se.	3.1	1.4			4	e.		0.114	2.9		Prof. G. M. Garibaldi.
Mondovi	28.20	716.2	30.03	762.8	75.7	24.3	39	nw.			4		0			0	0		Prof. D. C. Bruno.
Pesaro	29.99	761.7	30.04	762.9	77.7	25.4	52	nne.	8.7	3.9			2			0	0		Prof. Luigi Guidi.
Florence	29.74	755.5	29.99	761.7	85.3	29.6	28	n.			2		1	nnw.		0	0		Prof. Costantino Pittier
Leghorn	29.90	759.4	29.98	761.5	79.9	26.6	62	n.	0.7	0.3			2			0	0		Prof. P. Monte.
Rome	29.80	756.8	29.97	761.1	86.4	30.2	27	wnw.	1.3	0.6			1			0	0		Prof. P. Tachini.
Lecce	29.73	755.1	29.97	761.2	77.4	25.2	53	ene.	10.5	4.7			7			0	0		Prof. C. de Giorgi
Cosenza	29.11	739.4	29.97	761.1	81.0	27.2	73	sw.	3.1	1.4			7	w.		0.322	8.2		Prof. D. Conti.
Cagliari	29.78	756.5	29.99	761.8	81.3	27.4	50	se.			2		1			0	0		Prof. A. Pacinotti.
Palermo	29.76	755.8	30.00	761.9	79.5	26.4	59	ne.	9.8	4.4			1			0	0		Prof. G. Giacciatore.
Syracuse	29.90	759.5	29.95	760.6	81.7	27.6	62	s.	2.5	1.1			3	wnw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.47	748.4	29.97	761.1	83.8	28.8	45	ne.	2.5	1.1			4			0	0		Prof. T. Brioschi.
Stelvio	22.32	567.0			50.0	10.0	67	e.			2		8			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.46	570.4			51.1	10.6	77	e.			1		8			0.045	1.1	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.94	760.5	29.97	761.2	67.9	19.9	83	s.	3.8	1.7		0	0			0	0	clear.	K. Ogawa.
Hakodate	29.91	759.7	29.92	759.9	62.8	17.1	91	calm	0	0			0			0	0	clear	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.78	756.4	29.95	760.7	75.6	24.2	77	nne.	1.2	0.5		0	4 s ck			0	0	fair	M. Fojima.
Nagasaki, I. M. Obs'y	29.66	753.4	29.86	758.4	76.9	24.9	83	calm	0	0		0	1 s			0	0	clear	
Nemuro	29.89	759.2	29.95	760.8	60.8	16.0	90	calm	0	0		0	0			0	0	clear	
Niigata	29.93	760.2	29.96	761.0	70.8	21.6	73	ne.	1.3	0.6		0	0			0	0		M. Morita.
Nobiru	29.90	761.1	29.98	761.5	69.0	20.6	80	sw.	6.8	3.0		0	1 s			0	0	fair	H. Midzushima.
Osaka	29.88	758.9	29.89	759.2	76.5	24.7	77	e.	2.8	1.2		1 ck	0 scs			0	0	cloudy	
Sapporo					64.0	17.8	84	nw.	1.2	0.5			0			0	0	clear	
Tokei Obs'y, Yeddo	29.94	760.5	30.02	762.4	69.5	20.8	77	ese.	3.0	1.3		0	1 ck			0	0	fair	The Staff.
Wakayama	29.88	758.9	29.93	760.2	74.2	23.4	89	e.	4.3	1.9		1	0			0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.79	756.7	29.98	761.5	71.8	22.1	61	w.	17.5	7.8		0	4 k		w	0.10	4.1	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72?	603.1?	29.96	761.1	58.1	14.5	89	calm	0	0		10 ck	0	e.		0.315	8.0	misty	Prof. Vicente Fernandez.
Leon.†	24.43	620.5	30.13	765.3	57.6	14.2	95	nne.			1	6 e	3 k;n	sw.	sw.	0.441	11.2	very cloudy	Prof. M. Leal.
Mazatlan	29.73	755.1	29.99	761.0	75.5	24.2	84	ene.	1.0	0.8		8 ck	0	e.		0.138	3.5	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.5	30.20	767.1	54.5	12.5	87	calm			0	5 ck	5 kn	ne.		0.225	5.7	covered	The Staff.
Morelia	24.26	616.2	30.32	770.1	59.0	15.0	53	se.			2	0	1		s.	0	0	clear.	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.99	609.4	29.97	761.3	60.1	15.6	94	calm			1		10 kn		ssw.	0.250	6.4	covered	M. V. de Leon, M. E
Puebla, Catholic Institute	23.43	595.1	30.26	768.5	52.7	11.5	93	calm			0		10		s.	0.630	16.0	covered	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D.
Zacatecas	22.54	572.6	30.09	764.3	58.0	14.0	76	n.	9.0	4.0		2 cs	0	s.		0	0	clear	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	30.23	767.8	30.23	767.8	66.2	19.0		e.			3					0.008	0.2		
Groningen	30.15	765.8	30.21	767.2	66.0	18.9		n.			1					0	0		
Helder	30.22	767.6	30.22	767.6	62.2	16.8		w.			1					0	0		
Hellevoetsluis	30.21	767.4	30.21	767.4	67.5	19.7	58	ene.			2					0	0		
Utrecht	30.18	766.5	30.22	767.7	66.4	19.1	64	nne.			2		2			0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.95	760.6	30.01	762.2	58.3	14.6	83	s.	20	9			10			0.039	1.0		
Brono	29.00	751.9	29.64	752.9	55.0	12.8	74	sw.	29	13			10			0.453	11.5	raining	
Christiania	29.74	755.4	29.88	758.9	74.3	23.5	55	s.	11	5			5			0	0		
Glæsvær	29.25	742.9	29.27	743.5	54.7	12.6		calm			0		10						
Lodingen	29.29	744.0	29.34	745.2	52.9	11.6	83	sw.			8		10			0.201	5.1	rain & fog	
PORTUGUESE.																			
Angra, Azores					72.0	22.2	67	ne.	13.0	5.8			2			0	0		Dr. J. A. Sampaio.
Campo Major	28.98	736.1	29.92	760.0	85.6	29.8	37	s.	2.5	1.1			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.01	762.3	30.10	764.5	73.2	22.9	65	sw.	1.3	0.6			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.68	753.9	30.04	762.9	70.5	21.4	64	ssw.	7.4	3.3			2			0	0		The Staff.
Ponta Delgada, Azores	30.07	763.8	30.14	765.6	73.4	23.0	62	nne.	5.6	2.5			4	ese.		0	0		
Saint Paul de Lorando	29.82	757.5	30.03	762.7	69.4	20.8	80	calm			0		1	nne.		0	0		
Serra da Estrella	25.34	643.7	29.90	759.5	66.2	19.0	53	ese.	13.0	5.8			7			0	0		
RUSSIAN.																			
Akmolinski	28.50	724.0	29.52	749.8	75.9	24.4	34	wnw.	9	4		0	5 k			0	0		Major K. Lasarew.
Archangel	29.03	752.7	29.05	753.2	68.5	20.3	49	wsw.	13	6		0	8 ks			0	0		Capt. Sselliwerstow.
Astrakhan	29.93	760.1	29.84	758.0	84.2	29.0	31	ene.	7	3		0	0			blank	blank		Capt. Wisganow.
Barnaul	29.01	736.9	29.48	748.8	76.8	24.9	43	nw.	4	2			5			0.008	0.2		Meteorological Obs'y.
Dorpat	29.67	753.7	29.91	759.6	71.1	21.7	66	wnw.	7	3		6 cs	0			0	0	light clouds	Observatory.
Ekaterinburg	28.80	731.5	29.72	755.0	67.3	19.6	50	n.	4	2		0	5 k;ks			0	0		Meteorological Obs'y.
Irkutsk																			
Kasan	29.52	749.7	29.76	756.0	82.9	28.3	39	calm	0	0		0	3 k			0	0		Observatory.
Kertch	29.78	756.3	29.80	756.8	75.7	24.3	57	w.	9	4		0	5 k			0	0		Lagorio & Sastyrez.
Kieff	29.13	739.8	29.72	755.0	75.6	24.2	50	nw.	7	3		ck	6 ks						Observatory.
Lugan	29.43?	747.5?	29.63?	752.6?	66.2	19.0	82	sw.	13	6			9			0.177	4.5		Meteorological Obs'y.
Moscow	29.30	744.1	29.74	755.4	76.1	24.5	55	s.	7.8	3.5		0	0 ks						Meteorological Obs'y.
Nikolaiev	29.80	756.8	29.87	758.6	75.6	24.2	57	nnw.	9	4		cs	7 k			0.020	0.5	light clouds	Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.56	750.7	29.70	754.3	75.4	24.1	93	calm	0	0			10 n			0.134	3.4	raining	Physical Observatory.
St. Petersburg	29.82	757.4	29.84	757.8	73.0	22.8	63	nw.	16	7		3 ck	0			0	0		Central Physical Obs'y.
Semipalatinsk	28.89	733.8	29.50	749.2	82.0	27.8	48	nw.	4	2			10			inap.	inap.		Major Lasarew
Tashkend, Laboratory	28.06	712.7	29.49	749.1	93.2	34.0	43	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.45	722.5	29.77	756.1	89.1	31.7	24	nw.	22	10		0	0			0.035	0.9		Physical Observatory.
Vladivostock	29.88	759.0	29.95	760.7	69.8	21.0	83	se.	4	2		0	6 k						
Warsaw	29.60	751.8	30.00	762.1	72.5	22.5	60	nnw.	9	4		0	1 k						Astronomical Obs'y.
Wilna	29.53	750.1	29.93	760.2	76.6	24.8	55	nnw.	7	3			2			0	0		Berg, Assistant.
Yeniseisk	29.63	752.5	29.90	759.4	80.6	27.0	63	sw.	7	3			4			0.004	0.1		M. O. Marks.
SCOTTISH.																			
Monach Lt.			29.95	760.7	59	15.0	94	sw.			6		10			0	0	hazy	J. Youngclause.
North Uist			29.83	757.7				sw.			6		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.88	758.9	29.98	761.5	82.0	27.8	70	s.	3.4	1.5		0	1 k			0	0	misty	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.80	758.4	29.92	759.9	93.9	34.4	41	s.	2.9	1.3		0	0			0	0	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.07	687.6	29.82	757.3	80.0	30.0	37	s.	11.0	4.9		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.78	705.6	29.80	758.4	90.5	32.5	30	s.	7.2	3.2		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.85	758.1	30.00	762.0	90.1	32.3	62	se.	2.7	1.2		0	0			0	0	clear	Olayo Diaz, Director
Oviedo	29.33?	745.0?	30.21	767.2?	63.5	17.5	96	n.	3.3	1.5			10 n			0	0	cloudy	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.06	738.2	29.95	760.6	65.3	18.5	82	sw.	3.8	1.7			10			0.024	0.6	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.08	764.0	30.14	765.6	75.3	24.1	80	se.	3.6	1.6		1 ck	0	se.		0.04	1.0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.74	755.5	29.80	757.0	78.9	26.1	87	sw.	11.0	4.9			10 n		sw.	0.850	21.0	light rain	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.96	760.9	30.06	763.4	73.8	23.2	65	w.	7.9	3.5		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.03	762.8	30.12?	765.1	82.4	28.0	85	calm	0	0			10 kn		n.	0	0	overcast	Manuel Maese.
Tuguegarao, Philippine Id's	29.65	753.1	29.79	756.7	77.9	25.5	90	nw.	0	0			10 n		w.	0.30	7.0	raining	José L. Yrasterza.
SWEDISH																			
Haparanda	29.55	750.5	29.59	751.5	62.2	16.8	83	sw.			6		5			0	0		
Umea	29.69	754.0	29.74	755.3	66.9	19.4	50	w.			4		7			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Hernosand	29.68	753.8	29.73	755.1	70.9	21.6	62	ssw.			2		2			0	0		
Stockholm	29.68	753.9	29.86	758.4	77.0	25.0	44	wsw.			2		0			0	0		
Wisby	29.82	757.5	29.88	759.0	69.8	21.0	70	w.			4		0			0	0		
Sub-series.																			
Upsala	29.71	754.7	29.80	756.9	76.3	24.6	50	sw.	12.5	5.6			2	wsw.		0	0		S. G. Fineman.
SWISS.																			
Geneva	28.68	728.4	30.06	763.4	71.6	22.0	62	n.			3		0			0	0	clear	The Observatory
TURKISH.																			
Constantinople			29.96	760.9	80.1	26.7	47	ne.	11	5.0			3		n.	0	0		The Observatory.
Valona			30.10	764.5	81.7	27.6		sw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.85	758.3	82.8	28.2	57	wnw.			2	0	7 s		w.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.98	761.5	30.06	763.5	67.5	19.7	59	s.	3	1.3		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.31	744.5	29.95	760.7	55	12.8	86	w.	10	4.5		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.16	639.1	29.88	758.9	59	15.0	90	e.	2	0.9		0	0			0.22	5.6	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	27.10	688.3	29.84	757.9	66	18.9	39	sw.	1	0.4		8 ck	0	sw.		0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.96	735.6	30.11	764.8	67.0	19.4	87	e.	6	2.7			10 s			0.07	1.8	cloudy	H. Hall.
Atlantic City, New Jersey	30.12	765.0	30.13	765.3	66.7	19.3	63	nw.	5	2.2		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.96	761.0	30.15	765.8	74	23.3	82	ne.	2	0.9		6 k	0	sw.		0.03	0.8	fair	John Healy.
Baltimore, Maryland	30.14	765.5	30.19	766.8	66	18.9	63	nw.	4	1.8		2 c	0	w.		0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.10	764.5	30.12	765.0	69.0	20.6	61	w.	7	3.1		0	0			0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.38	720.8	29.92	760.0	56	13.3	80	nw.	1	0.4		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.12	688.8	29.90	759.4	77	25.0	54	sw.	4	1.8		0	9 s		s.	0	0	cloudy	S. Wheaton.
Behring Island, Behring Sea	30.06	763.5	30.08	764.0	54.2	12.3		s.	11	4.9			10 ks			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.14	714.7	29.89	759.2	62	16.7	84	calm	0	0		0	2 s		w.	0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.02	762.5	30.05	763.3	70	21.1	76	w.	9	4.0		0	0			0.15	3.8	clear	J. T. Elker.
Boise City, Idaho	27.21	691.1	29.96	761.0	65	18.3	47	nw.	4	1.8		4 c	0	calm		0	0	fair	B. E. Light.
Boston, Massachusetts	29.88	758.9	30.02	762.5	66.0	18.9	68	w.	7	3.1		0	hz.			0.01	0.3	clear	O. B. Cole.
Brownsville, Texas	30.00	762.0	30.04	763.0	73.8	23.2	90	ne.	2	0.9		3 cs	4 s		s.	0	0	fair	M. McCarty.
Buffalo, New York	29.33	745.0	30.06	763.5	62.1	16.7	84	sw.	7	3.1		0	4 ks		sw.	0.52	13.2	fair	Clarence Weaver.
Buford, Fort, Dakota	28.01	711.4	29.95	760.7	57	13.9	77	ne.	1	0.4		0	sk.		calm	0	0	fair	A. H. Bell.
Burlington, Vermont	29.68	753.9	29.97	761.2	61.3	16.3	77	s.	9	4.0		0	2 s		w.	0.41	10.4	clear	G. C. Schaeffer.
Cairo, Illinois	29.79	756.7	30.18	766.6	65.6	18.7	80	calm	0	0		0	0			0	0	clear	W. H. Ray.
Campo, California	27.48	698.0	29.98	761.5	59	15.0	78	sw.	1	0.4		6 ck	2 s	se.		0	0	cloudy	W. H. Glendenon
Cape Henry, Virginia	30.15	765.8	30.17	766.3	74	23.3	59	n.	10	4.5		0	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.12	765.0	30.15	765.8	70.0	21.1	62	nw.	12	5.4		1 c	0	n.		0	0	clear	W. E. Smith.
Cape Mendocino	29.40	746.7						n.	24	10.7			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	30.10	764.5	30.12	765.0	83	28.3	74	nw.	1	0.4		0	4 k		n.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.32	744.7	30.11	764.8	57.5	14.2	71	w.	8	3.6		7 c	0	w.		0	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.04	763.0	30.09	764.3	80	26.7	79	ne.	9	4.0		0	5 s		ne.	0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.29	744.0	30.12	765.0	68.0	20.0	90	e.	1	0.4			10 a			0.02	0.5	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.33	745.0	30.14	765.5	65.0	18.3	70	n.	2	0.9		8 cs	sk.	w.		0	0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.15	613.4	29.85	758.2	47.2	8.4	54	nw.	6	2.7		2 c	0	nw.		0	0	clear	E. McGovern.
Chicago, Illinois	29.40	746.7	30.08	764.0	58.3	14.6	66	s.	4	1.8		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.15	765.8	30.17	766.3	68	20.0	70	n.	11	4.9		0	0			Inap.	Inap.	clear	C. F. Dickens.
Cincinnati, Ohio	29.54	750.3	30.18	766.6	59.8	15.4	81	s.	3	1.3		3 c	fg.	sw.		0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.42	747.3	30.14	765.5	59.9	13.8	75	sw.	10	4.5		1 c	0			0.15	3.8	clear	J. B. Newlin.
Coleman City, Texas	28.32	719.3	30.06	763.5	58	14.4	93	se.	1	0.4		0	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.32	744.7	30.15	765.8	54	12.2	86	w.	2	0.9		4 cs	fg.			0	0	fair	D. Cuthbertson.
Concho, Texas	28.21	716.5	30.07	763.8	59	15.0	86	calm	0	0		0	0			0	0	clear	W. W. McConihe.
Custer, Fort, Montana	26.79	680.5	29.85	758.2	59	15.0	50	e.	2	0.9		0	6 s		calm	0	0	fair	W. B. Lamar.
Davenport, Iowa	29.45	748.0	30.08	764.0	59	15.0	70	sw.	7	3.1		4 cs	0	sw.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.28	642.1	29.94	760.5	59	15.0	78	calm	0	0		0	0			0.80	20.3	clear	J. Williams.
Dayton, Washington T'y	28.42	721.9	30.14	765.5	55.8	13.2	70	sw.	1	0.4		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.46	646.7	29.89	759.2	52	11.1	69	w.	4	1.8		6 c	0	n.		0	0	fair	G. W. Scott.
Decatur, Texas					68	20.0	73	ne.	7	3.1		0	2 s			0	0	clear	D. J. Carr.
Delaware Breakwater, Del	30.14	765.5	30.16	766.1	68	20.0	66	n.	16	7.2		0	1 k			0	0	clear	T. S. Townsend.
Denison, Texas	29.31	744.5	30.09	764.3	64.4	18.0	90	s.	4	1.8		3 ck	0			0	0	clear	J. McGlone.
Denver, Colorado	24.83	630.7	29.85	758.2	58.5	14.7	55	s.	4	1.8		1 c	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.17	740.9	30.05	763.3	60	15.6	75	sw.	6	2.7		0	7 ks		sw.	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.40	746.7	30.09	764.3	55.9	13.3	86	sw.	6	2.7		0	0			0.07	1.8	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.47	697.7	29.95	760.7	59	15.0	67	s.	4	1.8		1 k	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.36	745.7	30.05	763.3	58.3	14.6	65	sw.	5	2.2		6 k	0	w.		0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.05	737.9	29.77	756.1	64	17.8	78	sw.	8	3.6			10 s		sw.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.33	745.0	30.12	765.0	67.1	19.5	93	calm	0	0		0	0			1.82	46.2	clear	F. Belford.
Eagle Rock, Idaho	25.37	644.4	29.92	760.0	68	20.0	55	sw.	7	3.1		0	0			0.07	1.8	clear	J. M. Clifford.
Eastport, Maine	29.88	758.9	29.95	760.7	57.0	13.9	93	s.	4	1.8			fg.		s.	0.04	1.0	dense fog	D. C. Murphy.
Elliott, Fort, Texas	27.33	694.2	29.97	761.2	55	12.8	69	se.	2	0.9		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.38	670.0	29.98	761.5	62	16.7	78	ne.	2	0.9		0	0			0.14	3.6	clear	J. F. Marshall
Erie, Pennsylvania	29.38	746.2	30.09	764.3	60	15.6	87	sw.	8	3.6		3 k	0	w.		0.34	8.6	clear	Peter Wood.
Escanaba, Michigan	29.23	742.4	29.87	758.7	61	16.1	72	sw.	10	4.5		4 c	0	nw.		0	0	fair	George Heathcote.
Fredericksburg, Texas	28.38	720.8	30.09	764.3	63	17.2	84	nw.	2	0.9		0	0			0.04	1.0	clear	Frank Halwegler.
Galveston, Texas	30.02	762.5	30.07	763.8	76	24.4	90	ne.	6	2.7		10 cs	0			0	0	cloudy	E. O'C. Macnemey.
Grand Haven, Michigan	29.40	746.7	30.05	763.3	61.0	16.1	84	s.	13	5.8		0	0			0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.31	642.9	29.88	758.9	64.9	18.3	65	ne.	3	1.3		0	0			0.44	11.2	clear	Robert O. Lord.
Hatteras, North Carolina	30.14	765.5	30.16	766.1	80	26.7	62	ne.	14	6.3		3 c	hz.			0	0	clear	R. M. Crawford.
Helena, Montana	25.82	655.8	29.91	759.7	76	24.4	54	sw.	4	1.8		5 k	0	sw.		0	0	fair	N. C. Smith.
Henrietta, Texas	29.16	740.7	30.16	766.1	69.0	20.6	66	calm	0	0		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.56	725.4	29.90	759.4	53.1	11.7	90	se.	4	1.8		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.36	745.7	30.13	765.3	60	15.6	75	sw.	1	0.4		0	hz.			0	0	dense haze	O. Schutze
Indianola, Texas	30.05	763.3	30.08	764.0	74.0	23.3	84	n.	4	1.8		5 ck	1 ks	w.	s.	0.43	10.9	fair	I. A. Reed.
Jacksboro, Texas	28.96	735.6	30.08	764.0	63	17.2	84	e.	1	0.4		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.08	764.0	30.12	765.0	83	28.3	72	calm	0	0		2 cs	0			Inap.	Inap.	clear	J. W. Smith.
Keogh, Fort, Montana	27.45	697.2	29.88	758.9	60	15.6	52	ne.	2	0.9		4 c	sk.			0	0	fair	A. Schneider.
Keokuk, Iowa	29.43	747.5	30.06	763.5	65.0	18.3	68	sw.	6	2.7		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.10	764.5	30.12	765.0	86.0	30.0	72	calm	0	0		0	3 k			0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.15	765.8	30.17	766.3	77.0	25.0	64	ne.	20	8.9		hz.	0			0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.13	739.9	30.14	765.5	62.3	16.8	79	ne.	4	1.8		3 c	4 k		sw.	0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.23	742.4	29.98	761.5	62	16.7	67	se.	5	3.6		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.22	742.2	30.08	764.0	59	15.0	75	nw.	2	0.9		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.29	744.0	30.10	764.5	70.5	21.4	40	w.	3	1.3		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.82	757.4	30.13	765.3	62	16.7	93	calm	0	0		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.64	752.8	30.03	762.7	67.1	19.5	78	e.	1	0.4		0	5 s			0	0	fair	Egbert van Dyke.
Louisville, Kentucky	29.59	751.6	30.14	765.5	61	16.1	87	calm	0	0			10s; fg			0	0	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.50	749.3	30.17	766.3	65.8	18.8	68	w.	1	0.4		3 c	0			0	0	clear	Lewis Duane.
Macon, Fort, North Carolina	30.12	765.0	30.13	765.3	77	25.0	69	n.	10	4.5		hz.	0			0	0	clear	F. P. Chaffee.
Madison, Wisconsin	29.05	737.9	30.03	762.7	59	13.3	74	sw.	10	4.5		2 cs	0	w.		0	0	fair	C. A. Shaw.
Maginnis, Fort, Montana	25.62	650.7			61	16.1	29	ne.	7	3.1		4 cs	0			0	0	fair	H. W. Dodge.
McKavett, Fort, Texas	27.91	708.9	30.12	765.0	62	16.7	92	calm	0	0		0	0			0.58	14.7	clear	J. E. Thatcher.
Marquette, Michigan	29.11	739.4	29.82	757.4	61	16.1	65	sw.	15	6.7			10 s		sw.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.80	756.9	30.13	765.3	63	17.2	84	ne.	4	1.8		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.32	744.7	30.05	763.3	57	13.9	69	sw.	8	3.6		0	fg.			0	0	clear	W. Line.

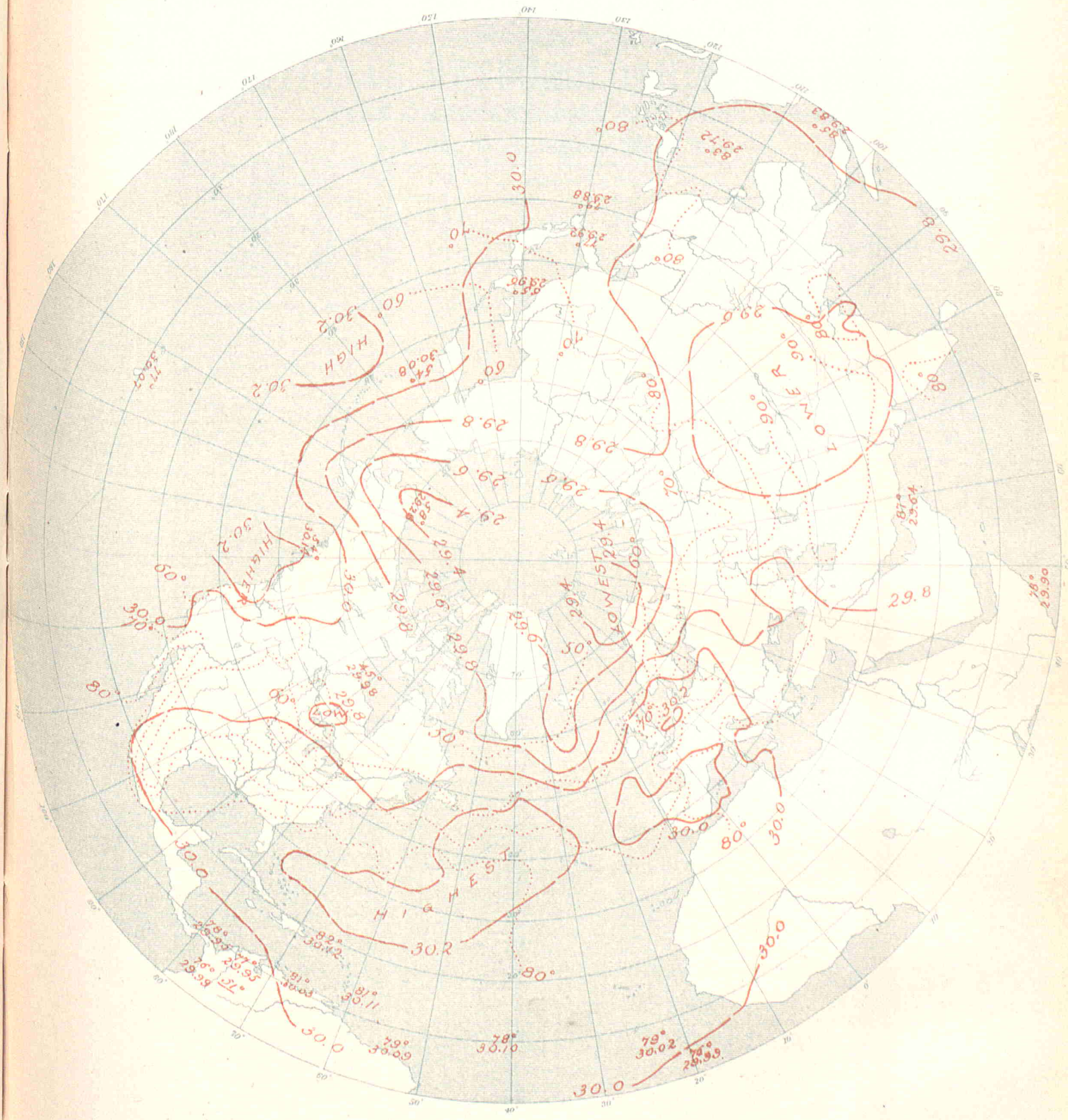
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.78	680.2	30.00	762.0	64	17.8	78	ne.	1	0.4	.....	0	0	.....	.....	0.04	1.0	clear	J. H. Jones.
Mobile, Alabama	30.04	763.0	30.08	764.0	75.5	24.2	90	ne.	2	0.9	.....	5c;cs	1 ks	sw.	.....	0.09	2.3	fair	C. A. Read.
Montgomery, Alabama	29.87	758.7	30.10	764.5	73	22.8	97	e.	3	1.3	.....	.....	10 s	.....	se.	0.04	1.0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.87	733.3	29.84	757.9	62	16.7	84	nw.	4	1.8	.....	4 k	hz.	nw.	.....	0	0	fair.	H. Bessant.
Morgantown, W. Virginia	29.21	741.9	30.21	767.3	62.5	16.9	81	calm	0	0	.....	4 cs	0	sw.	.....	0	0	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.80	604.5	29.88	758.9	38.0	3.3	96	nw.	39	17.4	.....	.....	fg.	.....	nw.	0.40	10.2	dense fog	J. G. Linsley.
Nashville, Tennessee	29.56	750.8	30.12	765.0	60.5	15.8	87	n.	1	0.4	.....	10 cs	fg.	sw.	.....	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.95	761.0	30.07	763.8	65	18.3	63	w.	5	2.2	.....	0	0	.....	.....	inap.	inap.	clear.	J. H. Sherman.
New London, Connecticut	30.00	762.0	30.05	763.3	70	21.1	66	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.01	762.2	30.06	763.5	77.0	25.0	79	s.	2	0.9	.....	8 c	sk.	.....	.....	0.35	8.9	cloudy	L. Dunne.
Newport, Rhode Island	29.99	761.7	30.04	763.0	68.3	20.2	67	w	12	5.4	.....	0	0	.....	.....	0.04	1.0	clear	W. McGillivray.
New York, New York	29.95	760.7	30.12	765.0	64	17.8	68	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.15	765.8	30.18	766.6	77	25.0	60	ne.	7	3.1	.....	0	hz.	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.10	688.3	29.90	759.4	57.6	14.2	69	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.25	708.3	30.29	769.4	54.0	12.2	86	sw.	2	0.9	.....	1 k	1 s	w.	.....	0	0	clear	J. Dascomb.
Oogianmie, Pt. Barrow, Alas.	29.26	743.2	29.28	743.7	57.5	14.2	95	sse.	14	6.3	.....	.....	10 s	.....	sw.	0.02	0.5	cloudy	P. H. Ray.
Omaha, Nebraska	28.88	733.5	30.02	762.5	62.2	16.8	81	s.	8	3.6	.....	0	7 k	.....	.....	0	0	fair	A. Pollak.
Oswego, New York	29.69	754.1	30.01	762.2	63.5	17.5	81	w.	12	5.4	.....	3 k	3 n	w	w.	0.06	1.5	light rain	S. W. Beall.
Palestine, Texas	29.57	751.1	30.11	764.8	67.0	19.4	84	ne.	6	2.7	.....	4 k	0	ne.	.....	0	0	fair	L. M. Pindell.
Pensacola, Florida	30.05	763.3	30.08	764.0	78.4	25.8	90	n.	2	0.9	.....	3 cs	1 s	w.	.....	1.19	30.2	fair	M. McGauran,
Philadelphia, Pa	30.05	763.3	30.15	765.8	66.5	19.2	59	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.07	459.0	29.86	758.4	37	2.8	61	ne.	14	6.3	.....	0	1 s	.....	ne.	0	0	clear	L. M. Dey.
Ploche, Nevada	24.17	613.9	29.87	758.7	66.2	19.0	58	calm	0	0	.....	5 k	0	calm	.....	0	0	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	29.37	746.0	30.16	766.1	58.5	14.7	81	s.	2	0.9	.....	3 c	0	sw.	.....	0	0	clear	J. B. Turton.
Poplar River, Montana	27.83	706.9	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.08	764.0	30.09	764.3	78.6	25.9	78	s.	9	4.0	.....	.....	10 n	.....	sw.	0.02	0.5	light rain	M. Hermann.
Port Huron, Michigan	29.40	746.7	30.06	763 5	55.0	12.8	78	sw.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	W. O. Bailey.
Portland, Maine	29.89	759.2	29.94	760.5	67.0	19.4	68	nw.	11	4.9	.....	0	0	.....	.....	0.02	0.5	clear	W. W. Eichelberger.
Portland, Oregon	30.24	768.1	30.31	769.9	56.0	13.3	86	se.	2	0.9	.....	.....	10 s	.....	s.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	80	26.7	01	ne.	12	5.4	.....	0	4 ks	.....	.....	0	0	fair	F. S Coburn.
Prescott, Arizona	24.88	631.9	29.86	758.4	64	17.8	81	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass	29.98	761.5	30.01	762.2	69.5	20.8	78	w.	4	1.8	.....	0	0	.....	.....	0.04	1.0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.12	765.0	30.13	765.3	78.5	25.8	82	e.	7	3.1	.....	1 c	8 ks	w.	sw.	0.40	10.2	threatening.	W. J. Evans.
Red Bluff, California	29.54	750.3	29.90	759.4	76.1	24.5	33	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.89	759.2	30.13	765.3	74	23.3	85	n	2	0.9	.....	.....	10 s	.....	n.	0.12	3.0	cloudy	H. S. Miles.
Rochester, New York	29.39	746.5	30.04	763.0	59	15.0	81	w.	12	5.4	.....	1 c	hz.	w.	.....	0.15	3.8	clear	E. W McGann.
Roseburg, Oregon	29.72	754.9	30.26	768.6	51	10.6	86	ne.	3	1.3	.....	0	6 s	.....	n.	0	0	fair.	J. J. Nanry.
Sacramento, California	29.80	756.9	29.87	758.7	67.4	19.7	63	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.55	750.6	30.13	765.3	60.0	15.6	93	se.	4	1.8	.....	2 c	0	w.	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.04	737.6	29.88	758.9	60.0	15.6	87	sw.	11	4.9	.....	7 k	2 s	ne.	.....	0	0	cloudy	P. F. Lyons
St. Vincent, Minnesota	28.98	730.1	29.83	757.4	60	15.6	93	nw.	6	2.7	.....	3 c	hz.	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.72	653.3	29.91	759.7	73	22.8	64	calm	0	0	.....	.....	10 ks	.....	sw.	0.22	5.6	threatening.	J. Craig.
San Antonio, Texas	29.40	746.7	30.09	764.3	65.0	18.3	90	calm	0	0	.....	5 cs	0	.....	.....	0.15	3.8	fair	T. J. Kenan.
San Diego, California	29.90	759.4	29.97	761.2	67.8	19.9	90	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.46	748.3	30.12	765.0	57.8	14.3	74	w.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	M. H. Perry.
Sandy Hook, New Jersey	30.08	764.0	30.12	765.0	66.0	18.9	68	w.	14	6.3	.....	0	0	.....	.....	inap.	inap.	clear	B. A. Blundon.
San Francisco, California	29.84	757.9	29.91	759.7	56	13.3	83	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	N. Gerom.
Santa Fé, New Mexico	23.37	593.6	29.86	758.4	58	14.4	62	n.	3	1.3	.....	4 k	1 s	.....	.....	0	0	fair	H. U. Jones.
Savannah, Georgia	30.02	762.5	30.11	764.8	79	26.1	77	nw.	2	0.9	.....	2 c	0	.....	.....	0.38	9.7	clear	H. W. Ford.
Shaw, Fort, Montana	26.34	669.0	29.87	758.7	71	21.7	64	w.	4	1.8	.....	3 k	0	w.	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.87	758.7	30.10	764.5	70	21.1	78	n.	4	1.8	.....	0	9 s	.....	n.	0.05	1.3	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.90	734.0	30.08	764.0	58.3	14.6	83	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Silver City, New Mexico	24.41	620.0	29.87	758.7	53	11.7	64	s.	2	0.9	.....	0	4 s	.....	calm	0	0	fair	J. B. Wallace.
Sitka, Alaska	30.08	764.0	30.14	765.5	54	12.2	93	calm	0	0	.....	.....	10 n	.....	.....	0.14	3.6	heavy rain	J. J. McLean.
Smith, Fort, Arkansas	29.66	753.4	30.12	765.0	62.3	16.8	84	e.	4	1.8	.....	5 ck	0	e.	.....	0	0	fair	J. B. Campbell.
Smithville, North Carolina	30.08	764.0	30.12	765.0	81	27.2	69	e.	7	3.1	.....	3 c	1 k	w.	w.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.06	712.7	30.06	763.5	61	16.1	62	sw.	7	3.1	.....	0	0	.....	.....	inap.	inap.	clear	D. Moore.
Springfield, Illinois	29.46	748.3	30.12	765.0	58.8	14.9	76	sw.	7	3.1	.....	1 c	0	n.	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.93	760.2	30.06	763.5	69.0	20.6	66	w.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	T. S. Outram.
Springfield, Mo	28.72	729.5	30.11	764.8	58	14.4	83	se.	6	2.7	.....	6 k	0	se.	.....	0	0	fair	J. B. Marbury.
Starkville, Miss	29.64	752.8	30.11	764.8	68	20.0	84	n.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.12	714.2	29.90	759.4	57	13.9	86	nw.	2	0.9	.....	0	sk.	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.12	688.8	30.06	763.5	53.7	12.1	100	w.	4	1.8	.....	0	0	.....	.....	0.43	10.9	clear	J. O'Dowd.
Thomas Camp	27.27	692.6	29.89	759.2	68	20.0	76	s.	.....	.....	1	0	0	.....	.....	0	0	clear	
Thatcher's Island, Mass	29.95	760.7	30.00	762.0	62.5	16.9	73	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.42	747.3	30.09	764.3	60	15.6	75	sw.	1	0.4	.....	0	0	.....	.....	inap.	inap.	clear	A. Buell.
Tucson, Arizona	27.56	700.0	29.90	759.4	73	22.8	82	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.82	757.4	30.18	766.6	62.5	16.9	53	w.	18	8.0	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.14	740.1	30.08	764.0	66	18.9	93	calm	0	0	.....	0	0	.....	.....	0.10	2.5	clear	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	72.2	22.3	68	w.	.....	.....	1	3 cs	4 s	s.	sw.	0	0	fair	D. Brooks.
Vicksburg, Mississippi	29.83	757.7	30.07	763.8	70	21.1	84	ne.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.56	623.8	29.90	759.4	63.0	17.2	52	nw.	4	1.8	.....	.....	10 k	.....	.....	0	0	cloudy	T. M. Ambler.
Washington, D. C.	30.00	764.3	30.20	767.1	65.4	18.6	68	w.	2	0.9	.....	1 c	0	w.	.....	0	0	clear	F. M. M. Beall.
West Las Animas, Colorado	26.08	662.4	29.83	757.7	58.5	14.7	66	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa	29.53	750.0	30.11	764.8	62.5	16.9	74	w.	6	2.7	.....	.....	8 ks	.....	w.	0.07	1.8	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.08	764.0	30.13	765.3	78	25.6	62	ne.	5	2.2	.....	5 c;k	0	.....	.....	0	0	fair	Samuel A. Haney.
Winnemucca, Nevada	25.72	653.3	29.95	760.7	64.5	18.1	28	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.69	728.7	29.0	761.0	57	13.9	69	ne.	2	0.9	.....	3 cs	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.72	754.9	29.86	758.4	81.0	27.2	74	calm	0	0	.....	4 ck	4 s	sw.	.....	0	0	cloudy	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	51.0	10.6	81	n.	4	1.8	.....	.....	10ks;s	.....	ne.	0.05	1.3	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W.I	30.10	764.5	30.11	764.8	81	27.2	95	ne.	.....	.....	.....	.....	10 ks	.....	.....	0	0	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.96	761.0	29.99	761.7	76	24.4	90	calm	0	0	.....	.....	10 ks	.....	calm	0.20	5.1	threatening.	J. I. Plume.
Havana, Cuba†	30.06	763.5	30.12	765.0	77	25.0	82	se.	1.2	0.5	.....	0	0	.....	.....	0.09	2.3	clear	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	78.2	25.7	89	calm	0	0	.....	0 ck	4 s	.....	e.	0.36	9.1	cloudy	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	74	23.3	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa	29.96	761.0	30.04	763.0	81.5	27.5	78	e.	12	5.4	.....	0	2 ks	.....	se.	0.43	10.9	clear	F. M. Everett.
Paranaribo, S. A.	30.09	764.3	30.09	764.3	79	26.1	91	e.	.....	.....	2	4 c	0	e.	.....	0.250	6.3	.....	Dr. C. J. Herng.
Puerto Berrio, U. S. Col'mba	29.39	746.5	29.95	760.7	77	25.0	89	calm	.....	.....	0	5 ck	3 k	calm	s.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	98	ne.	.....	.....	2	8 ck	0	se.	.....	1.08	27.4	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alas*†	29.62	752.3	29.68	753.9	50	10.0	100	calm	.....	.....	0	.....	fg	.....	.....	0.09	2.3	dense fog	W. J. Fisher.
St. Thomas, W. I.	30.06	763.5	30.20	767.1	84	28.9	72	e.	.....	.....	.....	1 ck	3 k	.....	e.	0	0	fair	Aug. Walloe.
York Factory, B. A.	29.92	760.0	29.98	761.5	45.0	7.2	92	n.	15	6.7	.....	3 k	2 s	n.	n.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, N. 21° 13′ W. 33° 20′	30.15	765.8	78	25.6	68	ne.			1-2		4							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.90	759.4	81	27.2	74	nw.			3		4					2	nw.	d. clouds.
H. M. S. Amethyst, Santos Bay, Brazil	30.32	770.1	66.5	19.2	92	calm			0		0					2	sw.	blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.93	760.2	76	24.4		n.			3		6	n.						d. clouds.
H. M. S. Arab, Jask, Persia	29.54	750.3	87	30.6	86	ssw.			1		2	s.						misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.24	768.1	57.5	14.2		se.			2-4		5	e.						squally.
H. M. S. Champion, Wrangel Bay, Corea			66	18.9	84	calm			0		3							d. clouds.
H. M. S. Cleopatra, N. 44° 32′ E. 138° 14′	29.96	761.0	65	18.3	100	calm			0		0							blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	30.05	763.3	57	13.9	69	wsw.			3-4		8							squally.
H. M. S. Diamond, S. 10° 15′, E. 161° 42′	29.91	759.7	82	27.8	83	calm			0		0							blue sky.
H. M. S. Dido, N. 17′, 21° W. 72° 50′	30.12	765.0	82	27.8		e.			5-6		7	e.				3	e.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.10	764.5	80	26.7	86	ssw.			1-2		3	ssw.						d. clouds.
H. M. S. Emerald, N. 46° 00′ W. 14° 00′	29.96	761.0	64.5	18.1	100	e.			2-3		5	e.				2	e.	d. clouds.
H. M. S. Fantome, N. 17° 06′, W. 76° 05	30.04	763.0	84	28.9		ene.			6		5	ene.				3	ene.	d. clouds.
H. M. S. Flying Fish, N. 32° 44′, E. 129° 52′	29.72	754.9	81.5	27.5	89	n.			3		8					2	nw.	d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.01	762.2	58.5	14.7	90	se.			2		10							drizzling.
H. M. S. Garnet, N. 45° 45′, W. 17° 20′	29.99	761.7	67	19.4	84	ene.			1		7							d. clouds.
H. M. S. Griffon, N. 46° 55′, W. 58° 40′	30.05	763.3	50.5?	10.3?	78	sw.			3		10							misty.
H. M. S. Iron Duke, N. 43° 15′, E. 134° 54′	29.95	760.7	69	20.6	95	calm			0		0							blue sky.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.97	761.2	81.3	27.4	89	calm			0		4							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.01	762.2	54	12.2		se.			1									d. clouds.
H. M. S. Magpie, N. 35° 07 , E. 128° 40′	29.92	760.0	76.5	24.7	69	ne.			1-2		0							blue sky.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.89	759.2	79.5	26.4	74	nnw.			2		1							blue sky
H. M. S. Northampton, Halifax, Nova Scotia	29.94	760.5	62	16.7	100	ese.			3									foggy.
H. M. S. Orontes, N. 35° 30′ E. 17° 12′	30.00	762.0	77.5	25.2	95	w.			1		0					1	wsw.	blue sky.
H. M. S. Pegasus, N. 1° 17′, E. 103° 52′	29.83	757.7	85	29.4	75	calm			0		2							d. clouds.
H. M. S. Sappho, Honolulu, Sandwich Island	30.07	763.8	77	25.0	82	calm			0		3							d. clouds.
H. M. S. Swiftsure, S. 50° 40′, W. 77° 00′	30.16	766.1	44	6.7	92	ssw.			4-6		7	sse.				5	ssw.	showery.
H. M. S. Sylvia, Montevideo, Uruguay	29.97	761.2	51	10.6	100	nne.			2		10							raining.
H. M. S. Tenedos, N. 49° 55′ W. 55° 28′	30.13	765.3	55	12.8	93	ene.			1		9							d. clouds.
H. M. S. Triumph, S. 38° 59′, W. 55° 39′	29.98	761.5	46	7.8	92	nw.			1		5	wnw.				8	wnw.	foggy.
H. M. S. Tyne, N. 46° 08′, W. 9° 18′	30.06	763.5	66	18.9	90	nne.			3		5					2	nne.	misty.
H. M. S. Woodlark, N. 25° 15′, E. 57° 50′	29.55	750.6	87.5	30.8	69	s.			2-3		2	ese.				3	se.	misty.
Portuguese Naval.																		
Rio Lima, N. 13° 50′, W. 20° 22′	30.07	763.8	81.5	27.5	88	nw.			2		3			11 h'r	11 h'r	3		raining.
Tamega, Macao, China	29.71	754.5	85.1	29.5	78	e.			4		10		e.	2 h'r	2 h'r			raining.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.00	762.0	79	26.1	86	se.	2	0.9			5		sw.	0.06	1.5			fair.
Navy Yard, Portsmouth, N. H.	29.99	761.7	64	17.8	68	nw.	5	2.2			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.84	757.9	71.5	21.9	69	calm			0		0			0.12	3.0			clear.
Adams, Mare Island, Cal			61	16.1	82	sw.			2		2			0	0	sm'h		fair.
Alaska, S. 6° 11′ W. 110° 00′	30.01	762.2	73	22.8	85	ese.			3		5		se.	0	0	long	s.	fair.
Alliance, N. 43° 04′, W. 69° 45′	29.97	751.2	67	19.4	84	nw.			2		8			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan*	29.90	759.4	75	23.9	77	se.			2		2		se.					fair.
Brooklyn, Rio de Janeiro, Brazil	30.42	772.7	69	20.6	95	nw.	3	1.3			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.07	763.8	65	18.3	73	wsw.	10	4.5			0			0	0			hazy.
Constellation, N. 39° 04′, W. 72° 30′*	30.12	765.0	74	23.3	63	nnw.			3		0					sm'h		clear.
Essex, Coquimbo, Chili	30.08	764.0	55	12.8	80	ne.			1		0?					sm'h	ne.	overcast?
Franklin, Norfolk, Va	30.17	766.3	74	23.3	81	ene.	8.4	3.8			2		n.	0	0			fair.
Galena, N. 23° 58′, W. 21° 42′	30.07	763.8	78	25.6	91	ne.			3		0					mod.		clear.
Independence, Navy Yard, Mare Island, Cal	29.94	760.5	60	15.6	?	sw.			2		0			0	0			clear.
Iroquois, Magdalena Bay, Cal	30.06	763.5	71	21.7	90	nw.			1		2		nw.	0	0			fair.
Kearsarge, Norfolk, Va	30.18	766.6	75	23.9	86	ne.			2		2							clear.
Lackawanna, Callao, Peru*	29.96	761.0	60	15.6	88	se.			1		10							misty.
Lancaster, Villafranca, France*	30.00	762.0	82	27.8	71	ssw.			2		2		calm	0	0	sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	29.94	760.5	60	15.6	100	ene.			1		10		ene.	mod.	mod.	sm'h		rainy.
Michigan, Chicago, Illinois	30.04	763.0	63	17.2	57	sw.			1		0							hazy.
Minnesota, off New York, N. Y.	30.13	765.3	68	20.0	70	w.	1	0.4			0							clear.
Monocacy, Che Foo, China *	29.80	756.9	79	26.1	91	s.			3		8					sm'h		fair.
New Hampshire, Newport, R. I.	30.08	764.0	69	20.6	75	w.			2		10?		s.			sm'h		clear ?
Nipsic, Villafranca, France*	30.01	762.2	79	26.1	66	ssw.			2		0					sm'h		clear.
Onward, Callao, Peru	30.13	765.3	58	14.4	94	se.			2		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.85	758.2	80	26.7	70	ene.			3		8		nne.					fair.
Passaic, Washington, D. C.	30.19	766.8	67	19.4	?	sw.			2		0							clear.
Pensacola, Panama, Panama*	29.82	757.4	78	25.6	91	nw.	7	3.1			10					sm'h		cloudy.
Portsmouth, N. 37° 48′, E. 1° 23′*	29.99	761.7	79	26.1	78	sse.			1		2					sm'h		clear.
Powhatan, Norfolk, Va	30.17	766.3	76	24.4	68	ne.			1		2		nw.					clear.
Quinnebaug, Alexandria, Egypt	29.86	758.4	80	26.7	74	nnw.			3		0					sm'h		clear.
Ranger, Mare Island, Cal	29.94	760.5	66	18.9	64	sw.			1-2		0			0	0			clear.
Richmond, Yokohama, Japan*	29.92	760.0	75	23.9	68	se.			2		5		s.	0	0			fair.
Saratoga, N. 41° 37′, E. 5° 55′	30.01	762.2	73	22.8	90	sw.			1		0			0	0	sm'h		clear.
St. Louis, League Island, Pa	30.33	770.4	66	18.9	68	w.			2		0			0	0			clear.
Swatara, N. 23° 30′, E. 117° 45′*	29.56	750.8	83	28.3	79	ne.			4		10		ne.			mod.	ne.	cloudy.
Tennessee, N. 43° 00′, W. 69° 39′	29.99	761.7	69	20.6	95	wsw.	15	6.7			0			0.05	1.3			clear.
Vandalia, Portsmouth, N. H*	29.96	761.0	65	15.3	73	n.			2		0							clear.
Wabash, Boston, Mass	30.01	762.2	67	19.4	64	wnw.	7	3.1			0			0	0			clear.
Wachusetts, Fort Wrangle, Alaska†	30.39	771.9	53	11.7	93	e.			1		8		calm	0	0	sm'h		cloudy.
Wyoming, Port Royal, S. C*	30.10	764.5	77	25.0	82	nne.	4	1.8			2		calm	0	0			clear.
Yantic, N. 42° 55′ W. 69° 37′	29.98	761.5	67	19.4	84	wsw.			3		2					sm'h		clear.
Merchant Marine.																		
Allan Line.																		
S. S. Grecian, N. 43° 59′ W. 9° 14′*	29.97	761.2	65	18.3		calm			0		9		s.	0	0	sm'h		cloudy.
S. S. Polynesian, N. 55° 54′ W. 27° 11′*	29.51	749.5	62	16.7		nnw.			4		8		n.	9 h'r	9 h'r	mod.	wnw.	cloudy.
S. S. Scandinavian, N. 45° 33′, W. 56° 32′	30.02	762.5	61	16.1		s.			2		10			0	0	light	s.	foggy.
S. S. Waldensian, Glasgow, Scotland *	30.04	763.0	57	13.9		var.			2		5?			0	0			cloudy.?
American Steamship Company.																		
S. S. British Crown, N. 42° 41′, W. 59° 55′†	30.15	765.8	71	21.7		s.			4		0			0	0	sm'h		dense haze.
S. S. Indiana, Philadelphia, Pa†	30.25	768.3	66	18.9	90	wsw.			3		2		w.					cloudy.?
S. S. Lord Clive, Philadelphia, Pa*†	30.06	763.5				calm			0		0			0	0			fine.
S. S. Lord Gough, N. 51° 12′, W. 15° 16′	30.07	763.8	61	16.1		sse.			5		2		s.	0	0	mod.	se.	fair.
S. S. Ohio, Philadelphia, Pa.†	30.08	764.0	63	17.2	94	w.			2		0							fair.
Amsterdam Line.																		
S. S. Jason, N. 43° 54′, W. 40° 55′*	30.29	769.4	69.8	21		w.			2	4 ck						1	w.	clear.
Anchor Line.																		
S. S. Alexandria, Palermo, Sicily	29.99	761.7	79	26.1		ne.			3		0			0	0			clear.
S. S. Assyria, N. 49° 30′, W. 14° 00′†	30.09	764.3	62	16.7		ese.			3		10		ese.	0	0	sm'h		cloudy.
S. S. Bolivia, N. 46° 22′, W. 46° 14′*†	30.28	769.1	62	16.7		sw.			2		fg			0	0	long	sw.	dense fog.
S. S. Dorian, Boston, Mass *	29.86	758.4																
S. S. Ethiopia, N. 48° 20′ W. 40° 20′	30.18	766.6	64	17.8	100	w.			3		10		w.	2 h'r	2 h'r	sli't	wnw.	hazy.
Atlas Line.																		
S. S. Allsa, Colon, U. S. C.†	30.02	762.5	78	25.6	82	nw.			3		5		ne.	4 h'r	4 h'r	long	ne.	fair.
S. S. Alene, N. 12° 50′, W. 75° 34′†	29.87	758.7				e.			5		4		e.	0	0	h'vy	e.	hazy.
S. S. Alpin, Maracaibo, Venezuela	29.87	758.7				e.			2		3		ese.	2 h'r	2 h'r			hazy.
S. S. Antillas, Mayaguez, Porto Rico, W. I.†	30.00	762.0	88	31.1		var.			1		2							clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 41° 43′ E. 37° 50′	30.12	765.0	49	9.4	85	nnw.			4		2							blue sky.
S. Baroda, N. 2° 27′, W. 20° 47′	30.14	765.5	76.4	24.7	86	sse.			3		0							d clouds.
S. S. Cipero, N. 45° 16′, W. 25° 17′	30.10	764.5	64.2	17.9	73	nnw.			4		7							d. clouds.
Bk. Commewyne, N. 44° 14′, W. 32° 17′	30.22	767.6	70.4	21.3	84	nnw.			4		8							d. clouds.
S. S. City of Agra, S. 40° 16′, W. 5° 50′	30.37	771.4	52.2	11.2	83	wsw.			5		8							d. clouds.
S. S. Gordon Castle, N. 39° 50′, W. 69° 17′	30.06	763.5	74.2	23.4	90	n.			3		2							blue sky.
S. S. Humboldt, S. 34° 37′, W. 58° 04′	29.91	759.7	58.1	14.5		ne.			3		0							raining.
May Hulse, N. 39° 28′, W. 38° 56′	30.34	770.6	80	26.7	58	nne.			3		3							blue sky.
S. S. Minho, Maceio, Brazil	30.23	767.8	78.7	25.9	87	se.			2		3							showery.
S. Oamaru, N. 6° 00′, W. 24° 30′	30.12	765.0	78.7	25.9	73	sse.			4		2							misty.
S. S. Mertola, N. 36° 53′, W. 7° 42′	30.02	762.5	73.1	22.8	83	wsw.			2		0							blue sky.
S. S. Rosetta, N. 4° 08′, E. 100° 13′	29.83	757.7	82.5	28.1	75	wnw.			4		3							d. clouds.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 24° 11′, W. 169° 17′*†	29.96	761.0	82	27.8	87	nw.			2		5					sm'h		fair.
CROMWELL LINE.																		
S. S. Hudson, N. 24° 22′, W. 82° 50′ †	30.17	766.3	80	26.7		ese.			2		3		e.	0	0	mod.	e.	fair.
CUNARD LINE.																		
S. S. Bothnia, N. 41° 01′, W. 62° 30′	30.07	763.8	80	26.7	95	s.			3		3		s.	0	0		s.	clear.
S. S. Gallia, N. 43° 14′ W. 49° 49′	30.29	769.4	61	16.1	100	calm			0		fg			0	0	sm'h		foggy.
S. S. Marathon, N. 36° 44′, W. 6° 38′	30.00	762.0	82	27.8		ne.			1		1		ne.	0	0	sm'h	ne.	clear.
S. S. Scythia, N. 50° 58′, W. 13° 14′	30.02	762.5	64	17.8	88	sse.			1		1		se.	0	0			fine.
DONALDSON LINE.																		
S. S. Colina, N. 46° 07′. W. 40° 39′†.	30.30	769.6				wnw.			2		2		wnw.			mod.	n.	fair.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N 44° 20′, W. 45° 38′†	30.19	766.7	73.4	23		wsw.			1	c		wsw.		0	0	sm'h	w.	hazy.
S. S. Ville de Marseilles, N. 39° 29′, W. 52° 44′*†	30.20	767.1	77	25.0		ese.			5		2		se.	0	0	long	e.	clear.
GUION LINE.																		
S. S. Arizona, N. 44° 02′, W. 54° 50′	30.19	766.8	60	15.6		ssw.			2		0			0	0	sm'h		hazy.
S. S. Wisconsin, N. 52° 30′, W. 5° 45′	30.13	765.3	59	15.0		sse.			3		10		e.	0	0	slight	se.	hazy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Climbria, N. 49° 36′ W. 25° 47′	30.00	762.0	62	16.7		wsw.			3		10		w.	0 h'r	0 h'r	sm'h	w.	hazy.
S. S. Herder, N. 42° 40′, W. 50° 33′*	30.01	762.2				sw.			2		4			0	0	sm'h	sw.	foggy.
S. S. Silesia, Hamburg, Germany	30.14	765.5	70.2	21.2		wsw.			4		0			0	0			fair.
S. S. Westphalia, N. 40° 42′, W. 69° 50′	29.97	761.2	64	17.8	100	nnw.			3		1		nw.	0	0	sm'h	e.	fair.
S. S. Wieland, N. 49° 34′, W. 22° 47′	30.05	763.3	63	17.2		wnw.			2		3		e.	0	0.	2	ene.	fair.
LAMPERT AND HOLT'S LINE.																		
S. S. Archimedes, N. 40° 49′, W. 51° 00′†.	30.35	770.9				ese.			4		1		ese.	0	0	mod.	ese.	fine.
S. S. Hevelius, Buenos Ayres, S. A*†	30.04	763.0	52	11.1		ne.			6		10		n.	12 h'r	12 h'r			raining.
LEYLAND LINE.																		
S. S. Bulgarian, N. 46° 21′, W. 40° 30′*	30.33	770.4				nw.			3		10		nw.	0	0			overcast.
MALLORY LINE.																		
S. S. City of San Antonio, Matanzas, Cuba*†	30.26	768.6				calm			0		0			0	0	sm'h		fair.
S. S. Colorado, N. 25° 20′. W. 85° 14′†	30.12	765.0	81	27.2		se.			3		2		se.	0	0	small	se.	clear.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 36° 10′ W. 5° 21′*†	30.05	763.3	76	24.4	86	wsw.			3		2		w.	0	0	sm'h	ne.	fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 48° 38′, W. 22° 22′†	30.12	765.0	64	17.8	89	w.			2		0			0	0	sm'h		clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, Para, Brazil †	29.97	761.2				var.			2		8		var.	5 h'r	5 h'r			heavy rain.
MORGAN LINE.																		
S. S. Chalmette, N 27° 12′ W. 86° 50′†	30.14	765.5	83	28.3		s.			2		1		w.	0	0	sm'h		clear.
S. S. New York, N. 25° 28′, W. 84° 30′ †	30.23	767.8	83.0	28.3		se.			5		4		e.			sm'h		clear.
NATIONAL LINE.																		
S. S. Canada, Eddystone, England †	30.19	766.8				e.			1		10		e.	0	0	sm'h	n.	fine.
S. S. Denmark, N. 46° 25′, W. 33° 42′	30.21	767.3	67	19.4		nw.			3		10		wnw.	0	0	slight	nw.	cloudy.
S. S. England, N. 51° 05′, W. 14° 58′	30.14	765.5				ssw.			5		5		sw.	0	0	slight	sw.	fine.
S. S. Erin, Liverpool, Eng	30.09	764.3	74	23.3		ssw.			4		6		ssw.	0	0			cloudy.
S. S. The Queen, N 40° 32′ W 64° 18′	30.03	762.7	74	23.3		sw			3		2		sw.	0	0	short	sw.	clear.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York N. Y †	30.11	764.8	65	18.3	78	wsw.			5									clear.
S. S. City of Puebla, N. 37° 33′, W. 74° 50′†	30.17	766.3	77	25.0		nw.			7		2		nw.			light	nw.	fair.
S. S. City of Washington, Havana, Cuba, W. I.*†	30.15	765.8	86	30.0		calm			0		2		ene.	0	0	sm'h		fine.
NORTH GERMAN LLOYD.																		
S. S. America, N. 45° 38′, W. 34° 23′*	30.26	768.6	69.5	20.8	82	nw.			5		8		nw.	0	0	mod.	nw.	cloudy.
S. S. Graf Bismark, N. 22° 10′, W. 20° 10′	30.04	763.0	78.8	26.0		n.			3		42		n.	0	0	mod	ne.	cloudy?
S. S. Hohenshaufen, N. 40° 22′, W. 67° 46′	30.01	762.2	73.4	23.0		s.			4		3		sw.	0	0	3	s.	clear.
S. S. Koln, N 43° 51′, W. 44° 13′*	30.37	771.4	98.0?	36.7?	50	s.			2		5		se.	0	0	sm'h	s.	clear.
S. S. Main, N. 50° 09′, W. 3° 46′	30.08	764.0				nne.			4		6?		nne.	0	0	sm'h	nnw.	clear?
S. S. Neckar, N. 45° 43′, W. 38° 10′	30.32	770.1	68.5	20.3	95	nw.			3		9?		n.	0	0	mod.	n.	clear?
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, Yokohama, Japan†	30.25	768.3	78	25.6	80	calm			0		2			0	0			clear.
S. S. Coptic, N. 35° 43′, E. 141° 14′	30.00	762.0	73.5	23.1	95	ne.			3		4		ne.	0	0		ne.	d. clouds.
S. S. Gaelic, N. 30° 05′, E. 128° 40′ †	29.98	761.5	79	26.1	91	ne.			2		5		ne.			sm'h		fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	30.10	764.5				nw.			3		0			0	0			smoky.
S. S. Seminole, N. 32° 55′, W. 78° 54′†	30.17	766.3	84	28.9	91	calm			0		0			1 h'r	1 h'r	sm'h		clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 37° 58′ W. 122° 51′	29.96	761.0	58	14.4	88	se.			1		0					sm'h		hazy.
PACIFIC COAST STEAMSHIP COMPANY																		
S. S. Ancon, N. 36° 52′, W. 122° 13′.†	29.88	758.9	54	12.2	93	nw.			3		0					mod.	nw.	clear.
S. S. City of Chester, off Point Buchon, Cal*†	29.92	760.0	52	11.1	100	calm			0		5					sm'h	nw.	cloudy.
S. S. Idaho, N. 45° 03′, W. 124° 55′†	30.34	770.6	68	20.0	90	wnw.			3		8		nw.	2 h'r	2 h'r	mod	wnw.	cloudy.
S. S. State of California, Portland, Oregon †	30.35	770.9	55	12.8	?	e.			2		10		ne.					overcast.
S. S. Victoria, San Francisco, Cal†	29.82	757.5	55	12.8	87	calm			0					0	0	sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 33° 56′, E. 158° 10′	29.83	757.7	60	15.6	88	se.			3		1		se.	0	0	long	e.	clear.
S. S. City of New York, Sydney, N. S. W†	30.02	762.5	52	11.1	79	sw.			1		8		sw.	2 h'r	2 h'r			cloudy.
S. S. City of Pekin, N. 47° 36′ W. 176° 55′†	30.39	771.9	52	11.1	100	wsw.			3		10		wsw.	0	0	sm'h		foggy.
S. S. City of Rio de Janeiro, Mazatlan, Mexico*†	30.22	767.6	82	27.8	79	ne.			2		7		ne.	0	0	light	sw.	clearing.
S. S. City of Tokio, Hong Kong, China†	29.65	753.1	80	26.7	91	ese.			4		10		ne.	20 h'r	20 h'r			rainy?
S. S. Colima, N 20° 10′, W. 105° 48′†	29.96	761.0	82	27.8	71	ne.			4		6?		ene.	0.15	3.8	mod.	con.	clear?
S. S. Colon, Aspinwall, Panama†	29.95	760.7	78	25.6		nw.			2		10		ne.	2 h'r	2 h'r	sm'h		overcast.
S. S. Costa Rica, N. 15° 44′, W. 96° 15′*	29.91	759.7	79	26.1	86	nnw.			3		hz.		sw.	0	0	small	s.	fair.
S. S. Grenada, Panama, Panama†	29.90	759.4	78	25.6	91	nw.			1		8?		n.	2 h'r	2 h'r	sm'h	nw.	clear?
S. S. Zelandia, N. 0° 34′, W. 105° 30′	30.00	762.0	81	27.2	91	e.			2		2		se.			sm'h		clear.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, St. Lucia, W. I.	30.13	765.3	83	28.3		ene.			2		10			0	0	sm'h		overcast.
RED D LINE.																		
S. S. Valencia, Puerto Cabello, Venezuela*†	30.23	767.8	81	27.2	87	ene.			2		3		ese.	1 h'r	1 h'r			fine.
RED STAR LINE.																		
S. S. Belgenland, Philadelphia, Penn †	30.21	767.3	74	23.3	90	w.			4		8		s.	0	0			fine.
S. S. Nederland, N. 40° 52′, W. 72° 35′†	29.94	760.5	69	20.6	80	wnw.			3		0			1 h'r	1 h'r	sm'h		clear.
S. S. Pennland, N. 46° 04′ W. 35° 30′	30.25	768.3				nw			3		10		n. nw.	0	0	sm'h	nw.	overcast.
S. S. Rhynland, Antwerp, Belgium*†	30.44	773.2	70	21.1	90	wnw.			2		0		wnw.	0	0			fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE—Continued.																		
S. S. Switzerland, N. 38° 47′. W. 71° 17′†	30.17	766.3				nw.			3		0			0	0	sm'h		clear.
S. S. Vaderland, N. 43° 11′, W. 42° 18′	30.08	764.0	76	24.4	82	calm			0		2		ese.	0	0	mod.		clear.
S. S. Waesland, New York, N. Y	30.04	763.0	66	18.9	64	w.			4		0			0	0			clear.
ROTTERDAM LINE.																		
S. S. Edam N. 48° 42′, W. 29° 42′	30.22	767.6	69.0	20.6	90	w.			5		10		nw.					cloudy.
S. S. W. A. Scholten, Rotterdam, Holland*	30.06	763.5	68.8	20.4	74	n.			3		2		nw.	0	0			
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, N. 23° 14′, W. 74° 19′	30.15	765.8	83	28.3		ese.			2		2		se.	0	0	gentle	se.	clear.
STATE LINE.																		
S. S. State of Florida, N. 40° 20′, W. 70° 44′	30.02	762.5	74	23.3		nnw.			2		0			0	0	sm'h		fair.
S. S. State of Indiana, N. 48° 35′, W. 43° 32′†	30.34	770.6	59	15.0		wsw.			3		8		wsw.	0	0	sm'h		foggy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 40° 58′, W. 66° 57′†	30.26	768.6	68.9	20.5	91	ssw.			2		10		ssw.	3 h'r	3 h'r	sm'h	ssw.	
WARREN LINE																		
S. S. Iowa. N. 50° 05′, W. 22° 39′*†	30.17	766.3	67	19.4		wsw.			3		8		wsw.	0	0	sm'h		cloudy.
WHITE STAR LINE.																		
S. S. Adriatic, N. 51° 06′, W. 22° 15′*†	30.13	765.3	59	15.0	88	s.			3		8		sw.	0	0	sm'h	sw.	cloudy.
S. S. Britannic, N. 41° 28′, W. 65° 31′†	30.10	764.5	74	23.3	95	calm			0		fg.			0	0	mod.	sw.	foggy.
S. S. Celtic, New York, N. Y†	30.15	765.8	72	22.2	90	w.			2		0			0	0			fine.
S. S. Republic, N. 51° 14′, W. 15° 15′†	30.21	767.3	65	18.3	84	se.			3		6		se.	0	0	mod	se.	d. clouds.
WINSOR LINE.																		
S. S. Aries, N. 42° 10′, W. 70° 00′*†	30.01	762.2				w.			5		0			2 h'r	2 h'r	sm'h		fine.
S. S. Catherine Whiting, Providence, R. I.†	30.10	764.5	76	24.4		nw.			1		0			0	0			fine.
MISCELLANEOUS.																		
Bk. Adelaide, N. 36° 42′, W. 56° 54′*†	30.24	768.1	84	28.9		ese.			1		2		ese.	0	0	mod.	se.	fair.
Bk. Alpha, N. 58° 10′, E. 5° 30′†	30.09	764.3	62	16.7		s.			2		10		sw.	0	0	sm'h		foggy.
Sch. Anna A. Holton, N. 38° 17′ W. 74° 41′†	30.11	764.8	74	23.3		nw.			1		0			½h'r	½h r	h'vy	s.	
Bk. Anna Thorman, S. 34° 44′, E. 99° 05′	29.94	760.5	50.2	10.1	74	sw.			6		5 k;n		sw.	sh'rs	shr's	long	sw.	fair.
S. S. Antonio Lopez, N. 21° 46′, W. 62° 08′*†	30.20	767.1	83	28.3	79	ene.			2		4			0	0	mod.		fair.
Bk. Argonaut, N. 41° 54′, W. 65° 19′*†	30.07	763.8	65.7	18.7		s.			2		5		s.	0	0	mod.	sw.	foggy.
Bk. Aureola, N. 8° 17′, W. 42° 03′*†	30.10	764.5	78	25.6		sw.			2		6		sw.	1 h'r	1 h'r	sm'h	sw.	fair.
Bk. B. F. Watson, N. 27° 56′, W. 38° 24′†	30.15	765.8	78	25.6		sw.			2		5		sw.	0	0	sm'h		squally.
Bk. Bergenseren. N. 44° 56′, W. 50° 18′†	30.21	767.2				s.			3		fg.		s.	0	0	2	ssw.	dense fog.
Bk. Bremen, N. 56° 00′. W. 25° 10*†	29.70	754 4				w.			6		8		w.	10 h'r	10 h'r	cross	ssw.	cloudy.
Bk. Cato, Malmö, Sweden*†	30.47	773.9				nw.			4									clear.
Bk. Celestina, N. 12° 35′ W. 24° 04′*†	30.00	762.0				nnw.			2		4		n.	0	0	r'gh	wsw.	
S. Cornelius, N. 49° 43′, W. 9° 43′*†	30.33	770.4	58.1	14.5		ese.			3		10		ese.	0	0	sm'h	ese.	cloudy.
S. Dora, S. 1° 48′ W. 23° 78′†	30.20	767.1	80.6	27.0		se.			3		4 k		se.	2 h'r	2 h'r	high	se.	hazy.
Schr. Edith R. Seward, Baltimore, Md	30.21	767.3	68	20.0		nw.			2		1		wnw.	0	0			clear.
S. E. J. Spicer, N. 40° 38′, W. 66° 20′*	30.08	764.0	74	23.3		s.			5				sw.	0	0	mod	ssw.	dense fog.
S. Enoch Train, N. 50° 55′, W. 11° 23′†	30.30	769.6				se.			2		4		se.			sm'h		fine.
Bk. Essex, N. 3° 30′, E. 47° 15′*†	29.90	759.4	78	25.6		ssw.			5		5		ssw.	0	0	mod.	ssw.	cloudy.
Bk. Franklin, N. 59° 44′, W. 4° 00′*†	30.23	767.8				sw.			6		8			0	0	mod.	sw.	cloudy.
Bk. Freya, N. 36° 43′, W. 74° 31′			83	28.3		n.			5		0			0	0	sm'h		clear.
S. Glendon, N 37° 35′, W. 56° 50′†	30.13	765.3	86	30.0		se.			3		8		se.	0	0	sm'h		fair.
Bk. Godfrey, N. 36° 22′, W. 17° 36′	30.04	763.0	69.4	20.8	91	wsw.			3-4		4		w.	8 h'r	8 h'r	sm'h	wnw.	fair.
S. Grecian, N. 14° 00′, E. 114° —′*†	29.72	754.9	83	28.3		ssw.			5		0			0	0	sm'h	sw.	clear.
Bk. Gronsvaer, N. 29° 40′, W. 37° 25′†	30.14	765.5				se.			4		4		s.	1 h'r	1 h'r	sm'h		clear.
Bk Hattie G. McFarland, Bath, Maine*†	29.95	760.7	71	21.7		wsw.			1		2		w.	0	0			fair.
Schr. Hattie Weston, N. 22° 36′, W. 69° 26′*†	30.28	769.1	85	29.4		se.			3		5		se.	0	0	long	se.	fair.
Bk. Heinrich & Tonio, N. 42° 20′, W. 29° 10′*†	30.43	772.9	68	20.0		n.			4		10 n		n.	1½h'r	1½h'r	light	ne.	cloudy.
Schr. Henry Denison, N. 37° 20′ W. 74° 45†	30.08	764.0				n.			4		4		calm			sm'h		fair.
Bk. Horace Scudder, Port of Spain, Trinidad, W. I†	30.10	764.5	82	27.8		calm					2		calm	1 h'r	1 h'r			blue sky.
S. Ivy, S. 41° 40′ W. 99° 38′†	30.87	784.1	46	7.8		se.			6		8		se.	0	0	r'gh	s.	
S. Ismir, S. 2° 17′ E. 106° 57′†	29.32	744.7							1		5			0	0	sm'h		fine.
Schr. James Slater, N. 37° 20′, W. 73° 23′*†	30.39	771.9	80	26.7		n.			1		0			0	0	short	s.	
Schr. Jennie N. Huddell, Chester, Pa†	30.09	764.3	67	19.4	90	sw.			1		0			0	0			clear.
Bk. Johanne, N. 41° 29′, W. 66° 44′*†	30.05	763.3	74	23.3		sw.			1		1			6 h'r	6 h'r	sm'h		dense fog.
Bg. John Wesley, N. 20° 00′, W. 75° 50′†	29.95	760.7				ne.			2		2			0	0	mod.	ese.	clear.
Bk. Joseph A. Ropes, S. 38° 31′, E. 6° 25′*†	30.46	773.7	54	12.2	86	wnw.			3		5		wnw.	1 h'r	1 h'r	mod.	w.	cloudy.
Bkt. Josephine, Havana, Cuba, W. I.†	30.10	764.5	78	25.6	73	ne.			1		0			4 h'r	4 h'r			clear.
S. S. Lamperts, N. 37° 55′, W. 0° 15′*	30.00	762.0	76.5	24.7	81	s.			1		0							misty.
Light House Tender, Laurel, Key West, Florida†	30.17	766.3	86	30.0		sse.			1		6		sse.	0	0			fair.
Bk. Liberia, N. 34° 09′, W. 67° 35′.*	30.06	763.5	82	27.8	91	calm			0		2			0	0			
Schr. Maggie Abbott, Port au Prince Hayti†	30.09	764.3												0	0			
S. Minnie N. Gerow, N. 41° 19′, W. 20° 08′.†*	29.96	761.0				ne.			3		5		ne.			sm'h	ne.	fair.
S. M. P. Grace, S. 37° 55′, W. 91° 05′*	30.17	766.3	49	9.4		se.			6				se.	hail	hail	high	se.	
Bk. National Eagle, N. 38° 38′, W 32° 40′†	30.22	767.6				nne.			3		1		nne.	0	0	sm'h		fair.
S. S. Nebo, Porman, Spain*†	29.90	759.4				calm			0		0			0	0			clear.
S. Oracle, N. 37° 14′, W. 61° 34′*	30.05	763.3	88	31.1	75	calm			0	9 c		calm						fine.
S. Orealla, N. 17° 35′, W. 35° 48′*	30.05	763.3				e.			3		1		ese.	0	0	mod.	ene.	clear.
S.Paramita, San Francisco, Cal†	29.80	756.9	68	20.0		wnw.			7		fg		wnw.	0	0			clear.
Bk. Rosebud, S. 38° 26′, E. 48° 40*†	30.20	767.1	60	15.6	76	n.			6		8		n.	0	0	short	ne.	
S. St. Francis, N. 33° 23′, W. 49° 57′†	30.11	764.8	80	26.7		e.			6		8		e.	0.25	6.3	long	nw.	squally.
Bk. Sunbeam, N. 39° 13′, W. 36° 06′†	30.39	771.9	76	24.4	85	ene.			4		5		ne.	0	0	sm'h		fair.
S. S. Sunbeam, N. 44° 38′ W. 80 12′	29.98	761.5	64	17.8	83	ne.			2		3		nne.			3	nne.	misty.
S. Sovereign of the Sea, S. 45° 37′, W. 60° 42′*†	29.66	753.4	45	7.2	92	w.			2		9		wnw.	0	0	sm'h	s.	cloudy.
Bg. Teneriffe, N. 26° 50′, W. 79° 38′	30.08	764.0				w.			1					0	0	sm'h		fine.
Bk. Truro, N. 39° 10′, W. 73° 20′*†	30.08	764.0				nw.			3		0			1 h'r	1 h'r	sm'h		clear.
U. S. F. C. S. S. FishHawk, N. 39° 55′, W. 69° 47′†	30.27	768.8	80	26.7	86	nw.			3		3		calm	0	0	mod	nw.	clear.
Schr. Victor Ping, N. 30° 00′, W. 68° 40′*†	30.10	764.5				w.			3		8		sw.			mod.	sw.	cloudy.
Bk. Vincenzo Accame, N. 38° 13′, W. 45° 46′†	30.51	775.0	80.6	27.		ese.			6		0							clear.
Schr. Viola Reppard, N. 33° 19′, W. 77° 31′†	30.08	764.0	86	30.0		calm			0		2			0	0	small	s.	
Bg. Wauburn, Azua, San Domingo, W. I*†	30.10	764.5				nnw.			3		2		nne.			mod.	sse.	¼ clouded.
Bk. Warden Law S. 55° 47′, W. 1° 30′*	29.76	755.9				s.			4				s.	0	0	sm'h	s.	fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 12, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.00	762.1	79.0	26.1	78	sw.	.....	.....	4	.....	1	.....	.....	0	0	very fair	Bouvier.
Algiers	.....	.....	29.99	761.7	84.9	29.4	44	n.	.....	.....	2	.....	2	.....	.....	inap.	inap.	fair	Thève.
La Galle	.....	.....	30.02	762.4	80.6	27.0	77	ene.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Foufrède.
Tunis	.....	.....	30.03	762.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.06	763.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Perès.
Tebessa	.....	.....	30.06	763.6	84.2	29.0	21	nw.	.....	.....	1	.....	4	.....	.....	0	0	cloudy	Rigaud.
Geriville	.....	.....	.....	.....	94.6	34.8	11	s.	.....	.....	4	.....	2	.....	.....	inap.	inap.	fair	Lonchamp.
Laghouat	.....	.....	30.12	765.1	96.8	36.0	25	w.	.....	.....	3	.....	2	.....	.....	0	0	fair	Abraham.
Biskra	.....	.....	30.10	764.4	95.4	35.2	20	nw.	.....	.....	2	.....	2	.....	.....	0	0	fair	Malau.
Australian.																			
Melbourne, Victoria	30.02	762.5	30.11	764.8	40.2	4.6	96	nw.	3	1.3	.....	.....	0	.....	.....	0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.54	750.3	30.07	763.7	76.3	24.6	44	nw.	.....	.....	1	.....	4	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.38	746.3	30.13	765.4	67.3	19.6	75	n.	2.5	1.1	.....	.....	10	.....	.....	0.008	0.2	.....	Dr. Wierzbiski.
Eperies	29.20	741.7	30.04	763.1	74.8	23.8	56	calm	.....	.....	0	cs	5 s	.....	s.	0	0	.....	Julius Mikolik.
Gratz	28.82	732.0	30.02	762.4	75.6	24.2	83	sw.	.....	.....	1	.....	3	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.62	727.0	29.98	761.5	79.7	26.5	53	w.	.....	.....	2	.....	6	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.75	730.3	30.04	763.0	73.2	22.9	66	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	The Staff.
Lemberg	29.10	739.0	30.04	763.1	72.7	22.6	66	e.	.....	.....	1	.....	7	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.95	760.7	30.06	763.4	80.6	27.0	52	wnw.	.....	.....	2	.....	5	.....	.....	0	0	.....	I. R Hydrographic Office.
Szathmar	29.54	750.3	29.95	760.8	82.4	28.0	44	n.	.....	.....	1	.....	4	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.70	756.0	30.03	762.8	76.6	24.8	77	ne.	.....	.....	1	.....	2	.....	.....	0	0	thunder	Karl Stancel.
Trieste	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Royal Academy.
Vienna	29.40	746.7	30.09	764.2	74.5	23.6	55	e.	.....	.....	1	.....	3	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.78	756.4	29.87	758.7	66.5	19.2	68	s.	16	7.2	.....	.....	2	.....	.....	0	0	blue sky	W. Boswell
Armagh, Observatory	29.66	753.4	29.89	759.2	63.7	17.6	70	s	9	4.0	.....	.....	10	.....	.....	.....	.....	misty	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.93	760.2	68.0	20.0	60	sse.	12	5.4	.....	.....	6	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.43	747.5	29.90	761.0	68.8	20.4	64	s.	4	1.8	.....	.....	8	.....	.....	.....	.....	d clouds	Thomas Mackereth.
Bradford, Yorkshire	29.55	750.6	29.95	760.7	68.8	20.4	50	se.	.....	.....	2	.....	0	.....	.....	0.01	0.3	blue sky	J. McLandsborough.
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	83.0	28.3	71	ne.	.....	.....	2	.....	0	.....	.....	.....	.....	gloomy	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	29.95	760.7	75.0	23.9	62	e.	.....	.....	0.4	.....	3	.....	.....	.....	.....	blue sky	John McLaren.
Chatham, School M. E.	29.86	758.4	29.98	761.5	71.9	22.2	67	e.	.....	.....	1	.....	2	.....	.....	.....	.....	d clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.66	753.4	29.88	758.9	.....	.....	.....	ene.	.....	.....	3	.....	4	.....	.....	.....	.....	foggy	The Staff.
Fort Napier, Natal	27.00	701.0	29.82	757.4	71.0	21.7	52	se.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.72	754.9	29.94	760.5	77.0	25.0	86	sw.	.....	.....	2	.....	8	.....	.....	.....	.....	overcast	Sergt. John Robinson.
Gibraltar, Mediterranean	29.91	759.7	29.97	761.2	78.8	26.0	79	w.	.....	.....	2	.....	7	.....	.....	.....	.....	d. clouds	Corpl. F. Norris, A. H.C
Glasgow, Observatory	29.70	754.4	29.90	759.4	64.6	18.1	73	sw.	.....	.....	1	.....	10 k	.....	.....	.....	.....	overcast	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.79	756.7	29.96	761.0	77.1	25.1	57	e.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	The Staff.
Guernsey	29.69	754.1	29.98	761.5	75	23.9	65	e.	.....	.....	1	.....	1	.....	.....	.....	.....	blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.92	760.0	29.95	760.7	74.6	23.7	56	e.	9	4.0	.....	.....	3	.....	.....	.....	.....	hazy	The Staff.
Leicester, Museum	29.71	754.6	29.90	761.0	70.8	21.6	67	s.	.....	.....	1	.....	4	.....	.....	.....	.....	d. clouds	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.01	761.2	82.6	28.1	70	se.	.....	.....	2	.....	6	.....	.....	.....	.....	d clouds	H. Keene, A. H. C.
Nassau, Bahamas	30.12	765.0	30.10	760.1	85.0	29.4	71	ne.	.....	.....	1	.....	5	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Warren Middleton.
Oxford, Radcliffe Obs'y	29.72	754.9	29.95	760.7	74.0	23.7	58	sse.	.....	.....	1	.....	2	.....	.....	.....	.....	blue sky	The Staff.
Plymouth	29.82	757.4	29.89	759.2	74.1	23.4	68	se.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.82	757.4	63.3	17.4	81	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.80	758.4	29.92	760.0	85.0	29.4	45	ne.	.....	.....	2	.....	3	.....	.....	blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.70	754.4	29.97	761.2	72.4	22.4	67	s.	.....	.....	1	.....	3	.....	.....	0	0	d. clouds	W. F. Cooper.
Silloth Rectory	29.90	759.4	29.94	760.5	66.8	19.3	69	wsw.	.....	.....	2	.....	7	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.95	760.7	67.2	19.6	60	s.	8	3.6	.....	.....	7	.....	.....	.....	.....	d. clouds	I. New.
Stratfield Turgiss	.....	.....	.....	.....	77.8	25.4	64	se.	.....	.....	3	.....	0	.....	.....	.....	.....	blue sky	Rev. C.H. Griffiths, F.M.S.
Truro, Royal Institution	29.86	758.4	29.87	758.7	77	25.0	57	e.	.....	.....	4	.....	5	.....	.....	.....	.....	d. clouds.	W. Newcombe.
Valencia, Observatory	29.80	756.9	29.82	757.4	65.1	18.4	76	sse.	24	10.7	.....	.....	8	.....	.....	.....	.....	misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.98	761.5	30.02	762.5	66	18.9	80	sw.	6	2.7	.....	2 c	2 s	sw.	calm	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.93	760.2	29.99	761.7	61	16.1	84	s.	4	1.8	.....	3 c	0	s.	.....	0.27	0.9	fair	G. A. Blair.
Father Point, Quebec*	29.82	757.4	29.84	757.9	66	18.9	70	w.	20	8.9	.....	2 c	0	w.	.....	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.12	739.6	29.95	760.7	47	8.3	93	ne.	9	4.0	.....	2 cs	5 ks	ne.	n.	0	0	fair	James Stewart.
Halifax, N. S*	29.99	761.0	30.09	764.3	67	19.4	81	w.	1	0.4	.....	3 cs	0	w.	.....	0	0	fair	A. Allison.
Kingston, Ontario*	29.62	752.3	29.94	760.5	68	20.0	78	sw.	16	7.2	.....	.....	10 k	.....	s.	0	0	threatening	A. P. Knight, M. A.
Montreal, Quebec*	29.72	754.9	29.92	760.0	66	18.9	68	w.	13	5.8	.....	0	0	.....	.....	0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.13	739.9	29.80	756.9	63	17.2	90	s.	18	8.0	.....	5 k	5 ks	sw.	sw.	0.04	1.0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.30	744.2	29.97	761.2	65	18.3	94	sw.	7	3.1	.....	2 k	0	w.	.....	0	0	fair	H. Morgan.
Port Stanley, Ontario	29.35	745.5	29.97	761.2	67	19.4	76	sw.	6	2.7	.....	2 k	5 k	sw.	sw.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.62	752.3	29.94	760.5	59	15.0	81	w.	.....	.....	1	0	2 s	.....	w.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.34	745.2	29.79	756.7	56	13.3	93	s.	1	0.4	.....	.....	10 s	.....	sw.	inap.	inap.	light rain	W. H. McIntyre.
Saugeen, Ontario*	29.14	740.1	29.83	757.7	65	18.3	78	sw.	20	8.9	.....	.....	10 ks	.....	.....	0.10	2.5	cloudy	
St. Andrews, N. B	29.99	761.7	30.04	763.0	58	14.4	87	sw.	1	0.4	.....	5 k	hz.	w.	.....	0	0	fair	
Sydney, C. B*	29.97	761.2	30.02	762.5	70	21.1	76	w.	5	2.2	.....	5 c	0	w.	.....	0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.59	751.6	29.96	761.0	61	16.1	81	sw.	12	5.4	.....	5 ck	0	w.	.....	0	0	fair	Magnetic Observatory.
Yarmouth, N. S*	30.02	762.5	30.08	764.0	61	16.1	96	calm	0	0	.....	3 c	0	sw.	.....	0	0	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	84.54	724.9	29.99	761.7	55.0	12.8	94	w.	.....	.....	3	10 k n	0	w.	.....	0.182	4.6	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.907	759.47	30.147	765.57	707	21.17	90	sw.	1	0.4	.....	5 k	5 s	.....	.....	0.21	5.3	.....	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.06	763.5	30.08	764.0	60	15.6	94	ne.	7.8	3.5	.....	.....	10 n	.....	.....	0.105	2.7	raining	C. Hansen.
Cape Town, C. G. H. Obs'y	29.98	761.5	30.01	762.2	66.2	19.0	60	ssw.	14	6.3	.....	0	0	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.76	755.9	29.78	756.5	75.9	24.4	88	e.	7.4	3.3			1			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	30.07	763.7	30.11	764.9	69.1	20.6	61	s.	7	3			0						Oversergent Fischer.
Fanöe	30.09	764.3	30.11	764.8	72.0	22 2	61	w.			2		0						Overloerer Lauridsen
Godthaab, Greenland	29.79	756.6	29.83	757.7	40.3	4.6	87	ne.			2		9			0.008	0.2		S. Kleinschmidt.
Ivigtut	29.80	756.8	29.82	757.3	38.3	3 5		nw.			2		10					foggy	
Stykkisholm, Iceland	29.50	749.4	29.55	750.5	41.4	5.2	83	e.			6		10					raining	A. O. Thorlacius.
Thorshavn	29.49	749.1	29.53	750.0	55.6	13.1	90	sw.	22	10			10					raining.	Overloerer Bergh.
Vestervig	29.99	761.8	30.08	764.1	72.0	22.2	56	se.			2		0						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.28	743.7	29.88	758.9	91.8	33.2	46	sse.			2	0	2 8			0	0	slightly cl'dy	M. Labroue, Directo .
Alençon, Normal School	29.38	746.2	29.93	760.2	75.2	24	60	s.			1					0	0		M. Nicot, Director.
Arras, Engineer School	29.75	755.6	30.00	761.9	80.1	26.7	46	se.			1		10 k		se.	0	0	stormy	M. Fénéon, Command't.
Avignon, Normal School	29.98	761.4	30.06	763.4	86.7	30.4	47	sw.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.40	746.8	29.92	760.0	83.8	28.8	36	se.			1		0			0	0	clear	M. Saillard, Director.
Beauvais, Normal School	29.69	754.1	29.94	760.5	77.9	25.5	57	e.			1		10		e.	0	0	covered	M. Frère Eugène Marie.
Besançon, Normal School	29.05	737.8	29.91	759.8	75.6	24.2	72	ne.			1		1		ne.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.61	752.2	29.86	758.4	85.5	29.7	54	e.			1		2			0	0	slightly cl'dy	M. Rayet, Director.
Bourges, Normal School	29.37	745.9	29.90	759.4	86.0	30	85	s.							s.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.63	752.6	29.87	758.8	83.8	28.8	60	sse.			1		1		se.	0	0		M. de Kermaree, Dir.
Caen, Normal School	29.91	759.7	29.99	761.7	51.1?	10 6?	90	ne.			1		2		sw.	0	0	slightly cld'y	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.61	752 0	29.91	759.7	83.5	28.6	61	calm			0		0			0	0	clear	M. Jadot, Director.
Charleville, Normal School.	29.47	748.4	30.00	761.9	82.0	27.8	77	sse.			3		2			0	0	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.61	726.8	29.87	758.7	90.7	32.6	31	e.			1	2 c	0			0	0	slightly cl'dy	M. Allnard, Director.
Cluny, Normal School	29.15	740.4	29.98	761.6	83.8	28.8	34	ssw.			3		0			0	0		M. de Villemontée, Dir.
Commercy, Normal School.	28.33	719.6	29.93	760.2	84.2	29	79	se.			2		k	se.	se.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.51	698.7	29.91	759.8	82.4	28	19	n.			2	0	2 k		n.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.98	736.0	30.04	763.0	85.6	29.8	27	s.			3		1		se.	0	0		M. Kina, Director.
Grenoble, Normal School	29.26	743.2	30.00	762.0	84.6	29.2	66	nw.			1	0	2 k			0	0	slightly cl'dy	M. Ablard, Director.
Lamballe, Normal School.					81.3	27.4	47	se.			3	0	2 k		se.	0	0	slightly cl'dy	M. Ollitrault, Director.
Lescar, Normal School	29.30	744.2	29.84	757.8	83.5	28.6	54	e.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.76	756.0	29.87	758.6	81.3	27.4	93	sse.			1		2	sw.	s.	0	0	¼ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.94	735.1	29.95	760.6	84.9	29.4	27	s.			3	2 c	0	w.		0	0	clear	M. André, Director.
Mans, Normal School	29.61	752.0	29.89	759.3	82.4	28	40	sse.			1		2		sse.	0	0	slightly cl'dy	M. Piboen, Director.
Marseille, Observatory	29.81	757.1	30.07	763.7	82.4	28.0	36	ssw.			1		1		ssw.	0	0		M. Stephan, Director.
Montlouis	24.94	633.5	29.78	756.5	75.2	24.0	43	s.	9.4	4.2				e.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.93	760.2	30.06	763.4	79.9	26.6	49	ssw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.20	741.6	29.96	761.0	83.1	28.4	43	s.			1		0			0	0	clear	M. Hasse, Director
Nantes, Observatory	29.73	755.1	29.87	758.7	86.2	30.1	43	ese.			0–2	0	8 k; kn		ssw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.85	758.3	29.96	760.9	84.4	29.1	59	se.	26.2	11.7			5		wsw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.46	545.1			56.8	13.8		s.			1		5		s.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.01	736.9	30.11	764.8	78.8	26	30	n.			1		0			0	0	clear	M. Tallien.
Puy de Dôme Obs'y, Summit	25.26	641.7			67.1	19.5	53	se.			2		0			0	0	clear	M. Allnard, Director.
Rochefort, Naval Obs'y	29.84	757.9	29.87	758.7	87.4	30.8	93	sse.			1		10		sse.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.65	753.2	29.86	758.4	85.8	29.9	48	ese.			3		2		nw.	0	0	slightly cl'dy	M. Mouillot, Director.
Rodez, Normal School	27.88	708.1	29.91	759.8	80.8	27.1	49	e.			3		5		w.	0	0	cloudy	M. Seger, Director.
Rouen, Normal School	29.93	760 1	29.97	761 3	81.0	27.2	45	nw.			2		0			0	0	clear	M. Brotier.
Saint Maur, Observatory	29.78	756.4	29.95	760.6	84.4	29.1	38	se.			1		1		se.	0	0		M. Renou, Director.
Toulouse, Observatory	29.26	743.1	29.98	761.5	87.4	30.8	48	sse.			6		2			0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.72	754 9	29.90	759.4	81.3	27.4	48	ene.			1		0			0	0	clear	M. de Tastes.
Versailles, Observatory	29.46	748.2	29.95	760.7	83.5	28.6	40	ne.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.66	753.4	29.95	760.8	84.0	28.9	40	sse.			1		1		sw.	0	0		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.66	728.0	30.05	763.2	77.0	25.0	47	ne.			2		2	ne.		0	0		Prof. Jnedt.
Bamberg	29.25	743.0	30.11	764.7	78.3	25.7	56	calm			0	0	1 k			0	0		Prof. Dr. Hoh.
Berlin	29.93	760.2	30.10	764.6	74.8	23.8	35	e.			2		0			0	0		Prof. Dr. Arndt.
Breslau	29.65	753.0	30.18	766.6	72.7	22.6	61	calm			0		7			0	0		Royal University Obs'y.
Carlsruhe	29.57	751.0	29.98	761.6	80.6	27.0	48	e.			1		0			0	0		Albert Senz.
Cassel	29.34	745.3	30.06	763.4	81.3	27.4	55	e.			1		1	e.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.68	753.8	30.02	762.6	80.1	26.7	59	sw.			2		1			0	0		Physical Society.
Friedrichshafen	28.64	727.4	30.02	762.5	71.2	21.8	81	s.			2		0			0	0		Wilhelm, Chief Tel.
Hamburg	29.99	761 8	30.09	763.2	75.0	23.9	50	sse.			3		0			0	0		E. Preller.
Kiel	30.08	764.0	30.10	764.4	69.6	20.9	65	n.			2		1			0	0		Prof. Dr. G. Karsten
Leipsic, Astrom'l Obs'y	29.70	754.4	30.11	764.7	73.4	23.0	56	ese.			2		1			0	0		H. Leppig, Asst.
Magdeburg	29.92	759.9	30.10	764.5	76.1	24.5	53	se.			1	0	0			0	0		Dr. Assmann.
Memel	30.09	764.2	30.13	765.4	68.5	20.3	80	wsw.			3	4 c	0						Issermann.
Munich	28.28	718.3	30.15	765.8	75.6	24.2	47	ne.			2		1			0	0		Dr. C. Lang.
Neufahrwasser	30.11	764.8	30.13	765.2	68.7	20.4	76	ne.			1		0			0	0		A. Lothes.
Neustadt, Palatinate	29.48	748.8	30.01	762.2	80.4	26.9	60	e.			1		1			0	0		Dicknether.
Stuttgart	29.08	738.6	29.93	760.1	79.7	26.5	44	e.			4		0			0	0		Prof. Dr. Schoder.
Wustrow	30.13	765.2	30.15	765.9	69.8	21.0	59	nne.			2		0			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.58	751.4	29.95	760.7	84.0	28.9		sw.			2.0		3			0	0		Schmidt & Wourlisch
INDIAN.																			
Kurrachee	29.59	751.6	29.64	752.9	82.9	28.3	79	wsw.	32.0	14.3			7		w.	0	0	d. clouds	
Deesa	29.12	739.8	29.59	751.6	88.1	31.2	51	sw.	20.0	8.9			4	wsw.	wsw.	0	0	d. clouds	
Bombay	29.71	754.6	29.75	755.5	82.0	27.8	81	w	13.0	5.8			10	w.	w.	0.03	0.8	overcast	
Poona, Yarrowda	27.89	708.4	29.75	755.6	75.0	23.9	77	wsw.	24.0	10.7			10		w.	0.06	1.5	overcast	
Trichinopoly	29.50	749.2	29.77	756.2	88.6	31.4	42	nnw.	2.0	0.9			10			0	0	overcast	
Bellary	28.26	717.9	29.72	755.0	81.0	27.2	67	wsw.	10.4	4.6			10	sw.		0	0	gloomy	
Belgaum	27.26	692.4	29.83	757.7	67.9	19.9	95	w.	10.0	4.5			10		sw.	0.07	1.8	drizzling	
Lahore	28.71	729.2	29.42	747.3	99.2	35.7	49	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.57	725.6	29.43	747.6	92.2	33.4	50	nw.	2.9	1.3			6			0	0		
Agra	28.95	735 3	29.49	749.1	93.1	33.9	47	w.	8.0	3.6			3		w.	0	0	d. clouds	
Nagpur	28.56	725.5	29.59	751.6	83.0	28 3	66	calm	0	0			10		n.	0.06	1.5	overcast	
Jubbulpore	28.24	717.3	29.57	751.1	86.4	30.2	57	nw.	3.9	1.7			4		w.	0	0	d. clouds	
Lucknow	29.12	739.8	29.49	749.1	87.8	31.0	73	calm	1.0	0.4			5	ne		0	0	d. clouds	
Allahabad	29.18	741.3	29.49	749.0	87.6	30.9	69	nw.	6.0	2.7			10			0.01	0.3	overcast	
Patna	29.33	744.9	29.51	749.6	80.4	26.9	87	w.	4.2	1.9			8	w.	w.	0.65	16.5	d. clouds	
Hazaribagh	27.53	699.2	29.50	749.3	81.6	27.6	75	w.	7.3	3.3			10		w.	1.09	27.7	showery	
Cuttack	29.59	749.2	29.58	751.2	82 0	27.8	89	w.	4.4	2.0			10			0.19	4.8	d. cloudy	
Calcutta, Alipore	29.50	749.4	29.53	750.0	81.4	27.4	92	nne.	8.0	3.6			10			0.71	18.0	overcast	
Dhubri	29.44	747.7	29.55	750.6	81.4	27.4	87	calm	3.2	1.4			9		s.	0.50	12.7	gloomy	
Chittagong	29.54	750.3	29.63	752.6	81.5	27.5	89	sse.	6.7	3.0			6			0	0	d. clouds	
Sibsagar	29 23	742.5	29.56	750.9	82.2	27.9	90	e.	2.0	0.9			10	w.	w.	0.76	19.3	d. clouds	
Jeypore	28.12	714.4	29.53	750.0	89.7	32.1	42	w.	7.1	3.2			3		w.	0	0	d. clouds	
Zanzibar, Africa	29.98	761.5			82.7	28.2	49	se.	11.0	4.9			0			0	0	blue sky	
ITALIAN.																			
Udine	29.68	753.8	30.07	763.8	82.0	27.8	39	s.	0.7	0.3			3			0.679	2.0		Prof. Giovanni Cloelig.
Milan	29.57	751.1	30.07	763.7	84.0	28.9	41	s.	4.9	2.2			2			0	0		Prof. Schiaparelli.
Padua	29.99	760.9	30.06	763.6	82.4	28.0	47	sse.	5.6	2.5			5	nw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.17	740.9	30.04	763.1	80.8	27.1	48	s.	3.8	1.7			2	nne.		0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Amount and kind. Lower. 0–10	Direction. Upper. From.	Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Genoa	29.90	759.5	30.09	764.2	79.7	26.5	55	sw.	4.3	1.9			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.20	716.3	30.04	762.9	79.3	26.3	38	e.			4		0			0	0		Prof. D. O. Bruno
Pesaro	30.03	762.8	30.08	764.0	77.4	25.2	57	nne.	7.4	3.3			0			0	0		Prof. Luigi Guidi.
Florence	29.79	756.7	30.04	762.9	85.5	29.7	30	w.			2		0			0	0		Prof. Costantino Pitter.
Leghorn	29.95	760.6	30.03	762.7	80.8	27.1	84	nw.	3.1	1.4			0			0	0		Prof. P. Monte.
Rome	29.87	758.6	30.04	762.9	84.6	29.2	29	w.	0	0			0			0.043	1.1		Prof. P. Tachini.
Lecce	29.78	756.4	30.02	762.5	79.2	26.2	56	ene.	11.2	5.0			2			0	0		Prof. C. de Giorgi
Cosenza	29.15	740.5	30.01	762.2	80.6	27.0	72	wsw.	4.3	1.9			4	sw.		0	0		Prof. D. Conti.
Cagliari	29.84	758.0	30.03	762.8	80.2	26.8	67	se.			2		1			0	0		Prof. A. Pacinotti.
Palermo	29.82	757.5	30.06	763.6	81.5	27.5	41	ne.	8.7	3.9			1			0	0		Prof. G. Giacciatore.
Syracuse	29.96	761.0	30.00	762.1	79.9	26.6	64	se.	3.1	1.4			7	w.		0	0		Prof. Vincenzo Gulliano
Sub-series.																			
Naples, S. R.	29.54	750.2	30.04	763.0	82.4	28.0	44	w.	0.7	0.3			4	w.		0.205	5.3		Prof. T. Brioschi.
Stelvio	22.39	568.7			53.6	12.0	62	sw.			1		2			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.44	570.0			52.0	11.1	82	e.			2		7			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	30.03	762.7	30.07	763.8	69.0	20.6	88	calm	0	0		0	2 s			0	0	fair	K. Ogawa.
Hakodate	30.08	764.0	30.09	764.3	60.5	15.8	94	ne.	1.2	0.5			2			0	0	clear	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.90	759.4	30.07	763.8	76.6	24.8	79	n.	2.5	1.1			9 s;ck			0.800	20.5	cloudy	M. Fojima.
Nagasaki, I. M. Obs'y	29.56	750.8	29.75	755.6	82.1	27.8	61	ne.	13.5	6.0		0	0			0.050	1.3	clear	
Nemuro	30.08	764.0	30.14	765.5	58.0	14.4	93	sse.	6.0	2.7		10	0			0	0	cloudy	
Niigata	30.05	763.3	30.09	764.3	77.5	25.3	78	calm	0	0		1 ck	8 ck		ene.	0	0	cloudy	M. Morita.
Nobiru	30.06	763.5	30.08	763.9	72.9	22.7	85	s.	10.9	4.8		0	8 s			0	0	cloudy	H. Midzushina.
Osaka	30.01	762.2	30.02	762.5	75.8	24.3	90	ene.	7.1	3.1			10 s			0.575	14.6	cloudy	
Sapporo					64.0	17.8	85	calm	0	0			0			0	0	cloudy	
Tokei Obs'y, Yeddo	30.03	762.9	30.11	764.8	76.0	24.4	86	ssw.	7.3	3.2			10 s		ssw.	0	0	overcast	The Staff.
Wakayama	29.99	761.7	30.04	763.0	79.6	26.4	70	sw.	3.5	1.6		0	8			0.111	2.8	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.87	758.7	30.06	763.5	72.0	22.2	65	ne.	13.0	5.8		1 cs	4 k;n			0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.71	602.2	29.93	760.2	57.2	14.0	97	calm	0	0		0	1 k			1.442	36.6	clear	Prof. Vicente Fernandez.
Leon, †	24.38	619.2	30.03	762.7	58.1	14.5	94	ese.			1	4 c	4 k	s.	s.	0.236	6.0	cloudy	Prof. M. Leal.
Mazatlan	29.68	754.0	29.94	760.5	77.5	25.3	84	ne.	0	0		9 cu	0	se.		inap.	inap.	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.3	30.14	765.5	55.0	12.8	87	calm			0		10 kn			0.075	1.9	raining	The Staff.
Morelia	24.19	614.3	30.22	767.5	58.6	14.8	63	e.			2	1	2	s.	sw.	0.489	12.4	raining	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascallentes	23.97	608.8	29.95	760.6	59.5	15.3	97	calm			0		10 kn		sse.	0.240	6.0	covered	M. Y. de Leon, M. E
Puebla, Catholic Institute	23.43	595.0	30.10	764.5	57.2	14.0	95	calm			0	0	6		e.	0	0	½ cloudy	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	22.47?	573.4?	30.16?	765.7?	56.5?	13.2?	80	sw.	8.9	3.9		0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.01	762.2	30.01	762.2	73.0	22.8		ese.			3					0.004	0.1		
Groningen	30.00	761.9	30.05	763.3	72.0	22.2		s.			2					0	0		
Helder	30.02	762.4	30.02	762.4	67.6	19.8		ese.			2					0	0		
Helleveotsluis	30.00	762.1	30.00	762.1	75.6	24.2	64	se.			1					0	0		
Utrecht	29.98	761.5	30.03	762.7	76.1	24.5	53	ene.			2		2			0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.90	759.5	29.97	761.1	67.6	19.8	52	s.	27	12			3			0	0		
Brono	29.71	754.6	29.75	755.6	55.8	13.2	96	sw.	18	8			10			0.248	6.3	raining	
Christiania	29.85	758.2	29.99	761.7	76.8	24.9	54	ssw.	11	5			3			0	0		
Gjesvær	29.48	748.9	29.51	749.5	45.7	7.6		w.			7		10					raining	
Lodingen	29.65	753.1	29.70	754.3	55.6	13.1	66	wsw.			4		8			0.413	10.5	rain & fog	
PORTUGUESE.																			
Angra, Azores					73.4	23.0	76	nne.	7.4	3.3			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.00	736.6	29.96	760.9	79.5	26.4	41	sw.	3.8	1.7			6			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.99	761.8	30.08	764.0	73.9	23.3	73	sw.	2.5	1.1			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.69	754.1	30.04	763.1	71.1	21.7	74	wsw.	13.0	5.8			7			0	0		The Staff.
Ponta Delgada, Azores	30.05	763.3	30.12	765.1	75.2	24.0	57	nne.	9.4	4.2			5			0	0		
Saint Paul de Loando	29.82	757.3	30.02	762.4	76.6	24.8	79	calm			0		1	nne.		0	0		
Serra da Estrella	25.30	642.7	29.91	759.6	61.0	16.1	65	sse.	1.8	0.8			7			0	0	foggy	
RUSSIAN.																			
Akmollinski	28.66	727.9	29.68	753.8	76.3	24.6	32	calm	0	0		0	2 k			0	0		Major K. Lasarew.
Archangel	29.52	749.8	29.54	750.3	64.0	18.1	72	w.	13	6			9 k			0	0		Capt. Sselliwerstow.
Astrakhan	30.02	762.6	29.94	760.5	89.1	31.7	40	wsw.	7	3		0	3 ks			0	0		Capt. Wisganow.
Barnaul	29.14	740.2	29.62	752.3	66.4	19.1	71	calm	0	0			9			0.106	2.7		Meteorological Obs'y.
Dorpat	29.71	754.6	29.94	760.5	73.0	22.8	68	wsw.	11	5		0	4 k			0	0		Observatory.
Ekaterinburg	28.88	733.6	29.80	756.9	74.1	23.4	39	wsw.	9	4		0	2 ks			0	0		Meteorological Obs'y.
Irkutsk																			
Kasan	29.52	749.7	29.77	756.1	81.0	27.2	37	calm	0	0		0	7 k			0	0		Observatory.
Kertch	29.99	761.8	30.01	762.3	77.2	25.1	70	se.	9	4		0	4 k			0	0		Lagorio & Sastyrez.
Kieff	29.34	745.2	29.94	760.4	80.1	26.7	47	n.	4	2		ck	9 ks;n						Observatory.
Lugan	29.73	755.1	29.93	760.1	77.2	25.1	51	wnw.	9	4			5			0	0		Meteorological Obs'y.
Moscow	29.41	747.0	29.85	758.2	79.5	26.4	49	calm	0	0		0	2 ks						Meteorological Obs'y.
Nikolaiev	29.96	761.0	30.03	762.8	83.7	28.7	52	calm	0	0		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China																			Physical Observatory.
St. Petersburg	29.56	750.9	29.71	754.5	75.0	23.9	91	calm	0	0		0	3 ks			0.071	1.8		Central Physical Obs'y.
Semipalatinsk	29.82	757.4	29.84	757.8	70.9	21.6	70	nw.	13	6		cs	5 k			0	0		Major Lasarew
Tashkend, Laboratory	29.05	737.9	29.67	753.0	74.5	23.6	44	nw.	4	2			6			0.039	1.0		Teich, A. M.
Tiflis	28.09	713.6	29.52	749.7	97.3	36.3	28	calm	0	0			0			0	0		Physical Observatory.
Vladivostock	28.54	725.0	29.86	758.5	95.2	35.1	34	e.	11	5		0	5 k			0	0		
Warsaw	29.85	758.2	29.92	759.9	67.3	19.6	97	se.	11	5			10 n						Astronomical Obs'y.
Wilna	29.72	754.8	30.13	765.2	72.5	22.5	61	nnw.	7	3		0	7 ks						Berg, Assistant.
Yeniseisk	29.67	753.5	30.07	763.7	73.4	23.0	66	sw.	2	1			1			0	0		M. O. Marks.
SCOTTISH.	29.37	745.9	29.64	752.8	70.2	21.2	66	wnw.	9	4			4			0	0		
Monach Lt.																			
North Unst.			29.77	756.1	59	15.0	94	sw.			6		10					raining	J. Youngclause.
SPANISH.			29.82	757.4				w.			4		10						Robt. Burnet.
Barcelona, Met. Obs'y	29.89	759.2	29.99	761.8	82.4	28.0	68	se.	4.0	1.8		1 c	0			0	0	misty	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.99	761.8	30.05	763.3	77.4	25.2	64	nw.	3.1	1.4		2	6	n.		0	0	almost cov.	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.04	686.8	29.81	757.2	82.6	28.1	34	sw.	4.5	2.0		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.78	705.7	29.89	759.1	85.1	29.5	31	sw.	9.8	4.4		0	2			0	0		The Staff.
Murcia, Met. Obs'y	29.84	757.9	29.97	761.2	84.6	29.2	69	ene.	2.9	1.3		2	7	w.		0	0	almost clear	Olayo Diaz, Director
Oviedo	29.11	739.3	30.00	762.1	62.6	17.0	90	n.	2.7	1.2			10 n			0	0	cloudy	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.01	730.8	29.87	758.8	69.8	21.0	74	sw.	15.4	6.9		0	7			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.04	763.0	30.10	764.6	78.2	25.7	85	e.	6.5	2.9		8 c;cs	0	n.		0	0	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.6	29.89	759.1	79.5	26.4	84	sw.	3.3	1.5			9 n		sw.	1.535	39.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.90	759.4	29.99	761.8	77.5	25.3	66	w.	5.3	2.4		3	4	w.	w.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	30.00	762.1	30.10	764.4	80.2	26.8	88	calm	0	0		1 s	2 k	n.	n.	0.465	11.8	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.73	755.1	29.87	758.7	75.4	24.1	92	nnw.	3.8	1.7			10 n			1.11	28.2	raining	José L. Yrastorza.
SWEDISH																			
Haparanda	29.67	753.6	29.71	754.6	66.9	19.4	92	w.			4		5			0	0		
Umea	29.78	756.4	29.83	757.7	68.7	20.4	45	nw.			4		5			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Hernosand	29.85	758.1	29.90	759.4	73.4	23.0	41	wsw.			2		3			0	0		
Stockholm	29.86	758.5	30.04	763.0	74.8	23.8	34	w.			2		3			0	0		
Wisby	29.98	761.5	30.04	763.0	68.0	20.0	72	nnw.			2		0			0	0		
Sub-series.																			
Upsala	29.92	760.0	30.01	762.2	69.1	20.6	62	w.	5.1	2.3			8	w.		0	0		S. G. Fineman.
Swiss.																			
Geneva	28.65	727.6	30.01	762.3	75.2	24.0	60	nne.			2		0			0	0	clear	The Observatory
Turkish.																			
Constantinople			30.00	762.0	79.0	26.1	53	ne.	21	9.5			3		ne.	0.028	0.7		The Observatory.
Valona			30.15	765.8	77.5	25.3		w.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.89	759.2	83.8	28.8	57	w.			1	0	0			0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.98	761.5	30.06	763.5	69	20.6	66	s.	6	2.7			10 ks		w.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.18	741.2	29.82	757.4	63	17.2	90	w.	9	4.0			10 s		w.	0.08	2.0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.06	636.5	29.78	756.4	62	16.7	90	e.	2	0.9		0	0			1.95	49.5	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	26.96	684.8	29.71	754.6	60	15.6	37	sw.	12	5.4		1 c	0	sw.		0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.97	735.8	30.12	765.0	70.0	21.1	94	ne.	2	0.9			10 s			0.16	4.1	cloudy	H. Hall.
Atlantic City, New Jersey	30.10	764.5	30.10	764.5	71.3	21.8	82	sw.	2	0.9			10 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.96	761.0	30.15	765.8	73	22.8	90	n.	3	1.3		10 k	0			0.03	0.8	cloudy	John Healy.
Baltimore, Maryland	30.06	763.5	30.11	764.8	70	21.1	84	s.	1	0.4			10 n		sw.	0.01	0.3	light rain	Robert Seybolt.
Barnegat, New Jersey	30.09	764.3	30.11	764.8	69.0	20.6	93	sw.	2	0.9			10 s			0	0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.24	717.3	29.78	756.4	61	16.1	78	calm	0	0		4 ck	2 s			0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.02	686.3	29.81	757.2	60	15.6	46	nw.	4	1.8		0	1 s			inap.	inap.	clear	S. Wheaton.
Behring Island, Behring Sea	29.94	760.5	29.96	761.0	54.9	12.7		s.	18	8.0			fg.			0.02	0.5	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.02	711.7	29.77	756.1	62	16.7	78	e.	12	5.4		5 cs	hz.	w.		0	0	fair	Cyrus Cramer.
Block Island, Rhode Island	30.08	764.0	30.11	764.8	70	21.1	78	sw.	6	2.7		7 cs	2 s			0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.16	689.9	29.91	759.7	54	12.2	69	w.	1	0.4		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.94	760.5	30.10	764.5	67.0	19.4	73	sw.	6	2.7		0	9 s		w.	0.06	1.5	cloudy	O. B. Cole.
Brownsville, Texas	29.96	761.0	30.00	762.0	72.1	22.3	90	calm	0	0		2 cs	3 s			0.05	1.3	fair	M. McCarty.
Buffalo, New York	29.26	743.2	29.99	761.7	64.7	18.2	73	s.	17	7.6		0	6 ks		sw.	0	0	fair	Clarence Weaver.
Buford, Fort, Dakota	27.76	705.1	29.70	754.4	66	18.9	75	e.	10	4.5		9 cs	0	calm		0	0	cloudy	A. H. Bell.
Burlington, Vermont	29.71	754.6	30.00	762.0	64.7	18.2	71	s.	9	4.0		0	7 s		w.	0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.76	755.9	30.15	765.8	64.6	18.1	86	s.	3	1.3		0	0			0	0	clear	W. H. Ray.
Campo, California	27.40	695.9	29.90	759.4	58.6	14.8	84	s.	1	0.4			9 s		s.	0	0	cloudy	W. H. Clendenon
Cape Henry, Virginia	30.06	763.5	30.08	764.0	80	26.7	82	s.	11	4.9			10 s		s.	0	0	threatening	A. K. Alderson.
Cape May, New Jersey	30.08	764.0	30.11	764.8	73.0	22.8	90	s.	6	2.7			10 s		s.	0	0	cloudy	W. E. Smith.
Cape Mendocino	29.32	744.7			52	11.1	80	n.	4	1.8		0	fg.			0	0	clear	J. R. Williams.
Cedar Keys, Florida	30.10	764.5	30.12	765.0	79	26.1	88	n.	1	0.4		0	3 ks			0.04	1.0	clear	F. W. Mixer.
Champaign, Illinois	29.23	742.4	30.02	762.5	60.0	15.6	81	sw.	11	4.9		5 c	0	n.		0	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.06	763.5	30.10	764.5	79.5	26.4	77	w.	2	0.9		0	0			inap.	inap.	clear	J. H. Smith.
Charlotte, N. Carolina	29.25	742.9	30.08	764.0	68.0	20.0	78	n.	2	0.9			10 s		ne.	0.01	0.3	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.32	744.7	30.13	765.3	69.0	20.6	90	w.	2	0.9		0	9ks;fg		sw.	inap.	inap.	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.05	610.9	29.75	755.6	59.2	15.1	44	nw.	4	1.8			10 s		nw.	0	0	cloudy	E. McGovern.
Chicago, Illinois	29.24	742.7	29.93	760.2	63.0	17.2	73	sw.	10	4.5		10 k	0	w.		0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.10	764.5	30.12	765.0	71	21.7	100	se.	8	3.6			10 s			0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.47	748.5	30.11	764.8	61.7	16.5	82	s.	3	1.3		0	0			0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.32	744.7	30.04	763.0	62.8	17.1	70	s.	10	4.5		1 k	0	w.		0	0	clear	J. B. Newlin.
Coleman City, Texas	28.23	717.0	29.97	761.2	66	18.9	76	s.	1	0.4		3 c	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.25	742.9	30.08	764.0	59	15.0	81	sw.	2	0.9		7 k	0	w.		0	0	fair	D. Cuthbertson.
Concho, Texas	28.10	713.7	29.96	761.0	63	17.2	90	s.	2	0.9		3 c	0			0	0	clear	W. W. McConihe.
Custer, Fort, Montana	26.67	677.4	29.73	755.1	66	18.9	44	n.	4	1.8		0	3 s		calm	0	0	clear	W. B. Lamar.
Davenport, Iowa	29.32	744.7	29.96	761.0	65	18.3	76	sw.	9	4.0		7 cs	0	sw.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.19	639.8	29.84	757.9	62	16.7	75	sw.	3	1.3		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.32	719.3	30.03	762.7	49	9.4	77	calm	0	0			10 s		sw.	0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.24	641.1	29.67	753.6	70	21.1	47	e.	8	3.6		10 cs	0	w.		0	0	cloudy	G. W. Scott.
Decatur, Texas					66	18.9	68	se.	8	3.6		0	2 s		se.	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.10	764.5	30.12	765.0	71	21.7	84	s.	7	3.1			10 s		sw.	0	0	cloudy	T. S. Townsend.
Denison, Texas	29.26	743.2	30.04	763.0	65.5	18.6	84	se.	4	1.8		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.70	627.4	29.72	754.9	65.5	18.6	51	s.	2	0.9		2 c	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.06	738.1	29.94	760.5	64	17.8	78	w.	3	1.3		4 cs	3 s	n.		0	0	fair	F. W. Conrad.
Detroit, Michigan	29.28	743.7	29.96	761.0	63.0	17.2	78	sw.	12	5.4		2 ck;c	3 s	n.	w.	0	0	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.35	694.7	29.83	757.7	66	18.9	78	s.	13	5.8		2 c	0	se.		0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.22	742.2	29.91	759.7	66.3	19.1	73	sw.	4	1.8		4 ck	hz.	w.		0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.24	742.7	29.96	761.0	57	13.9	74	ne.	9	4.0		3 ck	3 k		ne.	0.01	0.3	fair	N. B. Conger.
Eagle Pass, Texas	29.24	742.7	30.03	762.7	71.0	21.7	90	s.	2	0.9		0	3 s			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.28	642.1	29.84	757.9	55	12.8	60	sw.	10	4.5		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.99	761.7	30.06	763.5	59.0	15.0	81	sw.	2	0.9		3 c	6 s;hz	w.	w.	0.01	0.3	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.23	691.6	29.87	758.7	64	17.8	78	se.	8	3.6		7 c	0	se.		0	0	fair	W. J. Cundall.
El Paso, Texas	26.26	667.0	29.86	758.4	62	16.7	54	ne.	2	0.9		2 c	0			0	0	clear	J. F. Marshall
Erie, Pennsylvania	29.32	744.7	30.02	762.5	64	17.8	73	sw.	5	2.2			8 ks		w.	0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.25	742.9	29.89	759.2	53	11.7	86	n.	6	2.7			10 s		n.	0.53	13.5	cloudy	George Heathcote.
Fredericksburg, Texas	28.29	718.6	30.00	762.0	69	20.6	76	calm	0	0		3 cs	0			0	0	fair	Frank Halwegler.
Galveston, Texas	30.00	762.0	30.05	763.3	77	25.0	82	s.	6	2.7		5 cs	0	ne.		0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.24	742.7	29.89	759.2	63.5	17.5	87	s.	12	5.4			10 k		w.	0.23	5.8	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.23	640.8	29.80	756.9	62.4	16.9	84	ne.	2	0.9			10 s			0.35	8.9	cloudy	Robert O. Lord.
Hatteras, North Carolina	30.08	764.0	30.10	764.5	82	27.8	88	se.	3	1.3		6 c	hz.	e.		0	0	fair	R. M. Crawford.
Helena, Montana	25.76	654.3	29.85	758.2	61	16.1	48	w.	10	4.5		10 ck	0	w.		0	0	cloudy	N. C. Smith.
Henrietta, Texas	29.07	738.4	30.07	763.8	70.0	21.1	70	s.	5	2.2		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.46	722.9	29.80	756.9	58.9	14.9	87	e.	6	2.7		1 cs	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.28	743.7	30.05	763.3	63	17.2	75	sw.	3	1.3		0	hz.			0	0	clear	O. Schutze
Indianola, Texas	30.00	762.0	30.03	762.7	78.0	25.6	77	calm	0	0		3 cs	2 k	w.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.87	733.3	29.99	761.7	65	18.3	78	e.	1	0.4		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.08	764.0	30.12	765.0	77	25.0	82	calm	0	0		2 cs	0			0.43	10.9	clear	J. W. Smith.
Keogh, Fort, Montana	27.26	692.4	29.69	754.1	70	21.1	31	n.	2	0.9		4 c	sk.	s.		0	0	fair	A. Schneider.
Keokuk, Iowa	29.35	745.5	29.98	761.5	66.0	18.9	73	sw.	10	4.5		2 k	0	w.		0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.07	763.8	30.09	764.3	85.0	29.4	74	calm	0	0		1 cs	2 k			0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.10	764.5	30.12	765.0	81	27.2	82	s.	11	4.9		hz.	3 k		sw.	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.12	739.6	30.13	765.3	67	19.4	96	sw.	2	0.9			10 n		sw.	1.29	32.8	light rain	J. A. Cody.
La Crosse, Wisconsin	29.11	739.4	29.86	758.4	67	19.4	84	s.	1	0.4			10 s			0.20	5.1	cloudy	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.13	739.9	29.99	761.7	62	16.7	78	s.	2	0.9		3 cs	0	w.		0	0	clear	A. W. Browne.
Lewiston, Idaho	29.20	741.7	30.01	762.2	63.5	17.5	40	se.	4	1.8		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.77	756.1	30.08	764.0	65	18.3	84	ne.	3	1.3		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.58	751.3	29.97	761.2	65.1	18.4	84	s.	1	0.4		0	4 s		s.	0	0	fair	Egbert van Dyke.
Louisville, Kentucky	29.54	750.3	30.09	764.3	61	16.1	84	calm	0	0		0	sk.			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.40	746.7	30.07	763.8	68	20.0	90	sw.	1	0.4			10 n		s.	0.05	1.3	light rain	Lewis Duane.
Macon, Fort, North Carolina	30.11	764.8	30.12	765.0	80	26.7	88	sw.	5	2.2		3 ck	1 k	s.	s.	0	0	fair	F. P. Chaffee.
Madison, Wisconsin	28.89	733.8	29.87	758.7	65	18.3	84	sw.	5	2.2		3 cs	0	w.		inap.	inap.	fair	C. A. Shaw.
Maginnis, Fort, Montana	25.47	646.9			59	15.0	50	se.	7	3.1		6 cs	0	sw.		0	0	fair	H. W. Dodge.
McKavett, Fort, Texas	27.82	706.6	30.04	763.0	65	18.3	90	s.	5	2.2		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.23	742.4	29.94	760.5	52	11.1	80	nw.	8	3.6		5 c	0	nw.		0.36	9.1	fair	J. Gilligan.
Memphis, Tennessee	29.77	756.1	30.10	764.5	68	20.0	84	ne.	4	1.8		8 cs	0	sw.		0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.15	740.4	29.88	758.9	66	18.9	78	sw.	10	4.5		2 c	2 s			0	0	fair	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec.	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.70	678.2	29.92	760.0	52	11.1	61	sw.	2	0.9		0	0			0	0	clear	J. H. Jones.
Mobile, Alabama	30.06	763.5	30.10	764.5	75	23.9	90	se.	2	0.9		5 cs	4 ks	sw.		0.24	6.1	cloudy	C. A. Read.
Montgomery, Alabama	29.88	758.9	30.11	764.8	74	23.3	94	calm	0	0		4 k	48;fg	w.	w.	0.04	1.0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.91	734.3	29.88	758.9	54	12.2	86	ne.	2	0.9		1 k	hz.			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.12	739.6	30.12	765.0	65.0	18.3	78	calm	0	0		1 cs	2 s	w.	w.	0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.93	607.8	30.01	762 2	43.0	6.1	96	nw.	30	13.4			10 s		nw.	0	0	cloudy	J. G. Linsley.
Nashville, Tennessee	29.56	750.8	30.12	765.0	63.0	17.2	90	nw.	1	0.4		10 ck	fg.	w.		0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.99	761.7	30.10	764.5	66	18.9	78	w.	1	0.4		10 c	sk.	sw.		0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.05	763.3	30.10	764.5	71	21.7	84	sw.	3	1.3		10 k	0			0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.07	763.8	76.8	24.9	86	se.	1	0.4			10 s		se.	0.03	0.8	cloudy	L. Dunne.
Newport, Rhode Island	30.06	763.5	30.11	764.8	70.8	21.6	82	s.	4	1.8			10 s			0	0	cloudy	W. McGillivray.
New York, New York	29.94	760.5	30.11	764.8	68	20.0	76	sw.	4	1.8		4 cs	5 s	sw.		0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	30.07	763.8	30.10	764.5	77	25.0	64	sw.	4	1.8		3 cs	0			0.04	1.0	clear	Wm. Davis.
North Platte, Nebraska	26.99	685.5	29.79	756.7	62.6	17.0	72	calm	0	0		2 cs	1 s			0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.16	766.1	30.20	767.1	47.0	8.3	93	calm	0	0		0	0			0	0	clear	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.25	742.9	29.27	743.4	47.5	8.6	97	sw.	20	8.9		0	7 s		sw.	0.02	0.5	fair	P. H. Ray.
Omaha, Nebraska	28.79	731.3	29.93	760.2	65.1	18.4	78	s.	6	2.7		4 c; k	0			0	0	fair	A. Pollak.
Oswego, New York	29.66	753.4	29.98	761.5	66.3	19.1	67	s.	7	3.1		4 k	0	sw.		inap.	inap.	fair	S. W. Beall.
Palestine, Texas	29.53	750.0	30.07	763.8	67.0	19.4	90	ne.	8	3.6		3 c	0	w.		0	0	clear	L. M. Pindell.
Pensacola, Florida	30.06	763.5	30.09	764.3	75.1	23.9	97	sw.	3	1.3			10 s		w.	0.03	0.8	cloudy	M. McGauran.
Philadelphia, Pa.	30.02	762.5	30.12	765.0	70.5	21.4	73	s.	4	1.8			10 s		s.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.02	457.7	29.81	757.2	37	2.8	69	sw.	12	5.4		0	5 s		sw.	0	0	fair	L. M. Dey.
Ploche, Nevada	24.11	612.4	29.81	757.2	61	16.1	78	nw.	2	0.9		4 cs	0	calm		0.33	8.4	fair	C. N. Kitchel.
Pittsburg, Pennsylvania	29.29	744.0	30.08	764.0	59.3	15.2	87	nw.	1	0.4		0	fg.			0	0	clear	J. B. Turton.
Poplar River, Montana	27.61	701.3						nw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.09	764.3	30.10	764.5	78.0	25.6	85	s.	8	3.6			10 n		s.	0.15	3.8	light rain	M. Hermann.
Port Huron, Michigan	29.26	743.2	29.92	760.0	61.5	16.4	75	sw.	14	6.3		5 c	0			0	0	fair	W. O. Bailey.
Portland, Maine	29.98	761.5	30.04	763.0	66.0	18.9	68	w.	3	1.3			10 s			0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	30.07	763.8	30.14	765.5	55.0	12.8	86	calm	0	0		0	1 s			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					81	27.2	82	sw.	5	2.2		4 c	1 k			0	0	fair	F. S. Coburn.
Prescott, Arizona	24.92	633.0	29.90	759.4	63	17.2	90	s.	3	1.3		0	7 s		s.	0.41	10.4	fair	J. McN. Wright.
Provincetown, Mass.	30.05	763.3	30.08	764.0	72	22.2	82	s	4	1.8		3 cs	5 s			0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.10	764.5	30.10	764.5	81	27.2	79	ne.	5	2.2		1 c	1 k	calm	sw.	0	0	clear	W. J. Evans.
Red Bluff, California	29.46	748.3	29.82	757.4	71.4	21.9	44	n	1	0.4		0				0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.82	757.4	30.06	763.5	73	22.8	90	se.	1	0.4			10 s		calm	0.15	3.8	cloudy	H. S. Miles.
Rochester, New York	29.33	745.0	29.98	761.5	61	16.1	78	sw.	12	5.4		5 k	hz.	w.		0	0	fair	E. W. McGann.
Roseburg, Oregon	29.55	750.6	30.09	764.3	51.5	10.8	75	e.	2	0.9		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.72	754.9	29.79	756.7	66.4	19.1	63	se.	9	4.0		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.49	749.0	30.07	763.8	63.5	17.5	92	s.	6	2.7		1 c	0	sw.		0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.03	737.3	29.87	758.7	60.0	15.6	87	ne.	8	3.6			10 s			0.77	19.6	cloudy	P. F. Lyons
St. Vincent, Minnesota	29.06	738.1	29.91	759.7	47	8.3	93	ne.	5	2.2		2 cs	3 s	w.		0	0	fair	G. Kingsbury.
Salt Lake City, Utah	25.62	650.7	29.81	757.2	71	21.7	59	ne.	2	0.9		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.35	745.5	30.04	763.0	69.0	20.6	90	calm	0	0		8 cs	0			0	0	cloudy	T. J. Kenan.
San Diego, California	29.84	757.9	29.91	759.7	68.5	20.3	86	w.	3	1.3			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.35	745.5	30.01	762.2	61.9	16.6	73	sw.	12	5.4		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.08	764.0	30.11	764.8	71.0	21.7	76	sw.	8	3.6		10 cs	0	sw.		0	0	cloudy	B. A. Blundon.
San Francisco, California	29.81	757.2	29.88	758.9	55	12.8	93	sw.	15	6.7		0	fg.		w.	0	0	clear	N. Geron.
Santa Fé, New Mexico	23.31	592.1	29.80	756.9	59	15.0	62	se.	3	1.3		2 c	0			inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	30.03	762.7	30.12	765.0	77	25.0	76	nw.	2	0.9		4 c	0			inap.	inap.	fair	H. W. Ford.
Shaw, Fort, Montana	26.23	666.2	29.76	755.9	60	15.6	36	sw.	16	7.2		6 k	0	sw.		c	0	fair	A. L. Mathews.
Shreveport, Louisiana	29.84	757.9	30.08	764.0	66	18.9	93	calm	0	0		1 c	fg.			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.80	731.5	29.98	761.5	62	16.7	72	se.	2	0.9		0	0			0	0	clear	T. Cleary.
Silver City, New Mexico	24.32	617.7	29.78	756.4	53	11.7	59	calm	0	0		0	0			0.08	2.0	clear	J. B. Wallace.
Sitka, Alaska	29.88	758.9	29.91	760.5	54.5	12.5	93	sw.	12	5.4			10 n		sw.	1.23	31.2	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.61	752.1	30.07	763.8	62.5	16.9	88	e.	4	1.8		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.06	763.5	30.10	764.5	80	26.7	88	calm	0	0		3 cs	1 ks			1.48	37.6	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.96	710.2	29.96	761.0	60	15.6	56	sw.	7	3.1		10 k	0	sw.		0	0	cloudy	D. Moore.
Springfield, Illinois	29.38	746.2	30.04	763.0	63	17.2	78	sw.	6	2.7		0	0			0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.96	761.0	30.09	764.3	64.9	18.3	84	se.	1	0.4		10 cs	0	w.		0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.66	728.0	30.05	763.3	60	15.6	81	s.	6	2.7		0	3 k		s.	0	0	clear	J. B. Marbury.
Starkville, Miss.	29.62	752.3	30.09	764.3	73	22.8	63	ne.	5	2.2		4 ck	0			0	0	fair	M. J. Wright, jr.
Stevenson, Fort, Dakota	27.97	710.4	29.75	755.6	60	15.6	93	e.	6	2.7		5 cs	5 s	se.		0	0	cloudy	W. Burrows.
Stockton, Fort, Texas	27.00	685.8	29.94	760.5	61.0	16.1	93	s.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Thomas Camp	27.20	690.9	29.82	757.4	69.5	20.8	82	s.			1	2 cs	3 k	sw.	sw.	0	0	fair	
Thatcher's Island, Mass.	30.01	762.2	30.06	763.5	61.8	16.6	75	nw.	5	2.2		5 k	0	w.		0	0	fair	G. Liebmann.
Toledo, Ohio	29.31	744.5	29.98	761.5	63	17.2	73	s.	8	3.6		0	0			0	0	clear	A. Buell.
Tucson, Arizona	27.54	699.5	29.88	758.9	71	21.7	84	calm	0	0		0	4 ks			0.41	10.4	fair	J. L. Whiteside.
Umatilla, Oregon	29.71	754.6	30.07	763.8	59.5	15.3	66	w.	2	0.9		4 c	0			0	0	fair	J. Daly.
Uvalde, Texas	29.07	738.4	30.01	762.2	69	20.6	93	s.	1	0.4		10c;cs	0	s.		0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona					70.4	21.3	71	nw.			1	3 cs	3 k	s.	sw.	0	0	fair	D. Brooks.
Vicksburg, Mississippi	29.84	757.9	30.08	764.0	71	21.7	94	se.	3	1.3			10 s			inap.	inap	cloudy	James Kenealy.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.42	620.3	29.76	755.9	48.8	9.3	93	w.	5	2.2		0	0			0.07	1.8	clear	T. M. Ambler.
Washington, D. C.	30.00	762.0	30.11	764.8	69.1	20.6	91	calm	0	0			10 n		sw.	0.18	4.6	light rain	F. M. M. Beall.
West Las Animas, Colorado	25.98	659.9	29.73	755.1	58	14.4	74	ne.	2	0.9		2 cs	0	ne.		0	0	clear	F. H. Brandenburg
Williamsport, Pa.	29.48	748.8	30.06	763.5	61	16.1	84	w.	4	1.8			10 ks		w.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.05	763.3	30.10	764.5	80	26.7	86	calm	0	0		4 c	0			inap.	inap.	fair	Samuel A. Haney.
Winnemucca, Nevada	25.67	652.0	29.90	759.4	58	14.4	20	ne.	8	3.6		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.58	725.9	29.86	758.4	63	17.2	73	sw.	1	0.4		3 cs	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.65	753.1	29.79	756.7	85.0	29.3	63	calm	0	0			10 s			0	0	cloudy	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.08	560.8			53.0	11.7	76	calm	0	0			8ks; us		w.	0.06	1.5	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.12	765 0	30.13	765.3	81	27.2	95	ne.				5 ck	3 ks	ne.		1.27	32.3	fair	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.01	762.2	77	25.0	90	calm	0	0			10 ks		calm	0.50	12.7	cloudy	J. I. Plume.
Havana, Cuba†	30.02	762.5	30.08	764.0	80	26.7	82	se.	1.2	0.5		7 cs	0			0	0	fair	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	30.06	763.5	30.07	763.8	79.0	26.1	76	calm	0	0		5 c	0			0	0	fair	Robert Johnston.
Magua, San Domingo, W. I					69	20.6		calm			0	3 ks	0			0	0		S. M. Pike.
Navassa					81	27.2	74	ne.	7	3.1		1 k	3 ks	e.	ne.	0	0	clear	F. M. Everett.
Paramaribo, S. A.	29.94	760.5	30.02	762.5	79	26.1	87	se.			3	5 ck	0			0.400	10.2	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	30.10	764.5	30.10	764.5	78	25 6	89	n.			1		10 ks		e.	inap.	inap.	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	29.42	747.3	29.98	761.5			99	ne.			1	8 ck	0	se.		0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alas*†	29.61	752.1	29.67	753.6	51	10.6	93	w.			6	0	7 ks			0.13	3.3	fair	W. J. Fisher.
St. Thomas, W. I.	30.06	763.5	30.20	767.1	84	28.9	72	e.				1 ck	3 k	e.		0	0	fair	Aug. Wallce.
York Factory, B. A.	30.00	762.0	30.06	763.5	46.0	7.8	92	n.	15	6.7		fg.	1 s		n.	0	0	foggy	Fortesque & Wood.

VESSELS. WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, N. 21° 54′, W. 34° 10′	30.09	764.3	77.5	25.3	72	ne.			3		3							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.94	760.5	80.5	26.9	74	nw.			3		2					1	nw.	d. clouds.
H. M. S. Amethyst, Santos Bay, Brazil	30.25	768 3	67.8	19.9	91	calm			0		0					1	sw.	misty.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.99	761.7	76	24.4		nne.			4		4	nne.						d. clouds.
H. M. S. Arab, Jask, Persia	29.52	749.8	88.5	31.4	82	sw.			2		3							misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.06	763.5	59.5	15.3		ese.			4		3	ese.						squally.
H. M. S. Cleopatra, N. 44° 26′, E. 137° 40′	29.96	761.0	68	20.0	100	sse.			1		10					1	sse.	overcast.
H. M. S. Comus, Esquimalt, Vancouver Island	30.20	767.1	55	12.8	73	calm			0		4							d. clouds.
H. M. S. Diamond, S. 10° 15′, E. 161° 42′	29.96	761.0	77	25.0	86	calm			0		0							blue sky.
H. M. S. Dido, N. 17° 44′, W. 76° 18′	30.12	765.0	82	27.8		e.			5		4	e.				4	e.	d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.08	764.0	80	26.7	84	w.			1		3	w.						d. clouds.
H. M. S. Emerald, N. 47° 35′, W. 10° 40′	29.79	756.7	64.5	18.1	100	sse.			1–2		4	sse.				1–2	ene.	misty.
H. M. S. Flying Fish, N. 32° 44′, E. 129° 52′	29.72	754.9	81.5	27.5	85	ne.			2		6							d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.00	762.0	59.5	15.3	91	se.			2		10							d. clouds.
H. M. S. Garnet, N. 46° 40′ W. 15° 15′	29.90	759.4	66	18.9	84	calm			0		8							d. clouds.
H. M. S. Griffon, N. 47° 33′, W. 58° 23′	29.94	760.5	61.5	16.4	83	sw.			1		0							blue sky.
H. M. S. Iron Duke, N. 42° 36′, E. 132° 34′	29.99	761.7	66	18.9	94	sse			1–2		10							d. clouds.
H. M. S. Lark, S. 1° 16′, E. 161° 35′	30.01	762.2	77.3	25.2	88	e.			2		5					1	e.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.92	760.0	58	14.4		s.			1									blue sky.
H. M. S. Magpie, N. 35° 07′, E. 128° 40′	29.87	758.7	79.5	26.4	79	e.			1		10							d clouds.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.93	760.2	79.5	26.4	66	nnw.			2		0							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.97	761.2	64	17.8	86	wnw.			1		7	w.						d. clouds.
H. M. S. Orontes, N. 33° 45′, E. 22° 20′	30.03	762.7	78.5	25.8	90	nw.			2		3	wnw.				1	wnw.	blue sky.
H. M. S. Pegasus, N. 1° 17′, E. 103° 52′	29.82	757.4	83	28.3	83	calm			0		3							d. clouds.
H. M. S. Sappho, Honolulu, Sandwich Islands	30.07	763.8	76	24.4	95	calm			0		6							drizzling.
H. M. S. Swiftsure, S. 48° 10′ W. 77° 00′	30.30	769.6	45	7.2	92	sse.			5-6		7	sse.				5	ssw.	showery.
H. M. S. Sylvia, Montevideo, Uruguay	29.92	760.0	62	16.7	95	ne.			1		0							blue sky.
H. M. S. Tenedos, N. 49° 27′ W. 56° 09′	29.85	758.2	67	19.4	84	wsw.			2–3		1							blue sky.
H. M. S. Triumph, S. 37° 09′, W. 55° 09′	29.96	761.0	50	10.0	100	ese.			1		10	calm				7	nne.	foggy.
H. M. S. Tyne, N. 48° 57′, W. 4° 26′	29.82	757.4	65	18.3	89	ene.			3–4		5	ene.				1	ne.	misty.
H. M. S. Woodlark, Muscat, Arabia	29.55	750.6	88.5	31.4	72	nne.			1		0							blue sky.
Portuguese Naval.																		
Rio Lima, N. 14° 35′, W. 22° 15′	30.11	764.7	79.7	26.5	88	nw.			3		5			8 h'r	8 h'r	3		raining.
Tamega, Macao, China	29.77	756.2	82.4	28.0	79	e.			2		0							
United States Naval.																		
Navy Yard, Pensacola, Fla	29.94	760.5	77	25.0	91	se.	1	0.4			10		se.	0.17	4.3			cloudy.
Navy Yard, Portsmouth, N. H.	29.93	760.2	70	21.1	80	sw.	1	0.4			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.97	761.2	76	24.4	91	ssw.			1		8		ssw.	0.07	1.8			cloudy.
Adams, Mare Island, Cal			61	16.1	82	sw.			2		0			0	0	sm'h		clear.
Alaska, S. 5° 31′, W. 112° 36′	29.93	760.2	76	24.4	86	se.			3		5		se.	0	0	long	s.	fair.
Alliance, N. 43° 13′, W. 69° 40′	30.06	763.5	67	19.4	95	sw.			2		8			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan*	30.02	762.5	78	25.6	91	sw.			1		10		ssw.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.34	770.6	67	19.4	100	n.	6	2.7			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	30.09	764.3	71	21.7	75	s.	7	3.1			10			0	0			overcast.
Constellation, N. 38° 56′, W. 72° 48′*	30.17	766.3	74	23.3	72	ene.			2		8		nw.			sm'h		fair.
Essex, Coquimbo, Chili	29.92	760.0	59	15.0	82	wsw.			1		2		wsw.			sm'h	wsw.	clear.
Franklin, Norfolk, Va	30.10	764.5	76	24.4	100	sw.	4	1.8			5		sw.	0.04	1.0			fair.
Galena, N. 22° 04′, W. 22° 56′	30.02	762.5	79	26.1	91	ne.			3		8					mod.	ne.	fair.
Independence, Mare Island, Cal	29.91	759.7	59	15.0	?	sw.			2		0			0	0			clear.
Iroquois, Magdalena Bay, Cal	30.06	763.5	70	21.1	90	nw.			1		2		nw.	0	0			fair.
Kearsage, Norfolk, Va	30.09	764.3	77	25.0	95	ssw.			1		5		sw.					fair.
Lackawanna, Callao, Peru*	30.00	762.0	61	16.1	88	se.			1		10							misty.
Lancaster, Villafranca, France*	30.03	762.7	83	28.3	67	s.			1		2		calm	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	29.88	758.9	64	17.8	100	calm			0		0			0	0	sm'h		clear.
Michigan, Chicago, Illinois	29.95	760.7	63	17.2	78	ssw.			3		10							cloudy.
Minnesota, off New York, N. Y.	30.13	765.3	70	21.1	70	ssw.	3	1.3			8							
Monocacy, N. 37° 25′, E. 123° 18′	29.84	757.9	76	24.4	86	sse.			3		2		se.			sm'h		fair.
New Hampshire, Newport, R. I.	30.14	765.5	70	21.1	90	sw.			3		10					sm'h		cloudy.
Nipsic, Villafranca, France*	30.04	763.0	80	26.7	62	ssw.			1		0					sm'h		clear.
Onward, Callao, Peru†	30.13	765.3	59	15.0	94	sse			2		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.98	761.5	76	24.4	91	ne.			1		10		ne.					cloudy.
Passaic, Washington, D. C.	30.16	766.1	71	21.7	?	se.			1		10							rainy.
Pensacola, Panama, Panama*	29.84	757.9	79	26.1	78	nw.	1	0.4			8			light	light	sm'h		cloudy.
Portsmouth, N. 36° 55′, W. 0° 52′*	29.94	760.5	76	24.4	95	e.			3		8					sm'h		cloudy.
Powhatan, Norfolk, Va	30.08	764.0	78	25.6	91	sw.			2		5		sw.					fair.
Quinnebaug, Alexandria, Egypt*	29.90	759.4	79	26.1	66	nnw.			3		0					sm'h		clear.
Ranger, Mare Island, Cal	29.91	759.7	63	17.2	78	sw.			1–2		2			0	0			fair.
Richmond, Yokohama, Japan*	30.03	762.7	78	25.6	95	ssw.			1		10			1.5	38.			cloudy.
Saratoga, N. 41° 25′, E. 5° 10′	30.04	763.0	75	23.9	95	sse.			2–3		8		se.	0	0	sm'h		clear.
St. Louis, League Island, Pa	30.35	770.9	70	21.1	85	s.			2		10			0.03	0.8			cloudy.
Swatara, Hong Kong, China*	29.69	754.1	80	26.7	91	e.			1		10		s.			sm'h		cloudy.
Tennessee, N. 43° 05′ W. 69° 43′	30.07	763.8	68	20.0	84	sw.	18	8.0			8			0	0			cloudy.
Vandalia, Portsmouth, N. H*	30.04	763.0	64	17.8	83	sw.			1		10		calm					cloudy.
Wabash, Boston, Mass	30.09	764.3	66	18.9	84	wsw.	5	2.2			8		w.					cloudy.
Wachusetts, Fort Wrangle, Alaska †	30.23	767.8	54	12.2	100	wsw.			1		10					sm'h		cloudy.
Wyoming, Port Royal, S. C*	30.07	763.8	76	24.4	82	calm	0	0			2		calm	0	0			clear.
Yantic, N. 43° 13′, W. 69° 30′	30.07	763.8	66	18.9	89	wsw.			3		8					sm'h		fair.
Merchant Marine.																		
Allan Line.																		
S. S. Grecian, N. 39° 15′ W. 9° 55′*	30.01	762.2	69	20.6		sw.			4		1		w.	1 h'r	1 h'r	mod.	wsw.	clear.
S. S. Polynesian, N. 56° 01′, W. 18° 10′*	29.44	747.8	66	18.9		n.			5		3		n.	2 h'r	2 h'r	mod.	w.	clear.
S. S. Scandinavian, N. 44° 06′ W. 56° 03′	29.85	758.2	67	19.4		s.			3		10			0	0	light	sse.	drizzling.
American Steamship Company.																		
S. S. British Crown, N 41° 20′, W. 65° 57′†	30.15	765.8	67	19.4		wsw.			3		0			0	0	sm'h		clear.
S. S. Lord Clive, Philadelphia, Pa.*†	30.05	763.3				sw.			1		10			0	0			
S. S. Lord Gough, N 50° 51′ W. 22° 46′	29.72	754.9	61	16.1		nw.			6		10		nw.	4 h'r	4 h'r	mod.	wnw	cloudy.
S. S. Ohio, Philadelphia, Pa. †	29.92	760.0	68	20.0	94	sw.			3		10		sw.					cloudy.
Amsterdam Line.																		
S. S. Jason, N. 45° 00′, W. 35° 48′ *	30.24	768.0	71.6	22		wnw.			1	3 c						1	w.	
Anchor Line.																		
S. S. Alexandria, Palermo, Sicily	30.05	763.3	78	25.6		ene.			3		2		ene.	0	0			clear.
S. S. Assyria, N. 49° 34′, W. 8° 21′†	29.89	759.2	64	17.8		e.			2		10		e.	0	0	sm'h		cloudy.
S. S. Bolivia, N. 44° 18′, W. 51° 53′ *†	30.16	766.1	67	19.4		sw.			3		8		sw.	0	0	long	sw.	foggy.
S. S. Dorian, Boston Mass*	29.92	760.0																
S. S. Ethiopia, N. 50° 47′, W. 38° 54′	30.05	763.3	56.5	13.6	87	n.			4		6		nne.	4 h'r	4 h'r	mod.	nw.	cloudy.
Atlas Line.																		
S. S. Ailsa, Colon, U. S. C.†	30.02	762.5	79	26.1	86	ne.			2		5		ne.	14 h'r	14 h'r	long	ne.	dull.
S. S. Alene, Cartegena, U. S. C.†	29.89	759.2												0	0			clear.
S. S. Alpin, Maracaybo, Venezuela	29.89	759.2				ene.			2		4		ese.	0	0			hazy.
S. S. Antillas, Ponce Porto Rico, W. I.	29.95	760.7	86	30.0		se.			2		5?		se.					clear ?
British Meteorological Office.																		
Auckland, S. 41° 49′, E. 41° 55′	30.28	769.1	44	6.7	76	w.			4		9							overcast.
S. Baroda, N. 4° 30′, W. 22° 09′	30.07	763.8	75.3	24.1	85	sw.			4		8							misty.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Meteorological.—Continued.																		
S. S. Olpero, N. 43° 01′, W. 28° 59′	30.10	764.5	67.7	19.8	90	wnw.			4		9							overcast.
Bk. Commewyne, N. 46° 13′, W. 29° 05′	29.98	761.5	64	17.8	89	nnw.			4		10							misty.
S. S. City of Agra, S. 40° 26′, E. 10° 10′	30.00	762.0	53	11.7	86	wnw.			5		9							d. clouds.
S. S. Gordon Castle, N. 40° 12′, W. 64° 54′	30.15	765.8	78	25.6	49	nne.			1–2		1							blue sky
S. S. Humboldt, S. 34° 37′, W. 58° 04′	29.90	759.4	59.0	15.0	76	ese.			2		9							overcast.
Bkt. May Hulse, N. 40° 05′, W. 39° 12′	30.31	770.6	74.5	23.6	68	n.			1		2							blue sky
S. S. Minho, S. 12° 39′, W. 37° 57′	30.25	768.3	76.8	24.9	83	se.			4		6							showery.
S. Oamaru, N. 9° 00′, W. 25° 00′	30.04	763.0	78.3	25.7	86	w.			5									heavy rain.
California and Mexican Steamship Company.																		
S. S. Mexico, N. 26° 02′, W. 110° 43′.*†	29.94	760.5	83	28.3	87	se.			3		0					sm'h		clear
Cromwell Line.																		
S. S. Hudson, N. 28° 20′ W. 79° 50′†	30.15	765.8	80	26.7		nw.			5		8		nne.	2 h'r	2 h'r	mod.	n.	overcast.
Cunard Line.																		
S. S. Bothnia, N. 41° 51′, W. 55° 14′	30.12	765.0	81	27.2	87	s.			3		2		s.	0	0		s.	clear.
S. S. Gallia, N. 42° 10′, W. 57° 31′	30.08	764.0	74	23.3	90	wnw.			2					0	0			clear.
S. S. Marathon, N. 37° 10′, E. 5° 05′	29.99	761.7	87	30.6		ene.			2		1		ene.	0	0	sm'h	ene.	clear.
S. S. Scythia, off Saltee I'd, Ireland	30.15	765.8	64	17.8	89	se.			1		2		calm	0	0			hazy.
Donaldson Line.																		
S. S. Colina, N. 48° 15′, W. 34° 17′†	30.20	767.1				nne.			4		6		ne.			long	wsw.	clearing.
General Trans-Atlantic Company.																		
S. S. France, N. 42° 46′, W. 51° 56′†	30.15	765.7	66.2	19		wsw.			1	ck		wsw.		0	0	sm'h	wsw.	hazy.
S. S. Ville de Marseilles, N. 39° 48′, W. 57° 55′*†	30.15	765.8	77	25.0		s.			3		8		wsw.	1 h'r	1 h'r	mod.	sw.	cloudy.
Guion Line.																		
S. S. Arizona, N. 41° 54′, W. 63° 06′	30.12	765.0	68	20.0		w.			2		0			0	0	sm'h		blue sky.
Hamburg American Packet Company.																		
S. S. Cimbria, N. 48° 46′, W. 33° 40′	30.13	765.3	59	15.0		wnw.			3		10		nw.	0	0	mod.	nw.	cloudy.
S. S. Gellert, N. 49° 45′, W. 0° 59′	30.75	781.0	69	20.6		wnw.			3		10		sw.	0	0	sm'h		covered.
S. S. Herder, N. 41° 39′, W. 57° 26′*	29.80	756.9	80	26.7		ssw.			3		3?		wsw.	2 h'r	2 h'r	mod.	s.	cloudy.?
S. S. Silesia, Hamburg, Germany	30.10	764.5	74.1	23.4		se.			3		3		se.	0	0			fair.
S. S. Westphalia, N. 42° 37′ W. 63° 02′	30.05	763.3	69	20.6	90	wnw.			3		1		wnw.	0	0	sm'h	nw.	fair.
S. S. Wieland, N. 49° 29′, W. 14° 55′	29.78	756.4	66	18.9		ssw.			3		7		ssw.	0	0	2	s.	cloudy.
Inman Line.																		
S. S. City of Berlin, N. 51° 30′, W. 15° —′	29.72	754.9				wsw.			4		1		wnw.	0	0			fine.
Lampert and Holt's Line.																		
S. S. Archimedes, N. 41° 40′ W. 47° 04′†	30.35	770.9				s.			2		1		calm	0	0	light	se.	fine.
S. S. Hevelius, Montevideo, Uruguay*†	30.04	763.0	53	11.7		se.			3		6?		wsw.	0	0			clear?
Leyland Line.																		
S. S. Bulgarian, N. 48° 31′, W. 34° 06′*	30.16	766.1				ne.			3		2?		ne.	1 h'r	1 h'r	light	nw.	cloudy.?
Mallory Line.																		
S. S. City of San Antonio, Matanzas, Cuba, W. I*†	30.22	767.6				calm			0		0?			0	0			fair.?
S. S. Colorado, N. 24° 24′, W. 81° 38′†	30.10	764.5	81	27.2		ene.			3		3		ene.	0	0	mod.	ene.	clear.
Mediterranean and New York Steamship Co.																		
S. S. Archimede, N. 37° 21′, W. 0° 27′*†	30.04	763.0	80	26.7	70	ese.			3		8		se.	0	0	sm'h	ne.	fair.
Merchants' Express Line.																		
S. S. Freja, N. 47° 58′, W. 27° 09′†	29.93	760.2	68	20.0	90	n.			6		8		w.	6 h'r	6 h'r	mod.	nw.	squally.
S. S. Hermod, N. 40° 21′ W 69° 15′†	30.16	766.1	82.4	28		ssw.			2		8		sw.	0	0	sm'h	w.	fair.
Merchants' Steamship Company.																		
S. S. Glenapp, Para, Brazil †	29.97	761.2				var.			1		2		e.	0	0			fine.
Morgan Line.																		
S. S. Chalmette, Mississippi river†	30.13	765.3	85	29.4		s.			1		10		s.	3 h'r	3 h'r	sm'h		cloudy.
S. S. New York, N. 25° 38′, W. 79° 55′ †	30.23	767.8	83	28.3		calm			0		2					sm'h		clear.
National Line.																		
S. S. Canada, N. 49° 49′, W. 11° 57′†	29.87	758.7				sse.			4		2		e.	0	0	sm'h	n.	clear.
S. S. Denmark, N. 47° 30′ W. 28° 30′	29.98	761.5	63	17.2		nw.			5		10		nnw.	1½ h'r	1½ h'r	mod.	nw.	showery.
S. S. England, N. 50° 08′, W. 22° 37′	29.79	756.7				wnw.			6		10		w.	5 h'r	5 h'r	mod.	w.	showery.
S. S. Erin, Liverpool, Eng.	30.02	762.5	71	21.7		wsw.			2		2		wsw.	½ h'r	½ h'r			fine.
S. S. The Queen, N. 40° 32′, W. 58° 15′	30.07	763.8	74	23.3		calm			0		5		calm	0	0	long	se.	fair.
New York, Havana and Mexican Mail.																		
S. S. City of Alexandria, New York, N. Y †	30.12	765.0	70	21.1	85	sw.			3									cloudy
S. S. City of Puebla, N. 32° 05′, W. 75° 56′†	30.07	763.8	85	29.4		s.			2		5		s.			light	sw.	fair.
S. S. City of Washington, Havana, Cuba, W. I*†	30.15	765.8	86	30.0		calm			0		2		ene.	0	0	sm'h		fine.
North German Lloyd																		
S. S. America, N. 47° 34′, W. 28° 13′*	30.00	762.0	64.0	17.8	83	nnw.			6		9		nw.	3 h'r	3 h'r	r'gh	nw.	showery.
S. S. Graf Bismarck, N. 19° 11′, W. 22° 11′	29.99	761.7	78.8	26.0		se.			3		3?		ne.	0	0	mod.	ne.	cloudy?
S. S. Hohenstaufen, N. 40° 21′, W. 61° 20′	30.07	763.8	78.8	26.0		nne.			4		8		se.	0	0	2	nne.	fair.
S. S. Koln, N. 43° 08′, W. 49° 38′*	30.24	768.1	65.5	18.6	86	s.			1					0	0	sm'h	s.	foggy.
S. S. Main, N. 50° 28′, W. 12° 22′	29.72	754.9				s.			3		6?		sw.	0	0	mod.	se.	clear?
S. S. Neckar, N. 47° 36′ W. 31° 13′	30.09	764.3	60	15.6	100	nw.			5		7		nw.	2 h'r	2 h'r	long	wnw.	fair.
S. S. Ohio, Baltimore, Md	30.10	764.5				calm			0		8		w.	2 h'r	2 h'r			cloudy.
Occidental and Oriental Steamship Company.																		
S. S. Belgic, Yokohama, Japan †	30.24	768.1	82	27.8	83	sw.			3		0			0	0			clear.
S. S. Coptic, N. 37° 43′ E. 145° 34′	30.17	766.3	72.5	22.5	98	ne.			1		4		ne.	0	0	2	ne.	d. clouds.
S. S. Gaelic N. 28° 02′, E. 124° 25′.†	29.79	756.7	81	27.2	91	ene.			4		4		ne.			slight	se.	fine.
Ocean Steamship Company.																		
S. S. City of Augusta, New York, N. Y.†	30.13	765.3				sw.			1		10?			0	0			clear ?
S. S. Seminole, N. 35° 00′, W. 75° 25′ †	30.22	767.0	87	30.6	80	calm			0		2			0	0	sm'h	ene.	clear.
Oregon Railway and Navigation Company.																		
S. S. Columbia, N. 40° 30′, W. 124° 36′.†	29.87	758.7	53	11.7	86	nnw.			4		0					mod.	nnw.	hazy.
S. S. Oregon, San Francisco, Cal.†	29.87	758.7	57	13.9	94	calm			0		0							hazy.
Pacific Coast Steamship Company.																		
S. S. Ancon, San Francisco, Cal†	29.82	757.4	55	12.8	93	wnw.			2		5		nw.					fair.
S. S. City of Chester, off Santa Monika, Cal*†	29.86	758.4	67	19.4	89	e.			2		10		nw.			sm'h	nw.	hazy
S. S. Idaho, N. 41° 23′ W. 124° 53′†	30.10	764.5	57	13.9	87	n.			7		2		wsw.	0	0	mod.	wnw.	clear.
S. S. State of California, Portland, Oregon †	30.19	766.8	53	11.7	100	e.			1		10		n.					fair.
S. S. Victoria, San Francisco, Cal†	29.82	757.5	55	12.8	87	ne.			1					0	0	sm'h		fair.
Pacific Mail Steamship Company.																		
S. S. Australia, N. 33° 56′ E 164° 15′	29.92	760.0	59	15.0	88	e.			3		1		se.	0	0	long	se.	clear.
S. S. City of New York, Sydney, N. S. W. †	29.98	761.5	57	13.9	69	w.			1		8		sw.	4 h'r	4 h'r			cloudy.
S. S. City of Pekin, N. 46° 54′, E. 176° 35′†	30.57	776.5	54	12.2	87	nw.			3		10		nw.	0	0	sm'h		overcast
S. S. City of Rio de Janeiro, N. 22° 57′, W. 109° 13′ *†	30.16	766.1	81	27.2	83	wsw.			2		5		w.	0	0	mod.	sw.	fair.
S. S. City of Tokio, N. 22° 20′, E. 115° 10′†	29.82	757.4	83	28.3	83	ese.			2		0			15 h'r	15 h'r	mod.	se.	fine.
S. S. Colima, N. 17° 48′, W. 102° 51′†	29.95	760.7	75	23.9	86	s.			6		9		s.	0.05	1.3	mod.	sse.	thund'r st'm.
S. S. Colon, Aspinwall, Panama.†	29.95	760.7	86	26.7		wnw.			1		10		nne.	2 h'r	2 h'r	sm'h		overcast.
S. S. Costa Rica, N. 16° 30′ W. 99° 10′*	29.87	758.7	79	26.1	95	sw.			4		10		ne.	3 h'r	3 h'r	small	s.	fair.
S. S. Grenada, N. 7° 24′ W. 80° 02′†	29.90	759.4	78	25.6	91	wsw.			2		8		sw.	1 h'r	1 h'r	sm'h	sw.	rainy.
S. S. Zelandia, S. 4° 36′, W. 167° 06′	29.99	761.7	82	27.8	91	e.			3		0					sm'h		clear.
Quebec S. S. Company.																		
S. S. Muriel, Barbadoes, W. I	30.06	763.5	82	27.8		ene.			3		5			light	light	sm'h		fair.
Red D Line.																		
S. S. Valencia, La Guayra, Venezuela*†	30.20	767.1	81	27.2	78	ene.			4		5		se.	1 h'r	1 h'r	sm'h	ne.	raining.
Red Star Line.																		
S. S. Belgenland, Philadelphia, Pa.†	30.24	768.1	73	22.8	90	se.			4		8		se.	0	0			
S. S. Pennland, N. 44° 08′, W. 41° 46′	30.27	768.8				wnw.			5		2		wnw.	0	0	sm'h	nw.	cloudy.
S. S. Rhynland, Antwerp, Belgium*†	30.38	771.6	71	21.7	75	nw.			3		4		nw.	0	0			fair.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Red Star Line.—Continued.																		
S. S. Switzerland, N. 39° 27′ W. 65° 59′†	30.23	767.8				wnw.			2		0			0	0	sm'h		clear.
S. S. Vaderland, N. 45° 06′, W. 36° 50′	30.00	762.0	69	20.6	95	nw.			3		10		nw.	0	0	sm'h	nw.	overcast.
S. S. Waesland, New York, N. Y	30.07	763.8	71	21.7	71	sw.			3		10		ssw	0	0			cloudy.
Rotterdam Line.																		
S. S. Edam, N. 49° 40′, W. 23° 19′	29.74	755.4	65.4	18.6	97	w.			6		8		w.	4 h'r	4 h'r			cloudy.
Royal Mail Steam Packet Co.																		
S. S. Belize, N. 20° 07′, W. 74° 11′	30.11	764.8	83.5	28.6		e.			2		2		e.	0	0	gentle	e.	clear.
State Line.																		
S. S. State of Florida, N. 40° 46′, W. 64° 44′	30.10	764.5	70	21.1		ne.			2		2			0	0	sm'h		fair.
S. S. State of Indiana, N. 46° 59′, W. 58° 50′†	30.24	768.1	62	16.7		ssw.			4		8		ssw.	4 h'r	4 h'r	sm'h		foggy.
Thingvalla Line.																		
S. S. Thingvalla, N. 40° 51′, W. 72° 08′†	30.36	771.1	75.2	24.0	64	wsw.			2		3		wsw.	0	0	long	wsw.	clear.
Warren Line.																		
S. S. Iowa, N. 50° 48′ W. 15° 30′*†	29.85	758.2	65	18.3		s.			4		7		s.	0	0	sm'h		cloudy.
White Cross Line.																		
S. S. Plantyn, N. 40° 28′, W. 73° 58′	30.11	764.8	81	27.2					2		4			0	0			fine.
White Star Line.																		
S. S. Adriatic, N. 49° 56′, W. 30° 31′*†	30.15	765.8	55	12.8	87	nw.			4		10		wnw.	16 h'r	16 h'r	mod	wnw.	cloudy.
S. S. Britannic, Off Fire Island, N, Y.†	30.17	766.3	72	22.2	90	wsw.			2		8		wsw.	0	0	sm'h		d. clouds.
S. S. Celtic, New York, N. Y†	30.17	766.3	73	22.8	85	sw.			1		10			0	0			overcast.
Wilson Line.																		
S. S. Romano, Boston, Mass	30.00	762.0	66	18.9		calm			0		10			0	0			fine.
Winsor Line.																		
S. S. Catherine Whiting, Providence' R. I.†	30.12	765.0	76	24.4		wsw.			1				nw.	0	0			
Miscellaneous.																		
Bk. Adelaide, N. 34° 29′, W. 56° 40′*†..	30.18	766.6	82	27.8		e.			5		1		e.	0	0	mod.	e.	fair.
Bk. Alpha, Off Lindesnaes, Norway†	30.11	764.8	68	20.0		se.			2		4		s.	0	0	long	nw.	fair.
Schr. Anna R. Holton, N. 37° 41′, W. 75° 08′†	30.11	764.8	78	25.6		ese.			1		0			½ h'r	½ h'r	mod	se.	drizzling.
Bk. Anna Thormann, S. 32° 29′ E. 101° 29′	29.85	758.1	51.3	10.7	85	s.			7		5 k;n		ssw.	sh'rs	sh'rs	high	sw.	squally.
S. S. Antonio Lopez, N. 24° 50′, W. 57° 52′*	30.14	765.5	82	27.8	78	ne.			1		1			0	0	sm'h		clear.
Bk. Argonaut, N 41° 08′ W. 66° 11′*†	30.17	766.3	64.8	18.2		w.			1		10		n.	0	0	sm'h	sw.	fair.
Bk. Aureola, N. 8° 49′. W. 42° 20′*†	30.05	763.3	75	23.9		ssw.			1		7		sw.	0	0	sm'h	sw.	cloudy.
Bk. B. F. Watson, N. 27° 13′ W. 38° 11′†	30.15	765.8	80	26.7		calm			0		6		e.	12 h'r	12 h'r	sm'h	nw.	fair.
Bk. Bergenseren, N. 44° 45′ W 47° 50′†	30.21	767.4				ssw.			3		fg.			0	0	2	ssw.	dense fog.
Bk. Bremen, N. 54° 19′, W. 26° 40′*†	29.94	760.5				nw.			5		10		nw.	0	0	cross	ssw.	cloudy.
Bk. Cato, Malmö, Sweden*†	30.37	771.4				nw.			4									clear.
Bk. Celestina, N. 12° 34′, W. 25° 27′*†	29.97	761.2				nw.			2		0			0	0	sm'h		clear.
S. Cornelius, N 49° 09′, W. 9° 31′*†.	30.04	763.0	59.7	15.4		sse.			1		10		se.	0	0	sm'h	se.	cloudy.
S. Dora, S. 3° 30′, W. 25° 00′†	30.15	765.8	78.8	26.0		sse.			3–5		8 k		ese.			r'gh	se.	squally.
Schr. Edith R. Seward, Baltimore, Md*†	30.18	766.6	74	23 3		sse.			2		7		s.	0	0			cloudy.
S. E. J. Spicer, N. 40° 42′, W. 64° 00′*	30.13	765.3	74	23.3		ne.			3		0			0	0	sm h		clear.
S Enoch Train, N. 50° 38′, W. 10° 59′†	30.00	762.0				sse.			3		9		s.	0	0	sm'h		fine.
Bk. Essex, N. 6° 40′ E. 50° 40′*†	29.85	758.2	78	25.6		s			5		4		ssw.	0	0	mod	ssw.	hazy.
Bk. Franklin, N. 59° 08′. E. 0° 22′*†	30.13	765.3				s.			4		5			0	0	sm'h		fair.
Bk. Freya, N. 36° 30′, W. 73° 33′			82	27.8		se.			4		5		ssw	0	0	sm'h		squally.
S. Glendon, N. 39° 15′ W. 55° 06′†	30.17	766.3	86	30.0		e.			2		9		ese.	0	0	sm'h		fair.
Bk. Godefroy, N. 34° 39′ W. 17° 45′	30.09	764.3	71.1	21.7	75	wnw.			2		4		nw.	0	0	sm'h	nw.	fair.
S. Grecian, N. 15° 00′, E. 110° 40′*†	29.75	755.6	85	29.4		sse.			5		0			0	0	sm'h	sw.	clear.
Bk. Gronsvaer. N. 28° 20′, W. 37° 30′†	30.14	765.5				se.			4		10		se.	10 h'r	10 h'r	sm'h		misty.
Bk. Hattie G. McFarland, Bath, Maine*†	30.08	764.0	68	20.0		se.			1		9		n.	0	0			showery.
Schr. Hattie Weston, N. 24° 09′, W. 70° 10′*†	30.22	767.6	84	28.9		se.			2		8		s.	0	0	long	se.	fair.
Bk. Heinrich & Tonio, N. 43° 40′, W. 26° 05′*†	30.23	767.8	69.5	20.8		nw.			4		10 n		nw.	4 h'r	4 h'r	mod.	nw.	cloudy.
Schr. Henry Denison, N. 35° 47′, W. 74° 56′†	30.08	764.0				sse.			5								se.	fair.
Bk. Horace Scudder, Port of Spain W. I†	30.10	764.5	84	28.9		calm.			0		8		calm	0	0			
S. Ivy, S. 42° 35′, W. 99° 46′†	31.04	788.4	44	6.7		ese.			3		7		se.	0	0	sm'h	se.	cloudy.
S. Ismir, S. 2° 08′, E. 166° 40′†	29.32	744.7				e.			2		6		e.	0	0	sm'h		fine.
Schr. James Slater, N 37° 50′. W. 73° 50′*†	30.38	771.6	79	26.1		se.			1		10			0	0	light	se.	threatening
Bk. Johanne, N. 40° 41′, W. 65° 34′*†	30.15	765.8	74	23.3		w.			1		5		w.	0	0	sm'h		hazy.
Bg. John Wesley, N. 19° 25′, W. 75° 34′†	29.87	758.7				ne.			3		0			0	0	mod.	ese.	hazy.
Bk. Joseph A. Ropes, S. 39° 00′, E. 10° 00′*†	30.08	764.0	57	13.9	81	nw.			5		8		nw.	0	0	mod.	w.	cloudy.
Bkt. Josephine, Havana, Cuba, W. I.†	30.09	764.3	81	27.2	78	ne.			2		5			0	0			fair.
S. S. Lamperts, N. 36° 28′, W. 4° 00′*	29.91	759.7	72.4	22.4	87	var.			1		2 k							d. clouds.
Light House Tender, Laurel, Key West, Fla†	30.14	765.5	86	30.0		ese.			1		5		se.	1 h'r	1 h'r			fair.
Bk. Liberia, N. 34° 30′, W. 68° 00′*	30.03	762.7	83	28.3	87	calm			0		2			0	0			
Schr Maggie Abbott, Port au Prince, Hayti, W. I†	30.05	763.3												0	0			clear.
S. Minnie N. Gerow, N. 46° 36′, W. 18° 21′*†	29.92	760.0				w.			3		7		wnw.			sm'h	w.	fine.
S. M. P. Grace, S. 34° 02′, W. 93° 06′*	30.23	767.8	51	10.6		se.			6				se.	hail	hail	high	se.	
Bk. National Eagle, N. 39° 12′, W. 29° 56′†	30.18	766.6				nnw.			4		2		nne.	0	0	mod.	nne.	fair.
S. S. Nebo, Porman, Spain*†	29.88	758.9				e.			2		0			0	0			clear.
S. Oracle, N. 38° 40′, W. 60° 34′*	30.10	764.5	88	31.1	75	calm			0	1 c		calm						clear.
S. Orealla, N. 16° 22′, W. 35° 16′*	29.99	761.7				e.			3		0			0	0	sm'h		clear.
Bk. Rosebud, S. 36° 14′ E. 51° 20*†	30.05	763.3	58	14.4	76	wsw.			6		10		w.	shr's	shr's	sm'h		gloomy.
S. St. Francis, N. 33° 14′, W. 49° 17′†	30.00	762.0	79	26.1		s.			3		4		se.	0.5	13.	long	e.	fine.
Bk. Sunbeam, N. 39° 00′ W. 35° 01′†	30.38	771.6	74	23.3	90	n.			4		8		n.	0	0	sm'h		cloudy.
S. S. Sunbeam, N. 47° 12′, W. 5° 55′	29.85	758.2	65	18.3	94	calm			0		9		nw.			sm'h		misty.
S. Sovereign of the Sea, S. 45° 26′, W. 61° 57′*†	29.89	759.2	41	5.0	100	sw.			5		3		wsw.	2 h'r	2 h'r	sm'h	ssw.	fair.
Bg. Teneriffe, N. 28° 10′, W. 79° 45′	30.09	764.3				var.			1							sm'h		squally.
Bk. Truro, N. 39° 10′, W. 74° 15′*†	30.11	764.8				s.			1		10		w;s	0	0	sm'h		cloudy.
U.S.F.C.S.S. Fish Hawk, Woods Holl, Mass†	30.31	769.9	73	22.8	85	sw.			1		4		calm	0	0			fair.
Schr. Victor Ping, N. 29° 15′, W. 67° 30′*†	30.09	764.3				e.			4		1		s.			mod.	s.	fair.
Bk. Vincenzo Accame N. 37° 32′, W. 48° 46′†	30.47	774.0	84.2	29		se.			7		0							clear.
Schr Viola Reppard, N. 32° 52′, W. 78° 37′†	30.00	762.0	85	29.4		calm			0		2			0	0	sm'h		
Bg. Wauburn, N. 17° 00′ W. 72° 00′*†	30.10	764.5				e.			5		2		e.			mod.	e.	¾ covered.
Bk. Warden Law, N. 57° 40′. W. 1° 45′*	29.77	756.1				sw.			4				sw.	0	0	sm'h	ssw.	fair.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 13, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	29.98	761.6	80.6	27.0	77	s.	.....	.....	1	.....	3	.....	.....	0	0	pretty fair	Bouvier.
Algiers	.....	.....	29.95	760.8	88.2	31.2	44	wnw.	.....	.....	5	.....	0	.....	.....	0	0	cloudy	Thève.
La Galle	.....	.....	30.02	762.4	87.4	30.8	45	ene.	.....	.....	3	.....	1	.....	.....	0	0	very fair	Foufrède.
Tunis	.....	.....	30.05	763.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.06	763.5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Perés.
Tebessa	.....	.....	30.06	763.6	86.0	30.0	21	s.	.....	.....	1	.....	0	.....	.....	0	0	clear	Rigaud.
Geriville	.....	.....	.....	.....	92.8	33.8	10	sse.	.....	.....	5	.....	2	.....	.....	0.012	0.3	very fair	Lonchamp.
Laghouat	.....	.....	30.14	765.5	96.4	35.8	34	se.	.....	.....	1	.....	2	.....	.....	0	0	fair	Abraham.
Biskra	.....	.....	30.11	764.8	96.1	35.6	31	se.	.....	.....	2	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.31	769.9	30.40	772.1	45.9	7.7	90	nnw.	5	2.2	.....	.....	10	.....	.....	0.01	0.3	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.56	750.8	30.08	764.1	79.5	26.4	54	ne.	.....	.....	2	.....	2	.....	.....	0	0	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.39	746.4	30.12	765.1	76.3	24.6	59	e.	6.9	3.1	.....	.....	2	.....	.....	0	0	.....	Dr. Wierzbiski.
Eperies	29.23	742.5	30.07	763.8	78.3	25.7	47	calm	.....	.....	0	cs	3 s	.....	.....	0	0	.....	Julius Mikolik.
Gratz	28.84	732.4	30.04	763.0	72.1	22.3	82	sw.	.....	.....	3	.....	0	.....	.....	0	0	.....	Andreas Rospini.
Hermannstadt	28.68	728.5	30.04	763.0	78.8	26.0	50	se.	.....	.....	1	.....	3	.....	.....	0	0	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.72	729.4	30.00	762.1	75.6	24.2	67	ne.	.....	.....	1	.....	1	.....	.....	0	0	clear	The Staff.
Lemberg	29.18	741.2	30.13	765.2	74.8	23.8	63	ne.	.....	.....	1	.....	2	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.98	761.4	30.08	764.1	85.1	29.5	43	wsw.	.....	.....	1	.....	3	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.61	752.1	30.06	763.5	81.7	27.6	45	e.	.....	.....	1	.....	2	.....	.....	0	0	.....	Joseph Midlinszky, S. J.
Szegedin	29.81	757.2	30.08	764.0	76.6	24.8	.....	calm	.....	.....	0	.....	5	.....	.....	0	0	.....	Karl Stancel.
Trieste	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Royal Academy.
Vienna	29.40	746.8	30.08	764.1	78.1	25.6	52	se.	.....	.....	3	.....	2	.....	.....	0	0	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.70	754.4	29.80	756.9	63.0	17.2	81	sse.	11	4.9	.....	.....	7	.....	.....	0.060	1.5	d. clouds	W. Boswell
Armagh, Observatory	29.45	748.0	29.67	753.6	65.0	18.3	92	e.	4	1.8	.....	.....	.....	.....	.....	.....	.....	.....	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.68	753.9	74.0	23.3	59	s.	16	7.2	.....	.....	5	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.17	740.9	29.69	754.1	66.9	19.4	81	sse.	5	2.2	.....	.....	10	.....	.....	.....	.....	overcast	Thomas Mackereth.
Bradford, Yorkshire	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.02	0.5	.....	J. McLandsborough.
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	84.0	28.9	67	ne.	.....	.....	3	.....	2	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	29.77	756.1	72.4	22.4	71	sw.	.....	.....	1.0	.....	10	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.70	754.4	29.83	757.7	67.7	19.8	76	sw.	.....	.....	2	.....	10	.....	.....	.....	.....	gloomy	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.57	751.1	29.79	756.7	65.0	18.3	86	s.	.....	.....	3	.....	9	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	27.56	700.0	29.78	756.4	73.4	23.0	20	e.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.72	754.9	29.95	760.7	78.0	25.6	82	w.	.....	.....	2	.....	6	.....	.....	.....	.....	squally	Sergt. John Robinson.
Gibraltar, Mediterranean	29.97	761.2	30.03	762.7	78.4	25.8	77	e.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	Corpl. F. Norris, A. H.C
Glasgow, Observatory	29.38	746.2	29.58	751.3	61.4	16.3	91	ene.	.....	.....	4	.....	10 n	.....	.....	.....	.....	gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.66	753.4	29.83	757.7	68.0	20.0	77	sw.	.....	.....	.....	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.55	750.6	29.84	757.9	69	20.6	79	sse.	.....	.....	2	.....	4	.....	.....	blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.79	756.7	29.83	757.7	67.4	19.7	72	sw.	12	5.4	.....	.....	10	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.51	749.5	29.75	755.6	71.8	22.1	69	se.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.01	762.2	78.8	26.0	84	ne.	.....	.....	2	.....	2	.....	.....	.....	.....	blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.04	763.0	30.08	764.0	77.5	25.3	92	nw.	.....	.....	2	.....	10	.....	.....	blank	blank	overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.20	743.2	29.76	755.9	67.8	19.9	78	s.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	Warren Middleton.
Oxford, Radcliffe Obs'y	29.57	751.1	29.80	756.9	68.1	20.1	73	s.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	The Staff.
Plymouth	29.72	754.9	29.80	756.9	65.0	18.3	92	se.	.....	.....	1	.....	10	.....	.....	blank	blank	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.77	756.1	64.5	18.1	71	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.90	759.4	29.96	761.0	80.8	27.1	40	ne.	.....	.....	2	.....	7	.....	.....	blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.46	748.3	29.73	755.1	73.5	23.1	65	ssw.	.....	.....	2	.....	9	.....	.....	0.06	1.5	overcast	W. F. Cooper.
Silloth Rectory	29.63	752.6	29.66	753.4	67.0	19.4	81	se.	.....	.....	3	.....	5	.....	.....	0.060	1.5	gloomy	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.74	755.4	66.9	19.4	77	e.	7	3.1	.....	.....	10	.....	.....	.....	.....	overcast	I. New.
Stratfield Turgiss	.....	.....	.....	.....	62.8	17.1	94	s.	.....	.....	2	.....	10	.....	.....	.....	.....	d clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.77	756.1	29.77	756.1	72	22.2	71	sw.	.....	.....	4	.....	8	.....	.....	.....	.....	gloomy	W. Newcombe.
Valencia, Observatory	29.68	753.9	29.71	754.6	64.9	18.3	78	w.	11	4.9	.....	.....	0	.....	.....	.....	.....	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	29.76	755.9	29.80	756.9	67	19.4	87	ssw.	14	6.3	.....	0	5 s	.....	sw.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	29.66	753.4	29.72	754.9	62	16.7	90	s.	6	2.7	.....	.....	10 n	.....	s.	0.05	1.3	light rain	G. A. Blair.
Father Point, Quebec*	29.71	754.6	29.74	755.4	52	11.1	86	nw.	12	5.4	.....	0	2 s	.....	calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	28.83	732.3	29.62	752.3	59	15.0	93	e.	15	6.7	.....	.....	10 n	.....	e.	0.01	0.3	light rain	James Stewart.
Halifax, N. S*	29.79	756.7	29.91	759.7	62	16.7	90	s.	4	1.8	.....	.....	5 k	.....	sw.	0	0	cloudy	A. Allison.
Kingston, Ontario*	29.71	754.6	30.05	763.3	54	12.2	86	nw.	3	1.3	.....	4 c	0	nw.	.....	0.09	2.3	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.75	755.6	29.96	761.0	56	13.3	74	w.	9	4.0	.....	0	0	.....	.....	0.24	6.1	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.37	746.0	30.06	763.5	50	10.0	93	calm	0	0	.....	5 k	0	nw.	.....	0.03	0.8	fair	Rev. R. Mosley.
Port Dover, Ontario	29.37	746.0	30.05	763.3	60	15.6	94	ne.	7	3.1	.....	4 k	0	nw.	.....	inap.	inap.	fair	H. Morgan.
Port Stanley, Ontario	29.39	746.5	30.02	762.5	61	16.1	78	ne.	2	0.9	.....	2 k	8 k	nw.	nw.	inap.	inap.	cloudy	M. Payne.
Quebec, Quebec*	29.48	748.8	29.80	756.9	52	11.1	86	n.	.....	.....	5	0	2 s	.....	n.	0.08	2.0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.56	750.8	30.02	762.5	52	11.1	80	w.	2	0.9	.....	5 c	0	sw.	.....	0.10	2.5	fair	W. H. McIntyre.
Saugeen, Ontario*	29.33	745.0	30.04	763.0	55	12.8	80	se.	4	1.8	.....	8 ks	0	.....	.....	0.01	0.3	cloudy	
St. Andrews, N. B	29.09	754.1	29.75	755.6	61	16.1	94	sw.	3	1.3	.....	.....	fg	.....	.....	0	0	foggy	
Sydney, C. B*	29.87	758.7	29.93	760.2	63	17.2	90	sw.	10	4.5	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.71	754.6	30.09	764.3	55	12.8	90	n.	4	1.8	.....	5 cs	0	w.	.....	0.15	3.8	fair	Magnetic Observatory.
Yarmouth, N. S*	29.80	756.9	29.87	758.7	61	16.1	93	sw.	12	5.4	.....	3 k	hz.	sw.	.....	0	0	hazy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.68	728.5	30.16	766.1	50.0	10.0	93	w.	.....	.....	1	.....	fg	.....	.....	0	0	foggy	Wm. Wylie.
St. Johns, Newfoundland	29.88?	758.9?	30.12?	765.0?	73?	22.8?	72	sw.	.....	.....	.....	0	0	.....	.....	0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.97	761.2	29.99	761.7	62	16.7	74	wsw.	13.3	5.9	.....	6 ck	0	.....	.....	1.020	25.9	hazy	C. Hansen.
Cape Town, C. G. H. Obs'y	30.05	763.3	30.08	764.0	57.0	13.9	87	nw.	23	10.3	.....	9	9	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CHINESE (*Sub-series*).																			
Hankow																			
Zi-Ka-Wei, near Shanghai	29.72	755.0	29.75	755.6	77.0	25	86	nne.	0.3	2.8			0						N. Titoushkin.
DANISH.																			
Copenhagen	30.05	763.2	30.10	764.4	72.5	22.5	64	sse.	16	7			0			0	0	clear	M. Marc Dechevrens, S.J.
Fanöe	29.95	760.8	29.97	761.3	79.3	26.3	58	sse.			4		2						Oversergent Fischer.
Godthaab, Greenland	29.79	756.6	29.83	757.7	39.0	3.9	95	ssw.			4		10			0.004	0.1	foggy	Overloerer Lauridsen
Ivigtut	29.84	757.8	29.85	758.3	41.0	5.0		calm			0		2					raining	S. Kleinschmidt.
Stykkisholm, Iceland	29.54	750.3	29.58	751.4	39.9	4.4	85	e.			2		10						
Thorshavn	29.65	753.1	29.69	754.0	55.6	13.1	82	sw.	11	5			3						A. O. Thorlacius.
Vestervig	29.89	759.1	29.98	761.4	77.0	25.0	56	se.			6		3						Overloerer Bergh.
FRENCH.																			Loerarer Oesterbol.
Agen, Normal School	29.36	745.7	29.99	761.8	70.2	21.2	82	ese.			3		10 n		s.	0	0	covered	M. Labroue, Directo.
Alençon, Normal School	29.41	747.0	29.90	761.0	68.0	20	72	s.			1		n			0.51	13.0		M. Nicot, Director.
Arras, Engineer School	29.07	753.7	29.92	760.0	70.3	21.3	84	se.			2		10			0	0	stormy	M. Fénéon, Command't.
Avignon, Normal School	29.97	761.3	30.05	763.3	82.8	28.2	41	s.			1		10			0	0	covered	M. Giraud, Director.
Bar-sur-Seine	29.41	747.0	29.94	760.4	79.7	26.5	39	sw.			1		9			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.06	753.4	29.92	759.9	65.5	18.6	90	se.			1		10		s.	0.063	1.6	covered	M. Frère Eugène Maie.
Besançon, Normal School	29.06	738.1	29.91	759.8	79.2	26.2	86	ssw.			3		0			0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.09	754.1	29.94	760.5	71.1	21.7	83	s.			1		10		sse.	0.114	2.9	covered	M. Rayet, Director.
Bourges, Normal School	29.45	748.1	29.99	761.8	65.3	18.5	96	s.							s.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.62	752.4	29.87	758.6	72.0	22.2	72	sw.			3		9		sw.	0.012	0.3		M. de Kermaree, Dir.
Caen, Normal School	29.73	755.1	29.80	757.0	63.7	17.6	84	sw.			1		8		sw.	0.177	4.5	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch't	29.02	752.3	29.93	760.1	78.1	25.6	60	calm			0		5			0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.43	747.5	29.93	760.1	71.2	21.8	53	w.			3		5			0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.69	728.8	30.01	762.3	68.7	20.4	62	w.			2		10					light rain	M. Allnard, Director.
Cluny, Normal School	29.17	740.8	29.98	761.4	87.8	31	22	w.			3		8		ssw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.35	720.2	29.88	759.0	82.8	28.2	70	w.			3		cn	w.	w.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.52	698.9	29.93	760.3	80.6	27.0	27	n.			3	3 ck	0	n.		0	0		M. Jeanglard, Director.
Gréasque, du Rhone	28.99	736.4	30.00	763.6	81.7	27.6	30	s.			3		8		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.14	740.2	29.87	758.8	86.4	30.2	80	ne.			1		2 k	ne.	e.	0	0	slightly cl'dy	M. Ablard, Director.
Lamballe, Normal School					73.4	23	62	sw.			3		5		sw.	0.031	0.8	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.33	744.9	29.87	758.7	70.7	21.5	87	ne.			1		10			0.252	6.4	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.62	757.4	29.92	760.0	65.1	18.4	34	s.			2		10		s.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.98	736.0	29.99	761.7	84.7	29.3	27	s.			2	8 c	0	ssw.		0	0	al. covered	M. André, Director.
Mans, Normal School	29.05	753.1	29.95	760.7	66.6	19.2	81	w.			1		10		sw.	0.283	7.2	covered	M. Piboen, Director.
Marseille, Observatory	29.80	757.0	30.07	763.7	82.0	27.8	39	ese.			1		9		sw.	0.012	0.3		M. Stephan, Director.
Montlouis	24.95	633.7	29.79	756.7	59.0	15.0	74	sw.	15.0	6.7						0.102	2.0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.95	760.6	30.07	763.8	74.1	23.4	98	sse.			2		0			0.083	2.1	clear	M. Galzin, Director.
Nancy, Normal School	29.19	741.3	29.95	760.7	83.8	28.8	37	s.			1		2		s.	0	0	slightly cl'dy	M. Hasse, Director
Nantes, Observatory	29.81	757.2	29.97	761.3	74.7	23.7	69	ese.			1–2		9 kn		sw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.91	759.7	30.02	762.4	71.2	21.8	87	se.	3.8	1.7			10		ssw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.37	542.8			39.6	4.2		sw.			2.3		10		sw.	0.358	9.1	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.96	736.2	30.00	762.1	75.2	24.0	39	s.			1		5			0	0	cloudy	M. Tallien.
Puy de Dôme Obs'y, Summit	25.26	641.7			52.7	11.5	91	wsw.			2		10			0.020	0.5	raining	M. Allnard, Director.
Rochefort, Naval Obs'y	29.93	760.2	29.96	761.0	70.2	21.2	91	calm			0		10		sw.	0.08	2.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.72	754.8	29.92	760.0	73.4	23.0	73	s.			1		2		n.	0.303	7.7	slightly cl'dy	M. Monillot, Director.
Rodez, Normal School	27.97	710.5	30.05	763.3	64.9	18.3	90						10		sw.	0.063	1.6	covered	M. Seger, Director.
Rouen, Normal School	29.89	759.3	29.94	760.5	65.5	18.6	94	sw.			1		10	sw.		0.43	11.0	covered	M. Brotier.
Saint Maur, Observatory	29.81	757.2	29.98	761.4	66.4	19.1	91	se.			1		10		ssw.	0.354	9.0		M. Renou, Director.
Toulouse, Observatory	29.35	745.5	30.08	763.9	70.0	21.1	97	se.			1		10	w.		0.126	3.2	covered	M. Bailland, Director.
Tours	29.70	755.8	29.94	760.4	69.1	20.6	81	sw.			1		10		ssw.	0.079	2.0	rainy	M. de Tastes.
Versailles, Observatory	29.49	749.0	29.98	761.5	64.8	18.2	94	se.			1					0.917	23.3		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.69	754.1	29.98	761.5	65.1	18.4	99	se.			1		10			0.295	7.5	raining	M. Marié Davy, Director
GERMAN.																			
Ansbach	28.61	726.6	29.98	761.5	78.8	26.0	45	se.			2		1	se.		0	0		Prof. Jnedt.
Bamberg	29.18	741.1	30.03	762.8	81.1	27.3	38	s.			2	0	0			0	0		Prof. Dr. Hoh.
Berlin	29.87	758.6	30.04	762.9	81.5	27.5	39	se.			3		8			0	0		Prof. Dr. Arndt.
Breslau	29.04	752.9	30.18	766.5	79.0	26.1	41	sse.			2		1			0	0		Royal University Obs'y.
Carlsruhe	29.52	749.7	29.93	760.3	82.9	28.3	54	calm			0		9	sw.		0	0		Albert Senz.
Cassel	29.25	743.0	29.97	761.1	83.5	28.6	48	s.			2		2	s.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.00	751.9	29.94	760.5	85.3	29.6	46	sw.			2		3			0	0		Physical Society.
Friedrichshafen	28.01	726.6	29.98	761.6	73.0	22.8	71	sw.			2		0	ne.		0.110	2.8		Wilhelm, Chief Tel.
Hamburg	29.89	759.3	29.99	761.7	81.1	27.3	44	se.			2		2			0	0		E. Preller.
Kiel	29.98	761.5	30.00	761.9	74.1	23.4	57	ese.			1		1			0	0		Prof. Dr. G. Karsten
Leipsic, Astrom'l Obs'y	29.03	752.7	30.03	762.8	81.7	27.6	47	sse.			2		3	se.		0	0		H. Leppig, Asst.
Magdeburg	29.83	757.7	30.01	762.2	83.1	28.4	40	ese.			1	1 c	0	wnw.		0	0		Dr. Assmann.
Memel	30.21	767.3	30.20	768.5	70.5	21.4	69	nw.			2	0	0						Issermann.
Munich	28.25	717.5	30.11	764.9	78.3	25.7	47	ne.			1		2			0	0		Dr. C. Lang.
Neufahrwasser	30.18	766.5	30.19	766.9	71.6	22.0	76	ene.			1		1			0	0		A. Lottes.
Neustadt, Palatinate	29.40	746.8	29.93	760.1	82.0	27.8	71	calm			0		7			0	0		Dickuether.
Stuttgart	29.02	737.2	29.80	758.4	84.2	29.0	47	e.			4		0	w.		0.075	1.9		Prof. Dr. Schoder.
Wustrow	30.07	763.7	30.10	764.4	78.3	25.7	64	se.			2	0	3 8			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.63	752.6	30.00	762.0	81.7	27.6		n.			1.0		6			0.059	1.5		Schmidt & Wourlisch
INDIAN.																			
Kurrachee	29.59	751.6	29.64	752.9	82.0	27.8	85	wsw.	33.0	14.8			10			0	0	overcast	
Deesa	29.14	740.0	29.60	751.9	86.3	30.2	55	sw.	16.0	7.2			7	w.	w.	0	0	d. clouds	
Bombay	29.74	755.5	29.78	756.4	81.2	27.3	83	w.	19.0	8.5			10	w.	w.	0.05	1.3	overcast	
Poona, Yarrowda	27.91	709.0	29.77	756.2	76.0	24.4	70	wsw.	32.0	14.3			9		w.	0.02	0.5	d. clouds	
Trichinopoly	29.51	749.6	29.79	756.6	91.1	32.8	42	nw.	4.0	1.8			1			0	0	blue sky	
Bellary	28.28	718.4	29.73	755.2	85.3	29.6	52	w.	12.5	5.6			10			0	0	gloomy	
Belgaum	27.28	693.0	29.89	758.3	68.5	20.3	99	wsw.	11.0	4.9			10		w.	0.11	2.8	showery	
Lahore	28.76	730.5	29.48	748.7	91.1	32.8	62	ne.	2.0	0.9			4			0	0	blue sky	
Roorkee	28.61	726.6	29.48	748.7	90.4	32.4	64	w.	1.5	0.7			6			0.10	2.5		
Agra	28.98	736.0	29.52	749.9	92.2	33.4	50	w.	10.0	4.5			2		w.	0	0	d. clouds	
Nagpur	28.59	726.3	29.62	752.3	86.7	30.4	53	n.	6.0	2.7			0		w	0	0	d. clouds	
Jubbulpore	28.28	718.4	29.62	752.4	81.8	27.7	68	nw.	4.5	2.0			5		w.	0	0	d. clouds	
Lucknow	29.16	740.5	29.52	749.8	88.1	31.2	74	calm	0.8	0.4			10			0.60	15.2	overcast	
Allahabad	29.23	742.4	29.54	750.2	87.5	30.8	69	ne.	4.0	1.8			10			0.01	0.3	overcast	
Patna	29.35	745.6	29.54	750.3	78.9	26.1	89	w.	5.8	2.6			10	w.	w.	0.12	3.0	overcast	
Hazaribagh	27.58	700.5	29.56	750.9	79.6	26.4	76	wnw.	11.9	5.3			10	nw.	se.	0.05	1.3	drizzling	
Cuttack	29.51	749.6	29.59	751.6	88.6	31.4	73	w.	3.2	1.4			7			0	0	d. clouds	
Calcutta, Allpore	29.53	750.0	29.55	750.5	87.9	31.1	76	e.	2.0	0.9			8	ne.	w.	0	0	d. clouds	
Dhubri	29.45	748.1	29.57	751.0	79.5	26.4	95	ssw.	6.0	2.7			10			0.10	2.5	raining	
Chittagong	29.53	749.9	29.62	752.2	81.7	27.6	88	se.	5.0	2.2			9			0	0	d. clouds	
Sibsagar	29.23	742.5	29.56	750.8	85.2	29.6	83	ne.	4.0	1.8			8	w.	w.	0	0	d. clouds	
Jeypore	28.16	715.3	29.58	751.2	86.2	30.1	51	wsw.	5.4	2.4			5		w.	0	0	d. clouds	
Zanzibar, Africa	30.02	762.5			81.2	27.3	56	se.	8.0	3.8			1			0	0	blue sky	
ITALIAN.																			
Udine	29.71	754.6	30.10	764.6	84.6	29.2	37	e.	0.7	0.3			2			0	0		Prof. Giovanni Cloelig.
Milan	29.59	751.6	30.09	764.2	84.7	29.3	37	ese.	4.3	1.9			2			0	0		Prof. Schiaparelli.
Padua	29.97	761.2	30.08	763.9	84.2	29.0	38	ese.	4.3	1.9			2	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.19	741.5	30.07	763.7	82.4	28.0	33	e.	6.5	2.9			0			0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Genoa	29.93	760.2	30.11	764.9	80.6	27.0	56	sw.	0.7	0.3			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.21	716.4	30.04	763.0	80.8	27.1	41	ne.			4		0			0	0		Prof. D. C. Bruno
Pesaro	30.04	763.0	30.09	764.2	78.8	26.0	59	e.	14.3	6.4			0			0	0		Prof. Luigi Guidi.
Florence	29.85	758.1	30.09	764.3	84.7	29.3	32	nw.			2		0			0	0		Prof. Costantino Pitter
Leghorn	29.97	761.1	30.05	763.2	82.4	28.0	63	w.	1.3	0.6			2			0	0		Prof. P. Monte.
Rome	29.93	760.1	30.10	764.4	86.4	30.2	44	wsw.	13.0	5.8			1			0	0		Prof. P. Tachini.
Lecce	29.85	758.2	30.09	764.3	78.8	26.0	62	ene.	9.8	4.4			3			0	0		Prof. C. de Giorgi
Cosenza	29.22	742.1	30.07	763.8	82.4	28.0	71	sw.	3.8	1.7			3	w.		0	0		Prof. D. Conti.
Cagliari	29.86	758.4	30.05	763.2	79.9	26.6	74	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.89	759.1	30.13	765.2	79.5	26.4	57	ne.	9.4	4.2			0			0	0		Prof. G. Ciaccciatore.
Syracuse	30.03	762.7	30.07	763.8	81.7	27.6	50	s.	3.8	1.7			2	nne.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.58	751.3	30.08	763.9	83.8	28.8	53	se.	1.3	0.6			3	nw.		0	0		Prof. T. Brioschi.
Stelvio	22.44	569.9			54.9	12.7	59	sw.			2		3			0.228	5.8	misty	Prof. P. F. Denza
Valdobbia	22.45	570.4			54.9	12.7	79	e.			2		10			0.059	1.5	covered	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.97	761.2	30.00	762.0	72.2	22.3	92	w.	0.1	0.0			10 n		w.	0.588	14.9	raining	K. Ogawa.
Hakodate	29.95	760.7	29.99	761.0	70.8	21.6	94	calm	0	0			10			2.450	62.2	overcast	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.87	758.7	30.04	763.0	77.5	25.3	86	se.	1.1	0.4		0	4 s			0.004	0.1	fair	M. Fojima.
Nagasaki, I. M. Obs'y	29.61	752.1	29.80	757.0	80.2	26.8	69	ese.	9.3	4.2		0	0			0.010	0.3	clear	
Nemuro	29.89	759.2	29.95	760.7	69.0	20.6	93	se.	6.0	2.7		10	0			0	0	cloudy	
Niigata	29.96	761.0	29.99	761.7	80.7	27.1	70	se.	8.2	3.7			9 ck		sw.	0.020	0.5	overcast	M. Morita.
Nobiru	30.00	761.9	30.01	762.3	75.6	24.2	94	calm	1.4	0.6			10 s			0	0	covered	H. Midzushina.
Osaka	29.99	761.7	30.00	762.0	79.1	26.2	84	sse.	1.1	0.4		0	4 cs			0	0	fair	
Supporo					67.5	19.7	90	se.	9.6	4.3			10			0	0	covered	
Tokei Obs'y, Yeddo	29.99	761.8	30.07	763.7	77.9	25.5	81	s.	12.6	5.6		10 cs	0	sw.		0	0	cloudy	The Staff.
Wakayama	29.97	761.2	30.02	762.5	81.2	27.3	65	s.	12.1	5.4		0	7			0.015	0.4	fair	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.94	760.5	30.13	765.3	71.1	21.7	71	ese.	11.5	5.1		0	8 k;n		ese.	0.02	0.5	cloudy	Oliver & Fig n.
MEXICAN.																			
Guanajuato	23.69	601.7	29.91	759.7	57.0	13.9	98	calm	0	0		0	4 kn		ne.	0.185	4.7	fair	Prof. Vicente Fernandez.
Leon, I	24.38	619.2	30.07	763.8	57.2	14.0	97	n.			1	7 c	1 k	s.	s.	0.709	18.0	cloudy	Prof. M. Leal.
Mazatlan	29.68	754.0	29.94	760.5	79.0	26.1	78	e.	0.9	0.4			10 n		sw.	inap.	inap.	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	587.1	30.11	764.8	56.8	13.8	90	calm			0		10 kn			0.158	4.0	covered	The Staff.
Morelia	24.20	614.6	30.22	767.6	58.1	14.5	65	se.			1	1	1	sw.	sw.	0.319	8.1	clear	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.94	608.1	29.91	759.7	60.4	15.8	94	calm			0		10 n		se.	0.150	3.9	covered	M. Y. de Leon, M. E
Puebla, Catholic Institute	23.43	595.0	30.10	764.5	57.2	14.0	95	calm			0	0	8		se.	0	0	cloudy	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D.
Zacatecas	22.63	574.9	30.23	767.9	54.8	12.8	80	ne.	4.8	2.1		0	8 k		se.	0	0	cloudy	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	29.91	759.8	29.91	759.8	69.8	21.0		wsw.			3					0.004	0.1		
Groningen	29.85	758.1	29.90	759.5	80.4	26.9		s.			2					0.311	7.9		
Helder	29.86	758.4	29.80	758.4	77.2	25.1		sse.			2					0.169	4.3		
Hellevoetsluis	29.89	759.3	29.89	759.3	77.2	25.1	65	wsw.			2					0.020	0.5		
Utrecht	29.85	758.3	29.90	759.5	81.1	27.3	64	sse.			2		5			0.083	2.1	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.85	758.2	29.91	759.8	70.9	21.6	62	ssw.	18	8			0			0	0		
Brono	29.89	759.2	29.93	760.2	64.8	18.2	67	sw.	18	8			3			0.661	16.8	foggy	
Christiania	29.93	760.3	30.08	763.9	74.7	23.7	56	ssw.	13	6			1			0	0		
Gjæsvær	29.71	754.5	29.73	755.1	50.9	10.5		calm			0		8						
Lodingen	29.73	755.1	29.78	756.3	55.4	13.0	94	sw.			7		10			0.374	9.5	rain & fog	
PORTUGUESE.																			
Angra, Azores					73.2	22.9	62	n.	9.8	4.4			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.04	737.6	30.00	762.0	78.1	25.6	38	w.	6.3	2.8			5			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.09	764.2	30.17	766.4	73.9	23.3	64	se.	3.8	1.7			7			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.72	754.9	30.07	763.8	70.0	21.1	63	sw.	18.6	8.3			3			0	0		The Staff.
Ponta Delgada, Azores	30.14	765.6	30.21	767.4	75.2	24.0	70	nne.	6.9	3.1			4			0	0		
Saint Paul de Lotando	29.86	758.4	30.06	763.6	70.2	21.2	83	wnw.			1		1	s.		0	0		
Serra da Estrella	25.33	643.4	30.01	762.3	54.0	12.2	74	nw.	13.0	5.8			9			0	0		
RUSSIAN.																			
Akmolinski	28.58	726.0	29.60	751.8	76.6	24.8	31	nnw.	11	5		4 ck	0			0	0		Major K. Lasarew.
Archangel	29.86	758.4	29.88	758.9	62.8	17.1	53	nw.	9	4		0	2 ks			0	0		Capt. Sseliwerstow.
Astrakhan	30.06	763.6	29.98	761.5	84.6	29.2	40	ne.	4	2		0	2 k			0	0		Capt. Wisganow.
Barnaul	29.21	742.0	29.69	754.2	65.8	18.8	62	nw.	9	4			0			0	0		Meteorological Obs'y.
Dorpat	29.97	761.1	30.20	767.0	75.9	24.4	53	wsw.	7	3		0	0			0	0		Observatory.
Ekaterinburg	28.74	729.9	29.66	753.4	68.5	20.3	58	wnw.	18	8			10			0.193	4.9	light rain	Meteorological Obs'y.
Irkutsk																			
Kasan	29.55	750.6	29.81	757.1	73.9	23.3	55	wnw.	7	3			10			0	0		Observatory.
Kertch	29.98	761.6	30.00	762.1	79.0	26.1	58	nne.	13	6		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.44	747.8	30.04	763.0	81.7	27.6	41	nnw.	9	4		ck	3 ks						Observatory.
Lugan	29.84	757.8	30.03	762.7	86.5	30.3	38	wnw.	4	2			4			0	0		Meteorological Obs'y.
Moscow	29.56	750.7	30.00	762.0	77.7	25.4	45	wnw.	7.8	3.5		0	2 k						Meteorological Obs'y.
Nikolaiev	30.04	763.0	30.11	764.8	87.4	30.8	48	calm	0	0		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.58	751.3	29.72	754.9	77.2	25.1	90	calm	0	0		0	8 n			0	0		Physical Observatory.
St. Petersburg	30.11	764.9	30.13	765.3	72.0	22.2	58	nw.	11	5		0	0			0	0		Central Physical Obs'y.
Semipalatinsk	29.08	738.7	29.71	754.5	73.8	23.2	32	n.	9	4			0			0	0		Major Lasarew
Tashkend, Laboratory	28.17	715.4	29.61	752.2	89.6	32.0	43	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.58	725.9	29.91	759.6	93.0	33.9	24	sw.	11	5		0	0			0	0		Physical Observatory.
Vladivostock	29.74	755.4	29.81	757.1	69.1	20.6	99	se.	7	3			10 n						
Warsaw	29.76	756.0	30.17	766.3	75.9	24.4	55	n.	2	1		0	3 k						Astronomical Obs'y.
Wilna	29.80	756.8	30.20	767.0	76.6	24.8	50	nw.	2	1			0			0	0		Berg, Assistant.
Yeniseisk	29.54	750.2	29.82	757.3	58.5	14.7	82	w.	4	2			0			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt.			29.68	753.9	60	15.6	94	s.			3		10			0.1	3.	drizzling	J. Youngclause.
North Unst			29.71	754.6				s.			6		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.88	758.9	29.98	761.4	74.7	23.7	71	e.	2.9	1.3			10			0.181	4.6	covered	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.89	759.2	29.95	760.7	79.2	26.2	59	nw.	2.5	1.1		3	2	sw.		0.012	0.3	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.03	686.6	29.84	758.0	75.2	24.0	47	sw.	6.5	2.9		0	4			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.78	705.7	29.90	759.5	81.1	27.3	50	sw.	18.3	8.2		0	3			0	0		The Staff.
Murcia, Met. Obs'y	29.82	757.5	29.95	760.8	86.7	30.4	77	se.	3.8	1.7		3	4	wnw.		0.004	0.1	misty	Olayo Diaz, Director
Oviedo	29.10	739.2	29.99	761.0	68.0	20.0	66	n.	2.4	1.1		0	4 k			0	0		Prof. G. L. Frades.
Santiago, Met. Obs'y	29.04	737.7	29.92	759.9	66.4	19.1	78	sw.	14.3	6.4			9			0.472	12.0	almost cov.	G. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.00	762.1	30.07	763.7	79.8	26.6	82	se.	0	0		2 c;ck	4k;kn	e;ne.	ne.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.92	760.0	29.98	761.5	80.7	27.1	88	sw.	8.8	3.9		0	1 s			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.3	30.07	763.7	77.2	25.1	50	w.	8.0	3.6		0	2		wnw.	0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	29.98	761.4	30.07	763.7	81.0	27.2	91	s.	1.1	0.5		2 cs	4 kn	e.	e.	0	0	cloudy	Manuel Maese.
Tuguegarao, Philippine Id's	29.81	757.2	29.94	760.5	77.1	25.1	90	nnw.	0.9	0.4		0	7 ks		sw.	0.29	7.4	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	29.82	757.5	29.86	758.5	68.7	20.4	61	sw.			4		2			0	0		
Umea	29.92	760.0	29.97	761.3	73.4	23.0	52	sw.			4		0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Hernosand	29.91	759.7	29.96	761.0	79.5	26.4	36	ssw.			2		0			0	0		
Stockholm	30.00	762.0	30.18	766.5	79.5	26.4	31	sw.			2		0			0	0		
Wisby	30.07	763.8	30.13	765.3	72.0	22.2	62	w.			2		0			0	0		
Sub-series.																			
Upsala	30.02	762.5	30.11	764.7	80.8	27.1	33	sw.	14.1	6.3			1	wsw.		0	0		S. G. Fineman.
Swiss.																			
Geneva	28.63	727.3	29.99	761.7	79.9	26.6	46	ssw.			2		5			0	0	cloudy	The Observatory
Turkish.																			
Constantinople			30.03	762.7	77.5	25.3	73	ene.	17	7.5			1		ne.	0.091	2.3		The Observatory.
Valona			30.21	767.3	79.2	26.2		n.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.90	759.5	81.5	27.5	57	wnw.			1		10 s		sw.	0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.88	758.9	29.96	761.0	72	22.2	62	nw.	7	3.1		0	1 k			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.39	746.5	30.03	762.7	51	10.6	86	w.	6	2.7		3 k	1 s	sw.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.05	636.3	29.77	756.1	64	17.8	81	e.	4	1.8		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.02	686.3	29.77	756.1	59	15.0	56	sw.	16	7.2		0	2 s		sw.	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.93	734.8	30.08	764.0	68.5	20.3	93	ne.	4	1.8		9 c	0			0.83	21.1	cloudy	H. Hall.
Atlantic City, New Jersey	30.00	762.0	30.01	762.2	73	22.8	71	nw.	6	2.7		0	0			0.23	5.8	clear	Jas. M. Watson.
Augusta, Georgia	29.91	759.7	30.10	764.5	76	24.4	85	calm	0	0		1 cs	0			0	0	clear	John Healy.
Baltimore, Maryland	30.02	762.5	30.07	763.8	70	21.1	66	w.	4	1.8		0	0			inap.	inap.	clear	Robert Seyboth.
Barnegat, New Jersey	29.99	761.7	30.01	762.2	73.0	22.8	76	w.	11	4.9		0	0			0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.16	715.3	29.70	754.4	64	17.8	84	calm	0	0		5 ck	0			inap.	inap.	fair	A. Pritchard.
Benton, Fort, Montana	27.06	687.3	29.85	758.2	62	16.7	48	sw.	7	3.1		0	0			0	0	clear	S. Wheatoa.
Behring Island, Behring Sea	29.82	757.4	29.84	757.9	52.4	11.3		sw.	10	4.5			10 s			0.08	2.0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	27.91	708.9	29.66	753.4	60	15.6	87	nw.	2	0.9		1 c	hz.	sw.		0.12	3.0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.92	760.0	29.94	760.5	71	21.7	90	w.	8	3.6		0	fg.			0.05	1.3	clear	J. T. Elker.
Boise City, Idaho	27.08	687.8	29.82	757.4	57	13.9	60	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.74	755.4	29.89	759.2	69.0	20.6	78	w.	8	3.6		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.93	760.2	29.97	761.2	78.7	25.9	91	s.	5	2.2			10 n		s.	0.40	10.2	thund'r st'm	M. McCarty.
Buffalo, New York	29.32	744.7	30.05	763.3	59	15.0	75	n.	5	2.2		0	9 s		sw.	0.25	6.3	cloudy	Clarence Weaver.
Buford, Fort, Dakota	27.76	705.1	29.70	754.4	60	15.6	72	w.	1	0.4		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.69	754.1	29.98	761.5	57.5	14.2	68	nw.	9	4.0		3 ck	4 ks	n.	nw.	0.12	3.0	fair	G. C. Schaeffer.
Cairo, Illinois	29.70	754.4	30.09	764.3	69.7	20.9	72	w.	3	1.3		0	0			0	0	clear	W. H. Ray.
Campo, California	27.37	695.2	29.87	758.7	55.8	13.2	74	w.	2	0.9			10 s			0	0	cloudy	W. H. Clendenon
Cape Henry, Virginia	30.02	762.5	30.04	763.0	74	23.3	97	w.	7	3.1		5 c	0	w.		1.65	41.9	fair	A. K. Alderson.
Cape May, New Jersey	30.00	762.0	30.04	763.0	73.0	22.8	76	nw.	8	3.6		2 cs	0	w.		0.14	3.6	clear	W. E. Smith.
Cape Mendocino	29.31	744.5			49	9.4	100	n.	14	6.3			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	30.06	763.5	30.08	764.0	79	26.1	82	n.	3	1.3		5 c	0			0	0	fair	F. W. Mixer.
Champaign, Illinois	29.23	742.4	30.02	762.5	60.5	15.8	77	s.	7	3.1		0	0			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.00	762.0	30.05	763.3	81	27.2	74	w.	3	1.3		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.23	742.4	30.06	763.5	73.0	22.8	81	n.	3	1.3		5 cs	0	w.		0	0	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.31	744.5	30.12	765.0	68.0	20.0	90	ne.	2	0.9		1 cs	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.03	610.4	29.73	755.1	50.2	10.1	34	nw.	6	2.7		0	0			inap.	inap.	clear	E. McGovern.
Chicago, Illinois	29.30	744.2	29.99	761.7	65.7	18.7	76	sw.	8	3.6		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.02	762.5	30.04	763.0	74	23.3	84	n.	10	4.5		3 ck	0			0.61	15.5	clear	O. F. Dickens.
Cincinnati, Ohio	29.48	748.8	30.12	765.0	62.3	16.8	86	se.	1	0.4		0	hz			0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.34	745.2	30.06	763.5	66.9	19.4	74	sw.	5	2.2			10 k		w.	0.02	0.5	cloudy	J. B. Newlin.
Coleman City, Texas	28.22	716.8	29.96	761.0	66	18.9	90	s.	2	0.9		3 cs	0			0	0	clear	L. Dorman.
Columbus, Ohio	29.25	742.9	30.08	764.0	62	16.7	84	sw.	2	0.9		0	0			0	0	clear	D. Cuthbertson.
Concho, Texas	28.08	713.2	29.94	760.5	66	18.9	90	calm	0	0		3 c	3 s		s.	0	0	fair	W. W. McConihe.
Custer, Fort, Montana	26.76	679.7	29.82	757.4	59	15.0	56	nw.	4	1.8		0	2 s		calm	0	0	clear	W. B. Lamar.
Davenport, Iowa	29.34	745.2	29.96	761.0	67	19.4	73	sw.	4	1.8		0	0			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.15	638.8	29.80	756.9	67	19.4	68	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.17	715.5	29.88	758.9	54.7	12.6	71	se.	5	2.2		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.31	642.9	29.74	755.4	55	12.8	67	e.	2	0.9		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					65	18.3	64	se.	8	3.6		0	7 s		s.	0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	30.04	763.0	30.06	763.5	70	21.1	84	nw.	7	3.1		0	2 k		nw.	0.07	1.8	clear	T. S. Townsend.
Denison, Texas	29.21	741.9	29.99	761.7	68.0	20.0	84	s.	6	2.7		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.68	626.9	29.70	754.4	63.5	17.5	57	se.	3	1.3		4 cs	0			0.03	0.8	fair	F. M. Neal.
Des Moines, Iowa	29.00	736.6	29.88	758.9	68	20.0	73	sw.	6	2.7		4 cs	3 s	w.		0	0	fair	F. W. Conrad.
Detroit, Michigan	29.33	745.0	30.02	762.5	66.2	19.0	90	calm	0	0			10 s		calm	0.21	5.3	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.26	692.4	29.74	755.4	71	21.7	47	s.	15	6.7		6 c	2 s			0	0	cloudy	W. M. Mattingly.
Dubuque, Iowa	29.25	742.9	29.94	760.5	66	18.9	78	calm	0	0		1 cs	8 ks		w.	0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.11	739.4	29.83	757.7	54	12.2	86	ne.	20	8.9			10 s		ne.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.13	739.9	29.92	760.0	73.0	22.8	90	calm	0	0			1c s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.24	641.1	29.79	756.7	48	8.9	74	calm	0	0		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.71	754.6	29.78	756.4	62.0	16.7	87	sw.	3	1.3			10s; fg		sw.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.16	689.9	29.80	756.9	64	17.8	78	se.	8	3.6		5 c	0	se.		0	0	fair	W. J. Cundall.
El Paso, Texas	26.18	665.0	29.78	756.4	69	20.6	53	ne.	2	0.9		0	6 ks		e.	0	0	fair	J. F. Marshall.
Erie, Pennsylvania	29.32	744.7	30.03	762.7	65	18.3	84	calm	0	0			10 s		ne.	0.12	3.0	cloudy	Peter Wood.
Escanaba, Michigan	29.36	745.7	30.00	762.0	56	10.0	86	calm	0	0			10 s		sw.	0	0	cloudy	George Heathcote.
Fredericksburg, Texas	28.30	718.8	30.01	762.2	70	21.1	97	s.	4	1.8			10 ks		s.	0	0	cloudy	Frank Halwegler.
Galveston, Texas	30.01	762.2	30.06	763.5	78	25.6	82	sw.	14	6.3			10 ks		se.	0.20	5.1	threatening	E. O'C. MacInerney.
Grand Haven, Michigan	29.34	745.2	30.00	762.0	61.0	16.1	86	ne.	3	1.3		7 ck	0	w.		0	0	fair	W. A. Reid.
Grant, Fort, Arizona	25.22	640.6	29.79	756.7	69.4	20.8	76	nw.	4	1.8		1 c	8 s			0	0	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.01	762.2	30.03	762.7	79	26.1	91	w.	4	1.8		4 c	3 k	ne.	w.	0.14	3.6	fair	R. M. Crawford.
Helena, Montana	25.78	654.8	29.87	758.7	57	13.9	60	w.	2	0.9		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.00	736.6	30.00	762.0	72.0	22.2	82	s.	8	3.6		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.27	718.0	29.61	752.1	67.2	19.6	84	e.	6	2.7		2 cs	5 ks	sw.		0.04	1.0	fair	S. W. Glenn.
Indianapolis, Indiana	29.31	744.5	30.08	764.0	66	18.9	73	sw.	2	0.9		0	hz.			0	0	clear	O. Schutze
Indianola, Texas	30.00	762.0	30.03	762.7	76.5	24.7	82	sw.	16	7.2			10 n		sw.	0.31	7.9	light rain	I. A. Reed.
Jacksboro, Texas	28.83	732.3	29.95	760.7	68	20.0	78	sw.	2	0.9		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.04	763.0	30.08	764.0	78	25.6	88	calm	0	0		2 cs	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.33	694.2	29.76	755.9	57	13.9	64	sw.	10	4.5		0	sk.			0	0	clear	A. Schneider.
Keokuk, Iowa	29.33	745.0	29.96	761.0	69.0	20.6	73	s.	1	0.4		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	83.0	28.3	86	nw.	4	1.8		0	0			0.68	17.3	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.04	763.0	30.06	763.5	77	25.0	82	nw.	7	3.1		2 c	0			0.58	14.7	clear	E. A. Beals.
Knoxville, Tennessee	29.12	739.6	30.13	765.3	64.5	18.1	95	ne.	2	0.9		3 k	3 s	sw.		0.01	0.3	fair	J. A. Cody.
La Crosse, Wisconsin	29.10	739.1	29.85	758.2	69	20.6	76	s.	10	4.5			10 s			0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.06	738.1	29.92	760.0	67	19.4	73	s.	8	3.6		2 cs	0	sw.		0	0	clear	A. W. Browne.
Lewiston, Idaho	29.08	738.6	29.89	759.2	63.0	17.2	39	ne.	2	0.9		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.73	755.1	30.04	763.0	67	19.4	93	calm	0	0		0	fg.			0	0	clear	W. U. Simons.
Los Angeles, California	29.56	750.8	29.95	760.7	62.1	16.7	87	w.	3	1.3		0	fg			0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.53	750.0	30.08	764.0	65	18.3	78	sw.	1	0.4		0	sk			0	0	clear	H. O. Smyth.
Lynchburg, Virginia	29.39	746.5	30.06	763.5	70	21.1	76	calm	0	0		0	0			inap.	inap.	clear	Lewis Duane.
Macon, Fort, North Carolina	30.05	763.3	30.06	763.5	80	26.7	88	calm	0	0		0	2 s			0	0	clear	F. P. Chaffee.
Madison, Wisconsin	28.97	735.8	29.95	760.7	62	16.7	87	se.	6	2.7		7 cs	0	w.		0	0	fair	O. A. Shaw.
Maginnis, Fort, Montana	25.49	647.4			56	13.3	53	w.	15	6.7		4 k	0	w.		0	0	fair	H. W. Dodge.
McKavett, Fort, Texas	27.82	706.6	30.03	762.7	68	20.0	81	s.	3	1.3		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.30	744.2	30.01	762.2	53	11.7	61	s.	5	2.2		1 c	0	sw.		0	0	clear	J. Gilligan.
Memphis, Tennessee	29.73	755.6	30.06	763.5	71	21.7	57	calm	0	0		0	2 s		sw.	0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.25	742.9	29.98	761.5	63	17.2	78	e.	7	3.1		5 ck	0			0.04	1.0	fair	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.72	678.7	29.94	760.5	51	10.6	80	s.	2	0.9		0	0			0	0	clear	J. H. Jones.
Mobile, Alabama	30.07	763.8	30.11	764.8	73	22.8	90	w.	3	1.3		2 cs	0	nw.		0.49	12.4	clear	C. A. Read.
Montgomery, Alabama	29.86	758.4	30.09	764.3	74	23.3	94	calm	0	0			fg.			inap.	inap.	dense fog	J. B. McLaughlin.
Moorhead, Minnesota	28.68	728.5	29.65	753.1	63	17.2	84	se.	8	3.6			10 s			0	0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.10	739.1	30.10	764.5	64.0	17.8	90	calm	0	0		0	0			0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.66	601.0	29.74	755.4	47.5	8.6	96	nw.	64	28.6			fg.		nw.	0.07	1.8	dense fog	J. G. Livsley.
Nashville, Tennessee	29.51	749.5	30.07	763.8	67.5	19.7	87	ne.	2	0.9		1 ck	2 ks	w.	w.	0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.84	757.9	29.95	760.7	67.5	19.7	83	sw.	4	1.8		0	hz.			0	0	clear	J. H. Sherman.
New London, Connecticut	29.92	760.0	29.97	761.2	71	21.7	76	w.	6	2.7		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.09	764.3	77.0	25.0	85	se.	1	0.4		5 c	0			0.10	2.5	fair	L. Dunne.
Newport, Rhode Island	30.00	762.0	30.05	763.3	70.6	21.4	88	sw.	6	2.7		0	hz.			0	0	clear	W. McGillivray.
New York, New York	29.83	757.7	30.00	762.0	67	19.4	84	sw.	8	3.6		0	0			0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.02	762.5	30.05	763.3	77	25.0	90	nw.	5	2.2		3 c	0			2.13	54.1	clear	Wm. Davis.
North Platte, Nebraska	26.84	681.7	29.64	752.8	67.6	19.8	60	nw.	4	1.8		0	5 s			0	0	fair	E. F. Brady.
Olympia, Washington T'y	29.94	760.5	29.98	761.5	50.0	10.0	90	calm	0	0		0	0			0	0	clear	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.80	756.9	29.82	757.4	31.5	— 0.3	95	nw.	18	8.0			10 s		nw.	0.03	0.8	cloudy	P. H. Ray.
Omaha, Nebraska	28.66	728.0	29.80	756.9	71.0	21.7	76	s.	12	5.4		3 k	2 s	w.		0	0	fair	A. Pollak.
Oswego, New York	29.71	754.6	30.03	762.7	60.0	15.6	62	n.	9	4.0		5 k	0	nw.		0.04	1.0	fair	S. W. Beall.
Palestine, Texas	29.53	750.0	30.07	763.8	72.0	22.2	90	s.	8	3.6		4 ck	0	w.		0	0	fair	L. M. Pindell.
Pensacola, Florida	30.08	764.0	30.10	764.5	76.1	24.5	94	ne.	4	1.8		0	0			0.02	0.5	clear	M. McGauran.
Philadelphia, Pa.	29.93	760.2	30.03	762.7	70	21.1	70	sw.	2	0.9		0	0			inap.	inap.	clear	T. F. Townsend.
Pike's Peak, Colorado	17.98	456.7	29.77	756.1	37	2.8	64	w.	1	0.4		0	5 s			0.06	1.5	fair	L. M. Dey.
Ploche, Nevada	24.06	611.1	29.76	755.9	62.2	16.8	72	s.	2	0.9		2 k	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.28	743.7	30.07	763.8	65.8	18.8	68	w.	4	1.8		0	5 s		w.	0	0	fair	J. B. Turton.
Poplar River, Montana	27.61	701.3						se.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.09	764.3	30.10	764.5	77.0	25.0	90	sw.	4	1.8		0	0			0.17	4.3	clear	M. Hermann.
Port Huron, Michigan	29.36	745.7	30.02	762.5	60.0	15.6	83	e.	1	0.4			10 s			0.12	3.0	cloudy	W. O. Bailey.
Portland, Maine	29.78	756.4	29.83	757.7	68.0	20.0	84	sw.	9	4.0			10 s		nw.	0	0	cloudy	W. W. Eichelberger.
Portland, Oregon	29.89	759.2	29.95	761.0	55.0	12.8	93	calm	0	0		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					80	26.7	88	w.	4	1.8		hz.	0			0	0	clear	F. S. Coburn.
Prescott, Arizona	24.83	630.7	29.81	757.2	61	16.1	78	s.	3	1.3		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.88	758.9	29.91	759.7	70	21.1	90	sw.	10	4.5		0	2 s			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.03	762.7	30.04	763.0	80	26.7	79	n.	7	3.1		0	2 k		calm	0	0	clear	W. J. Evans.
Red Bluff, California	29.43	747.5	29.79	756.7	67.3	19.6	48	s.	2	0.9		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.78	756.4	30.02	762.5	74	23.3	97	se.	6	2.7		5 cs	0			0.05	1.3	fair	H. S. Miles.
Rochester, New York	29.38	746.2	30.03	762.7	60	15.6	75	n.	1	0.4		0	7 k		n.	1.24	31.5	fair	E. W. McGann.
Roseburg, Oregon	29.42	747.3	29.96	761.0	54.5	12.5	80	calm	0	0		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.72	754.9	29.79	756.7	61.4	16.3	78	se.	12	5.4		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.46	748.3	30.04	763.0	66.0	18.9	93	s.	5	2.2		0	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	28.91	734.3	29.75	755.6	69.0	20.6	78	se.	14	6.3		9 k	0	sw.		0	0	cloudy	P. F. Lyons
St. Vincent, Minnesota	28.77	730.7	29.62	752.3	61	16.1	93	e.	9	4.0			10 s			0.03	0.8	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.56	650.2	29.79	756.7	62	16.7	39	se.	3	1.3		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.31	744.5	30.00	762.0	73.0	22.8	97	e.	2	0.9			10 s		se.	0.10	2.5	cloudy	T. J. Kenan.
San Diego, California	29.82	757.4	29.89	759.2	67.6	19.8	88	nw.	3	1.3			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.36	745.7	30.02	762.5	67.4	19.7	78	w.	10	4.5			10 s			0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.97	761.2	30.00	762.0	71.0	21.7	82	w.	16	7.2		0	0			0	0	clear	B. A. Blundon.
San Francisco, California	29.81	757.2	29.88	758.9	56.5	13.6	93	sw.	9	4.0			fg.		sw.	0	0	dense fog	N. Gerom.
Santa Fé, New Mexico	23.23	590.0	29.73	754.9	60	15.6	67	ne.	5	2.2		6 cs	4 s			0.59	15.0	cloudy	H. U. Jones.
Savannah, Georgia	29.98	761.5	30.06	763.5	77	25.0	85	n.	5	2.2		4 c	0			0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.32	668.5	29.84	757.9	55	12.8	64	w.	7	3.1		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.84	757.9	30.07	763.8	71	21.7	94	nw.	3	1.3		3 cs	4 k		s.	0	0	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.73	729.7	29.91	759.7	64.5	18.1	85	s.	2	0.9		0	0			0	0	clear	T. Cleary.
Silver City, New Mexico	24.27	616.4	29.73	755.1	62	16.7	49	w.	7	3.1		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.84	757.9	29.90	759.4	52	11.1	90	sw.	8	3.6			10 n		sw.	0.73	18.5	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.55	750.6	30.01	762.2	66.0	18.9	84	e.	4	1.8		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.02	762.5	30.06	763.5	79	26.1	77	calm	0	0		1 c	hz.			0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.91	708.9	29.91	759.7	55	12.8	69	calm	0	0		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.36	745.7	30.02	762.5	64	17.8	81	s.	5	2.2		0	0			0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.81	757.2	29.91	760.5	73.0	22.8	76	s.	4	1.8		0	0			0	0	clear	T. S. Outram.
Springfield, Mo.	28.60	726.4	29.99	761.7	61	16.1	90	s.	6	2.7		7 k	0	sw.		0	0	fair	J. B. Marbury.
Starkville, Miss.	29.51	749.5	29.98	761.5	80	26.7	85	s.	6	2.7		0	3 k		s.	0	0	clear	M. J. Wright, jr.
Stevenson, Fort, Dakota	27.89	708.4	29.67	753.6	53	11.7	86	w.	6	2.7		0	sk.			inap.	inap.	clear	W. Burrows.
Stockton, Fort, Texas	26.94	684.3	29.88	758.9	64.0	17.8	93	s.	8	3.6		0	0			0	0	clear	J. O'Dowd.
Thomas Camp	27.15	689.6	29.77	756.1	78	25.6	54	w.			1	2 cs	4 k	s.	s.	0	0	fair	
Thatcher's Island, Mass.	29.86	758.4	29.91	759.7	60.0	15.6	78	n.	8	3.6		0	fg.			0	0	clear	G. Liebmann.
Toledo, Ohio	29.34	745.2	30.01	762.2	70	21.1	70	s.	8	3.6		4 cs;hz	0	w.		0	0	fair	A. Buell.
Tucson, Arizona	27.50	698.5	29.84	757.9	75	23.9	82	calm	0	0		0	8 ks			0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.52	749.8	29.88	758.9	56.5	13.6	48	se.	7	3.1		0	0			0	0	clear	J. Daly.
Uvalde, Texas	29.02	737.1	29.96	761.0	71	21.7	100	calm	0	0			10 s		s.	0.13	3.3	cloudy	E. C. Imlay.
Verde, Fort, Arizona					73.2	22.9	64	se.			1	2 k	2 s	n.	se.	0	0	fair	D. Brooks.
Vicksburg, Mississippi	29.84	757.9	30.08	764.0	72	22.2	90	s.	3	1.3		5 ck	0			0.03	0.8	fair	James Kenealy.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.40	619.7	29.74	755.4	55.1	12.8	77	ne.	3	1.3		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	29.96	761.0	30.07	763.8	71.1	21.7	63	nw.	4	1.8		0	hz.			inap.	inap.	clear	F. M. M. Beall.
West Las Animas, Colorado	25.87	657.1	29.62	752.3	65.4	18.6	77	sw.	5	2.2		3 cs	6 s	sw.		inap.	inap.	cloudy	F. H. Brandenburg
Williamsport, Pa.	29.43	747.5	30.01	762.2	66	18.9	68	nw.	2	0.9		hz.	4 ks		nw.	0	0	fair	B. F. Hough.
Wilmington, N. Carolina	30.01	762.2	30.06	763.5	80	26.7	88	calm	0	0		5 c	0			0.03	0.8	fair	Samuel A. Haney.
Winnemucca, Nevada	25.58	649.7	29.81	757.2	56	13.3	14	ne.	7	3.1		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.11	721.6	29.68	753.9	73	22.8	66	s.	2	0.9		5 ck	0			0.03	0.8	fair	J. H. Atfield.
Yuma, Arizona	29.62	752.3	29.76	755.9	85.0	29.4	73	se.	5	2.2		3 ck	0 s	se.	se.	0	0	cloudy	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6			52.5	11.4	76	calm	0	0			9ks;s			0.01	0.3	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I.	30.09	764.3	30.10	764.5	82	27.8	91	e.				5 k	1 ks		e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.01	762.2	76	24.4	95	calm	0	0		0	8 ks		s.	0	0	cloudy	J. I. Plume.
Havana, Cuba†	29.99	761.7	30.05	763.3	81	27.2	82	calm	0	0		4 ks	6 ks	n.		0	0	cloudy	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	80.2	26.8	74	calm	0	0		2 c	0	e		0.16	4.1	fair	Robert Johnston.
Magua, San Domingo, W. I.					72	22.2		calm			0	0	0			0	0		S. M. Pike.
Navassa	29.90	759.4	29.98	761.5	81.5	27.5	82	e.	6	2.7		2 ck	5 ks	se.	e.	0	0	cloudy	F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	80	26.7	87	s.			2	5 ck	5 k	e.		0.420	10.7	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.44	747.8	30.00	762.0	78	25.6	89	calm			0		10 ks		calm	0.43	10.9	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							99	ne.			2	5 ck	10 ks	se.	ne.	0.12	3.0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alas*†	29.65	753.1	29.71	754.6	49	9.4	93	n.			2	0	2 k			0	0	clear	W. J. Fisher.
St. Thomas, W. I.	29.99	761.7	30.12	765.0	83	28.3	72	e.					3 k		e.	0.07	1.8	clear	Aug. Wallon.
York Factory, B. A.	29.89	759.2	29.96	761.0	45.0	7.2	92	n.	11	4.9		3 k	2 s	ne.	n.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, N. 23° 44′ W. 35° 00′	30.12	765.0	78	25.6	77	ne.			3-4		5							misty.
H. M. S. Alexandra, Alexandria, Egypt	29.95	760.7	80	26.7	74	nw.			3		2	wnw.				2	wnw.	d. clouds.
H. M. S. Amethyst, S. 23° 57′ W. 44° 53′	30.14	765.5	69.5	20.8	92	n.			1		2	ne.				2	e.	d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	30.02	762.5	77	25.0		nne.			4		8	n.						d. clouds.
H. M. S. Arab, Jask, Persia	29.49	749.0	90.5	32.5	86	sw.			3		3							misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.12	765.0	56.5	13.6		nw.			1-3		4							showery.
H. M. S. Cleopatra, N. 44° 17′. E. 136° 50′	29.82	757.4	68	20.0	100	s.			1		10							drizzling.
H. M. S. Comus, Esquimalt, Vancouver Island	30.02	762.5	55	12.8	73	calm			0		2							d. clouds.
H. M. S. Diamond, S 10° 15′, E. 161° 42′	29.92	760.0	78	25.6	90	calm			0		0							blue sky.
H. M. S. Dido, N. 17° 55′, W. 77° 00′	30.08	764.0	80	26.7		calm			0		2	e.						d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.04	763.0	78.5	25.8	86	nw.			1		4	nw.						d. clouds.
H. M. S. Emerald, N. 49° 10′, W. 7° 00′	29.75	755.6	64.5	18.1	100	s.			2-3		6	ssw.						d. clouds.
H. M. S. Flying Fish, N. 32° 44′ E. 129° 52′	29.75	755.6	83	28.3	81	se.			1		5							d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.03	762.7	60	15.6	94	sse.			2		10							drizzling.
H. M. S. Garnet, N. 47° 50′, W. 12° 00′	29.82	757.4	68	20.0	84	s.			2		6							d. clouds.
H. M. S. Griffon, N. 47° 33 W. 58° 23′	29.91	759.7	61.5	16.4	88	e.			2		10							misty.
H. M. S. Iron Duke, N 43° 07′ E. 131° 55′	29.91	759.7	69	20.6	100	se.			1		10							d. clouds.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.98	761.5	77.3	25.2	88	e.			1		5					1	e.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.04	763.0	56	13.3		nw.			1									d. clouds.
H. M. S. Magpie, N. 35° 07′, E. 128° 40′	29.82	757.4	81.5	27.5	86	sse.			1		0							blue sky.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.96	761.0	79.5	26.4	76	nw.			3		2							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.88	758.9	64.5	18.1	91	sse.			2		10	wsw.						d. clouds.
H. M. S. Orontes, N. 32° 12′, E. 27° 10′	30.01	762.2	79.5	26.4	91	nw.			2		0					1	wnw.	blue sky.
H. M. S. Pegasus, N. 1° 17′, E. 103° 52′	29.88	758.9	84	28.9	83	ese.			1		4					1	sse.	d. clouds.
H. M. S. Sappho, Honolulu, Sandwich Islands	30.04	763.0	75	23.9	95	calm			0		3							d. clouds.
H. M. S. Swiftsure, S. 45° 48′ W. 76° 50′	30.25	768.3	45	7.2	84	se.			3		2	sse.				2	ssw.	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.01	762.2	51.5	10.8	89	se.			6-7		10							showery.
H. M. S. Tenedos, N. 49° 27′ W. 56° 09′	29.89	759.2	60	15.6	82	calm			0		9							d. clouds.
H. M. S. Triumph, Montevideo, Uruguay	30.06	763.5	51	10.6	100	var.			6-8		10	var.				8	ese.	foggy.
H. M. S. Woodlark, Muscat, Arabia	29.52	749.8	89.5	31.9	80	calm			0		0							blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.11	764.9	78.8	26.0	88	nw.			1		2			10 h'r	10 h'r	1	se.	showery.
Tamega, Macao, China	29.82	757.3	82.4	28.0	81	se.			2		2			4 h'r	4 h'r			blue sky.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	30.06	763.5	76	24.4	91	nw.	2	0.9			2		sw.	0.15	3 8			fair.
Navy Yard, Portsmouth, N. H.	30.09	764.3	65	18.3	78	calm	0	0			10			0	0			cloudy.
Naval Hospital, Yokohama, Japan*	29.98	761.5	78	25.6	84	sw.			2		5		sw.	sll't	sll't			fair.
Adams, Mare Island, Cal.			59	15.0	88	sw.			3		5			0	0	sm'h		fair.
Alaska, S. 5° 00′, W. 115° 00′	29.95	760.7	73	22.8	81	ese.			5		5		se.	0	0	mod.	s.	fair.
Alliance, Portsmouth, N. H.	29.87	758.7	68	20.0	79	w.			1		8			0	0	sm'h		fair.
Ashnelot, Yokohama, Japan*	30.00	762.0	79	26.1	91	s.			3		10		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.21	767.3	68	20.0	100	n.	6	2.7			5		n.	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.99	761.7	70	21.1	75	sw.	3	1.3			0			0	0			clear.
Constellation, N. 38° 43′ W. 72° 40′*	30.05	763.3	76	24.4	91	w.			3		5		w.			sm'h		fair.
Enterprise, Portsmouth, N. H.	29.85	758.2	68	20.0	90	wsw.			2		8		w.					cloudy.
Essex, Coquimbo, Chili	30.01	762.2	57	13.9	75	wnw.			0-1		10		w.			sm'h		overcast.
Franklin, Norfolk, Va.	30.05	763.3	74	23.3	95	nw.	6	2.7			2		nw.	1.85	47.0			fair.
Galena, N. 20° 00′, W. 24° 20′	29.98	761.5	76	24.4	95	ene.			3		10		ene.			mod.	ne.	cloudy.
Independence, Mare Island, Cal.	29.91	759.7	58	14.4	100	sw.			3		10			0	0			cloudy.
Iroquois, N. 23° 08′, W. 110° 32′	29.90	759.4	76	24.4	91	ne.			1		2		nw.	0	0	sm'h		fair.
Kearsarge, Norfolk, Va.	30.05	763.3	76	24.4	95	n.			1		5		n.					fair.
Lackawana, Callao, Peru*	30.02	762.5	60	15.6	88	se.			1		10							misty.
Lancaster, Villafranca, France*	30.05	763.3	84	28.9	83	s.			1		8		calm	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	29.97	761.2	52	11.1	100	ese.			6		10		se	mod.	mod.	r'gh	se.	stormy.
Michigan, Chicago, Illinois	29.95	760.7	65	18.3	78	ssw.			3		0							clear.
Minnesota, off New York, N. Y.	30.04	763.0	70	21.1	80	sw.	3	1.3			0							clear.
Monocacy, N. 37° 27′ E. 126° 33′	29.80	756.9	82	27.8	87	calm			0		8		calm					fair.
New Hampshire, Newport, R. I.	30.00	762.0	71	21.7	90	w.			2		8					sm'h		fair.
Nipsic, Villafranca, France*	30.06	763.5	80	26.7	70	ese.			1		5					sm'h		fair.
Onward, Callao, Peru†	30.14	765.5	60	15.6	100	sse.			2		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.96	761.0	80	26.7	78	sse.			1		8		calm					fair.
Passaic, Washington, D. C.	30.08	764.0	72	22.2	90	w.			2		0							clear.
Pensacola, N. 8° 12′, W. 79° 23′*	29.82	757.4	79	26.1	86	nw.			4		8		nw.	light	light	sm'h		cloudy.
Portsmouth, N. 36° 38′, W. 2° 28′*	29.94	760.5	73	22.8	81	e.			3		5		e.			sm'h		fair.
Powhatan, Norfolk, Va.	30.05	763.3	75	23.9	95	nw.			2		2							clear.
Quinnebaug, Alexandria, Egypt*	29.94	760.5	79	26.1	74	nnw.			3		2		calm			sm'h		fair.
Ranger, Mare Island, Cal.	29.91	759.7	61	16.1	77	sw.			2		10			0	0			overcast.
Richmond, Yokohama, Japan*	30.00	762.0	80	26.7	91	sw.			3		10		sw.	0	0			cloudy.
Saratoga, N. 40° 03′, E. 2° 10′	29.99	761.7	78	25.6	86	n.			4		2		ne.	0	0	sm'h		cloudy.
St. Louis, League Island, Pa.	30.28	769.1	71	21.7	80	sw.			4		0			0	0			clear.
Swatara, Hong Kong, China*	29.64	752.8	83	28.3	83	calm			0		0					sm'h		clear.
Tennessee, Portsmouth, N. H.	29.91	759.7	68	20.0	84	w.	5	2.2			8			0	0			cloudy.
Vandalia, Portsmouth, N. H*	29.82	757.4	69	20.6	90	sw.			1		8		calm					cloudy.
Wabash, Boston, Mass.	29.90	759.4	72	22.2	85	sw.	8	3.6			0							clear.
Wachusetts, Fort Wrangle, Alaska†	30.17	766.3	51	10.6	100	e			1		10					sm'h		rainy.
Wyoming, Port Royal, S. C*	30.02	762.5	76	24.4	82	nnw.	5	2.2			5		w.	0	0			fair.
Yantic, Portsmouth, N. H.	29.87	758.7	68	20.0	84	w.			2		5							fair.
MERCHANT MARINE.																		
ALLAN LINE.																		
S. S. Grecian, N. 35° 56′, W. 5° 57′*	30.03	762.7	73	22.8		nw.			4		0			0	0	sm'h		clear.
S. S. Polynesian, N. 55° 24′ W. 9° 38′*	29.51	749.5	68	20.0		s.			3		10		s.	0	0	sm'h	sw.	cloudy.
S. S. Scandinavian, N. 43° 11′, W. 61° 09′	29.78	756.4	65	18.3		sse.			3		3		sw.	0	0	light	sse.	d. clouds.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N 39° 37′ W. 71° 42′†	30.05	763.3	76	24.4		w.			4		0			3 h'r	3 h'r	sm'h		clear.
S. S. Indiana, Philadelphia, Pa.†	30.25	768.3	68	20.0	94	sw.			3		2		sw.					fine.
S. S. Lord Clive, Deep Water Point, N. J.*†	30.00	762.0				w.			1		0			0	0			fine.
S. S. Lord Gough, N. 50° 48′ W. 29° 54′	29.69	754.1	61	16.1		wsw.			7		10		w.	2 h'r	2 h'r	mod	w.	cloudy.
S. S. Ohio, Philadelphia, Pa.†	29.86	758.4	68	20.0	94	w.			2		1		w.					fair.
AMSTERDAM LINE.																		
S. S. Jason, N. 46° 22′, W. 30° 57′*	30.24	768.1	62.6	17		ne.			3	6 c						3	nw.	gloomy.
ANCHOR LINE.																		
S. S. Assyria, N. 50° 27′, W. 2° 15′†	29.87	758.7	64	17.8		sw.			4		8		sw.	0	0	sm'h		cloudy.
S. S. Bolivia, N. 42° 56′. W. 57° 34′*†	30.02	762.5	69	20.6		wsw.			1		8		wsw.	0	0	sm'h		cloudy.
S. S. Dorian, N. 41° 43′, W. 69° 30′ *	29.81	757.2	67	19.4		var.			1					0	0	sm'h		foggy.
S. S. Ethiopia, N. 52° 26′, W. 26° 44′	29.57	751.1	58	14.4	93	wsw.			6		10		w.	10 h'r	10 h'r	r'gh	sw.	showery.
ATLAS LINE.																		
S. S. Ailsa, N. 10° 57′ W. 78° 50′†	30.02	762.5	80	26.7	86	ene.			5		5		ne.	0	0	long	ne.	fair.
S. S. Alene, off Cartagena, U. S. C.†	29.88	758.9												light	light			clear.
S. S. Alpin, Castillo, C. A.	29.94	760.5				e.			5		7		ne.	0	0		e.	
S. S. Antillas, Ponce, Porto Rico, W. I.†	29.85	758.2	86	30.0		se.			1		2		se.					clear.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 42° 03′, E. 45° 57′	30.38	771.6	51	10.6	86	w.			4		5							blue sky.
S. Baroda, N. 6° 38′, W. 23° 59′	30.04	763.0	78.3	25.7	86	sw.			4		8							d. clouds.
Bk. Caldew, S. 35° 54′, E. 9° 40′	30.02	762.5	54.8	12.7	70	sw.			7		3							blue sky.
S. S. Cipero, N. 40° 30′ W. 32° 23′	30.29	769.4	73.2	22.9	76	nnw.			3		4							d. clouds.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH METEOROLOGICAL.—Continued.																		
Bk. Commewyne, N. 47° 14′, W. 26° 35′	30.01	762.2	64	17.8	78	wsw.			4		10							overcast.
S. S. City of Agra, S. 40° 54′, E. 15° 40′	29.74	755.4	52.5	11.4	83	wsw.			6		10							overcast.
S. S. Gordon Castle, N. 40° 47′ W. 59° 04′	30.03	762.7	78.5	25.8	86	nne.			1–2		8							d. clouds.
S. S. Humboldt, N. 34° 37′, W. 58° 04′	30.06	763.5	50.8	10.4	93	ene.			6		9					r'gh		overcast.
May Hulse, N 40° 06′, W. 38° 55′	30.34	770.6	77	25.0	65	wnw.			1		1							blue sky.
S. S. Minho, Bahia, Brazil	30.23	767.8	76	24.4	93	ssw.			2		3							d. clouds.
S. S. Oamarn, N. 11° 52′, W. 25° 13′	29.99	761.7	79.3	26.3	82	w.			5		9							d. clouds.
S. S. Rosetta, N. 5° 55′, E. 95° 39′	29.83	757.7	83.5	28.6	79	w.			4		0							blue sky.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, Guaymas, Mexico †*	29.95	760.7	83	28.3	74	e.			2		2		e.					clear.
CROMWELL LINE.																		
S. S. Hudson, N. 32° 45′, W. 77° 40′†	30.10	764.5	81	27.2		ne.			1		3		ne.	0	0	mod.	ne.	fair.
CUNARD LINE.																		
S. S. Bothnia, N. 43° 18′, W. 48° 27′	30.14	765.5	80	26.7	91	s.			3		3		s.	0	0		s.	clear
S. S. Gallia, N. 41° 20′, W. 65° 02′	29.98	761.5	74	23.3	95	wsw.			4		5		w.	0	0	sm'h		fine.
S. S. Marathon, N. 37° 16′, E. 10° 20′	30.08	764.0	74	23.3		sse.			3		2			0	0	sm'h	sse.	clear.
DONALDSON LINE.																		
S. S. Colina, N. 50° 06′, W. 29° 21′†	30.00	762.0				wsw.			6		6		w.			hv'y	nnw.	misty.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N. 42° 02′, W. 58° 27′†	29.99	761.7	75.2	24		ssw.			3	5 ck		ssw.				sm'h	ssw.	
S. S. Ville de Marseilles, N. 39° 23′, W. 62° 51′*†	30.00	762.0	75	23.9		wsw.			4		6		w.	1 h'r	1 h'r	mod.	wsw.	cloudy.
GUION LINE.																		
S. S. Arizona, N. 40° 30′, W. 71° 15′	29.95	760.7	73	22.8		w.			3		4		w	2 h'r	2 h'r	sm'h		blue sky.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Cimbria, N. 47° 32′, W. 39° 49′†	30.05	763.3	61	16.1		wnw.			4		8		nw.	9 h'r	9 h'r	long	nw.	raining.
S. S. Gellert, N. 49° 40′, W. 9° 49′	29.68	753.9	64	17.8		w.			0		10		sw.	1 h'r	1 h'r	long	w.	covered.
S. S. Herder, N. 41° 19′, W. 64° 06′*	29.70	754.4	80	26.7		ssw.			4		7		ssw.	0	0	mod.	ssw.	cloudy.
S. S. Silesia, Hamburg, Germany	29.94	760.5	76.2	24.6		se.			4		0			0	0			fair.
S. S. Westphalia, N. 44° 58′, W. 57° 08′	29.94	760.5	68	20.0	90	s.			3		8		s.	0	0	sm'h	s.	cloudy.
S. S. Wieland, N. 49° 48′, W. 7° 15′	29.77	756.1	67	19.4		ssw.			4		3		ssw.	light	light	2	ssw.	clearing.
INMAN LINE.																		
S. S. City of Berlin, N. 51° —′ W. 24° —′	29.84	757.9				wnw.			6		9		w.	2 h'r	2 h'r	sm'h		
LAMPERT AND HOLT'S LINE.																		
S. S. Archimedes, N. 43° 03′ W. 42° 30′†	30.33	770.4				sw.			3		3		sw.	0	0	sm'h		clear.
S. S. Hevelius, Montevideo, Uraguay*†	30.15	765.8	54	12.2		ese.			8		10		ne.	6 h'r	6 h'r			raining.
LEYLAND LINE.																		
S. S. Bulgarian, N. 50° 26′, W. 27° 12′*	29.86	756.9				wsw.			3		10		w.	8 h'r	8 h'r	sl't	w.	cloudy.
MALLORY LINE.																		
S. S. City of San Antonio, Matanzas, Cuba, W. I *†	30.18	766.6				calm			0		0?			0	0			fair.?
S. S. Colorado, N 29° 34′. W 79° 57′†	30.07	763.8	83	28 3		ne.			3		3		ne.	h'vy	h'vy	mod.	ne.	fair.
S. S. San Marcos, N. 37° 53′, W. 74° 38′	30.07	763.8				sw.								0	0			light haze.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 40° 52′, E. 2° 36′ *†	30.11	764.8	80	26.7	78	ne.			2		10		ese.	0	0	sm'h	ne.	covered.
MERCHANTS EXPRESS LINE.																		
S. S. Freja, N. 47° 39′, W. 31° 49′†	30.15	765.8	69	20.6	95	sw.			5		5		w.			short	wsw.	
S. S. Hermod, N. 40° 25′, W. 64° 45′*†	30.12	765.0	78.8	26		s.			4		10		sw.	2 h'r	2 h'r	mod.	se.	rainy.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenapp, S 0° 19′, W. 45° —′†	29.97	761.2				ese.			3		4		ese.	4 h'r	4 h'r	h'vy		raining.
MORGAN LINE.																		
S. S. Chalmette, Algiers, Louisiana†	30.10	764.5	83	28.3		wsw.			1		5		s.	2 h'r	2 h'r	sm'h		fair.
S. S. New York, N. 31° 20′, W. 79° 00′†	30.19	766.8	83.0	28.3		ne.			5		5?		ne.	0	0	sm'h		clear?
NATIONAL LINE.																		
S. S. Canada, N 49° 18′, W. 18° 57′†	29.92	760.0				wnw.			4		8		w.	2 h'r	2 h'r	mod.	wnw.	fine.
S. S. Denmark, N. 48° 35′, W. 23° 00′	29.96	761.0	64	17.8		wnw.			3		10		w.	0	0	mod	w.	overcast.
S. S. England, N. 48° 45′ W. 29° 28′	29.95	760.7				w.			0		8		w.	0	0	mod.	w.	misty.
S. S. Erin, Liverpool, Eng	29.81	757 2	67	19.4		s.			3		8		ssw.	2 h'r	2 h'r			showery.
S. S. Helvetia, N. 40° 36′, W. 70° 12′	30.03	762.7	71	21.7		nw.			1				nw.	0	0	sm'h		fair.
S. S. The Queen, N. 40° 40′, W. 52° 10′	30.10	764.5	75	23.9		sse.			5		5?		calm	2 h'r	2 h'r	mod.	sse.	clear?
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.†	30.00	762.0	70	21.1	90	ssw.			4									fair.
S. S. City of Puebla, N. 28° 19′ W. 79° 10′†	29.97	761.2	84	28.9		ne.			4		5		s.			light	ne.	fair.
S. S. City of Washington, N. 25° 13′, W. 80° 00′*†	30.20	767.1	84	28.9		n.			4		5		nne.	0	0	light	ne.	fine.
NORTH GERMAN LLOYD.																		
S. S. America, N 48° 52′ W. 21° 22′*	29.97	761.2	65.5	18.6	73	wnw.			4		8		n.	0	0	mod.	nw.	clear.
S. S. Graf Bismarck, N. 16° 08′, W 24° 00′	29.99	761.7	78.8	26.0		wsw.			2		2		se.	0	0	sm'h	s	clear.
S. S. Hohenstaufen, N. 40° 50′, W. 55° 05′	30.06	763.5	80.6	27.0		sse.			3		4		sse.	3 h'r	3 h'r	2	sse.	fair.
S. S. Koln, N. 42° 34′ W. 55° 11′ *	30.05	763.3	76.0	24.4	86	sse.			4		8		se.	0	0	sm'h	s.	clear.
S. S. Leipzig, N. 39° 27′, W. 65° 16′	30.07	763.8	79.0	26.1	86	sse.			3		0			0	0	sm'h		clear.
S. S. Main, N. 50° 58′, W. 20° 42′	29.75	755.6				w.			1		4		nw.	0	0	mod.	w.	clear.
S. S. Neckar, N. 48° 05′, W. 23° 58′	29.96	761.0	62.0	16.7	88	wsw.			4		8		nw.	0	0	mod.	nw.	fair.
S. S. Ohio, Baltimore, Md	30.06	763.5				sw.			1–2		0			0	0			fair.
S. S. Sailer, N. 40° 28′, W. 70° 08′	30.01	762.2	63.5	17 5		w.			2		2		w.	0	0	mod.	w.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 38° 40′, W. 124° 30′†	29.90	759.4	57	13.9	94	nnw.			6		8		nw.	shr's	shr's	high	nw.	dull.
S. S. Belgic, N. 34° 41′, E. 139° 10′†	30.15	765.8	80	26.7	87	ssw.			4		2		sw.	7 h'r	7 h'r	mod	sw.	clear.
S. S. Coptic, N. 39° 53′, E. 150° 14′	30.07	763.8	72.0	22.2	98	e.			3		8		e.	0	0	2	ne.	d. clouds.
S. S. Gaelic, N. 26° 14′, E. 121° 37′†	29.82	757.4	80	26.7	78	wnw.			4		8		w.			sm'h		cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 37° 17′, W. 74° 56′†	30.11	764.8				w.			3		8		sw.	0	0	sm'h		squally.
S. S. Seminole, N. 37° 50′, W. 74° 05′†	30.12	765.0	78	25.6	91	nw.			4		2		nnw.	1 h'r	1 h'r	mod.	sw.	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 45° 42′, W. 124° 21′†	30.01	762.2	59	13.3	94	n.			4		10		n.			mod	nnw	foggy.
S. S. Oregon, San Francisco, Cal †	29.89	759.2	56	13.3	94	calm			0		10		w.					hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Calf	29.84	757.9	56	13.3	94	w.			2		10		wnw.					cloudy.
S. S. City of Chester, N. 33° 07′ W. 117° 42′ *†	29.84	757.9	67	19.4	100	ssw.			2		8		nw.			mod	nw.	cloudy.
S. S. Idaho, N. 37° 50′, W. 122° 49′†	29.86	758.4	53	11.7	100	ssw.			3		10		wsw.	0	0	mod.	nw.	cloudy.
S. S. State of California, Portland, Oregon†	30.01	762.2	57	13.9	74	w.			3		5		wnw.					fair.
S. S. Victoria, N. 39° 24′ W. 124° 08′†	29.86	758.5	51	10.6	100	nnw.			5		5?			driz	driz	r'gh	nw.	overcast?
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 33° 11′, E. 169° 00′	29.91	759.7	58	14.4	86	e.			2		0			0	0	long	e.	clear.
S. S. City of New York, Sydney, N. S. W†	30.23	767.8	56	13.3	75	sw.			1		10		sw.	3 h'r	3 h'r			overcast.
S. S. City of Pekin, N. 45° 56′, E. 170° 14′†	30.40	772.1	56	13.3	100	sw.			4		10		sw.	0	0	sm'h		cloudy.
S. S. City of Rio de Janeiro, N 25° 03′, W. 112° 43′*†	30.11	764.8	71	21.7	90	nw.			1		5		nw.	0	0	light	s.	hazy.
S. S. City of Tokio, N. 24° 26′, E. 119° 01′†	29.84	757.9	79	26.1	95	s.			2		0			0	0	light	sw.	fine.
S. S. Colima, Acapulco, Mexico †	29.93	760.2	76	24.4	82	nne.			2		10		calm	0.25	0.3			cloudy.
S. S. Colon, Aspinwall, Panama†	29.99	761.7	79	26.1		nw.			1		10		nnw.	2 h'r	2 h'r	sm'h		overcast.
S. S. Costa Rica, N. 16° 45′, W. 99° 50′ *	29.91	759.7	79	26.1	91	nnw.			2		6		e	2 h'r	2 h'r	small	s.	fair.
S. S. Grenada, N. 8° 32′, W. 84° 00′†	29.91	759.7	78	25.6	86	wsw.			2		10		sw.	4 h'r	4 h'r	sm'h	ssw.	rainy.
S. S. Zelandia, S. 9° 27′, W. 168° 40′	29.99	761.7	82	27.8	91	e.			3		0					sm'h		clear.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, off Tobago, W. I	30.06	763.5	83	28.3		ene.			3		10			0	0	sm'h		overcast.
RED D LINE.																		
S. S. Valencia, La Guayra, Venezuela*†	30.17	766.3	82	27.8	79	ne.			1		2		sse	0	0	sm'h	ne.	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Belgenland, Philadelphia, Pa.†	30.14	765.5	75	23.9	86	calm			0		9							foggy.
S. S. Pennland, N. 42° 45′, W. 47° 29′	30.23	767.8				sw.			3		1		wsw.	0	0	sm'h	s.	clear.
S. S. Rhynland, N. 50° 00′, W. 2° 00′	30.09	764.3	71	21.7	57	sw.			5		8		sw.	0	0	sm'h		hazy.
S. S. Switzerland, N. 39° 32′. W. 60° 11′†	30.12	765.0				nw.			3		8		n.	0	0	mod.	n.	fair.
S. S. Vaderland, N. 46° 55′. W. 31° 07′	29.86	758.4	66	18.9	94	sw.			4		10		wsw.	0	0	mod	wsw.	overcast.
S. S. Waesland, ,N. 40° 28′ W. 70°, 54′	29.96	761.0	78	25.6	82	w.			3		0			0	0	sm'h	w.	clear.
ROTTERDAM LINE.																		
S. S. Edam, N. 49° 12′, W. 16° 59′	29.80	756.9	66.8	19.3	96	w.			6		7		w.	6 h'r	6 h'r	mod.	nw.	cloudy.
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, St. Ann's Bay, Jamaica; W. I.	30.08	764.0	83	28.3		calm			0		2		e.	0	0	g'tl	e.	clear.
STATE LINE.																		
S. S. State of Florida, N. 41° 23′, W. 58° 30′	29.99	761.7	72	22.2		nne.			2		4		s.	0	0	sm'h		fair.
S. S. State of Indiana, N. 44° 57′ W. 54° 37′†	30.22	767.6	63	17.2		calm			0					0	0			foggy.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y†	30.36	771.1	70.7	21.5		ne.			1		1		ne.	0	0			clear.
WARREN LINE.																		
S. S. Iowa, N. 51° 36′, W. 8° 20′*†	29.81	757.2	66	18.9		nw.			3		9		nw.	0	0	sm'h		hazy.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 40° 14′, W. 68° 42′	29.99	761.7	75	23.9					3		8			4 h'r	4 h'r			
WHITE STAR LINE.																		
S. S. Adriatic, N. 48° 31′, W. 38° 30′*	30.13	765.3	60	15.6	97	w.			5		5?		w.	4 h'r	4 h'r	mod.	w.	clear.?
S. S. Baltic, Off Queenstown., Ireland	29.70	754.4	64	17.8	89	sw.			3		6		sw.	2 h'r	2 h'r	sm'h		d. clouds.
S. S. Celtic, N. 40° 28′ W. 70° 22′†	30.08	764.0	74	23.3	86	var.			1		0			0	0	sm'h		clear.
WINSOR LINE.																		
S. S. Catherine Whiting, Fire Island, N. Y.†	30.04	763.0	72	22.2		w.			1		0			0	0	light	sw	
MISCELLANEOUS																		
Bk. Adelaide, N. 32° 43′. W. 54° 25*†	30.10	764.5	82	27.8		wnw.			4		1		sw.	0	0	light	ene.	clear.
Bk. Alpha, N. 57° 45′ E. 8° 00′†	30.01	762.2	66	18.9		ese.			3		8		w.	0	0	sm'h		cloudy.
Schr. Anna R. Holton, N. 37° 10′ W. 74 20′†	30.05	763.3	80	26.7		nw.			1		8			6 h'r	6 h'r	mod.	s.	cloudy.
Bk. Anna Thormann, S. 30° 30′, E. 102° 41′	30.06	763.6	57.0	13.9	60	sse.			5		3 k;n		s.	sh'rs	shr's	long	s.	fair
S. S. Antonio Lopez, N. 27° 56′ W. 53° 19′*	30.12	765.0	82.5	28.1	82	sw.			1		2			0	0	sm'h		clear.
Bk. Argonaut, N 40° 47′, W. 66′ 52′*†	30.02	762.5	66.6	19.2		wsw			2		3		n.	2 h'r	2 h'r	sm'h	w.	rainy.
Bk. Aureola, N. 9° 41′ W 42° 57′*†	30.00	762.0	73	22.8		ssw.			2		9		sw	6 h'r	6 h'r	sm'h	sw.	cloudy.
Bk. B. F. Watson, N. 25° 09′ W. 38° 18′†	30.15	765.8	80	26.7		e.			4		2		e.	2 h'r	2 h'r	sm'h	e.	fine
Bk Bergenseren, N. 44° 10′ W. 44 20′†	30.28	769.2				wsw.			3		0			0	0	2	wsw.	clear.
Bk Bremen, N. 53° 10′ W. 27° 15′*†	29.55	750.6				sw.			5		10		sw.	12 h'r	12 h'r	cross	sw.	raining.
Bk. Cato, Malmö, Sweden*†	30.37	771.4				w.			4									clear.
Bk. Celestina, N. 14° 32′, W. 25° 12′*†	29.94	760.5				w.			3		10		w.	20 h'r	20 h'r	mod.	sw.	cloudy.
S. Cornelius, N. 49° 13′. W 7° 27′*†	30.03	762.7	59.4	15.2		ssw.			4		8		sw.	0	0	sm'h	w.	cloudy.
S. Dora, S. 5° 20′ W. 26° 25′†	30.15	765.8				se.			4–5		6 k		ese.			r'gh	se.	fair.
Schr. Edith R. Seward, N. 38° 26′, W. 76° 18′*†	30.09	764.3	70	21.1		w.			1		2		w.	0	0			clear.
S. E. J. Spicer, N. 40° 48′, W. 62° 50′*	30.02	762.5	77	25.0		ssw.			3		1		sw.	0	0	mod.	se.	fair.
S. Enoch Train, N. 50° 45′, W. 9° 59′†	29.93	760.2				ssw.			2		9		ssw.	0	0	sm'h		hazy.
Bk. Essex, N. 9° 41′ E. 51° 40′*†	29.80	756.9	80	26.7		ssw.			5		5		ssw.	0	0	hv'y	ssw	cloudy.
Bk. Franklin, N. 58° 47′, E. 3° 30′*†	30.22	767.6				sse.			3		8			0	0	sm'h		foggy.
Bk. Freya, N. 37° 00′, W. 71° 10′			84	28.9		w.			3		10		nw.	1 h'r	1 h'r	sm'h		squally.
S. Glendon, N. 37° 20′ W. 54° 40′†	30.01	762.2	86	30.0		e.			4		8		e.	0	0	sm'h		fair.
Bk. Godfrey, N. 33° 43′, W. 17° 46	30.18	766.6	71.4	21.9	82	sw.			1		2		w.	0	0	sm'h	nnw.	clear.
S. Grecian, N. 14° 00′, E. 110° 15′*†	29.80	756.9	84	28.9		sse.			6		0			0	0	sm'h		clear.
Bk. Gronsvaer, N. 26° 00′ W. 37° 40′†	30.14	765.5				e.			5		0			0	0	sm'h		clear.
Bk. Hattie G. McFarland, Bath,*†	29.88	758.9	74	23.3		w.			3		8		wsw.	0	0			cloudy.
Schr Hattie Weston, N. 24° 57′ W. 70° 34′*†	30.18	766.6	83	28.3		sse.			1		2		s.	1 h'r	1 h'r	long	se.	fair.
Bk. Heinrich & Tonio, N. 45° 00′, W. 22° 35′*†	30.30	769.6	66	18.9		nnw.			3		8 ck		nnw.	2 h'r	2 h'r	light	nnw.	fair.
Schr. Henry Denison, N. 35° 12′, W. 74° 20′†	30.08	764.0				calm			5							high	se.	
S. Ivy, S. 43° 48′, W. 100° 10′†	30.91	785.1	43	6.1		ese.			3		7		se.			mod.	cross	drizzling.
S. Ismir, S. 1° 10′ E. 106° 55′†	29.93	760.2				s.			2		5		s.	0	0		sm'h	fine.
Schr. James Slater, N. 39° 55′ W. 74° 05′*†	30.28	769.1	76	24.4		w.			3		0			4 h'r	4 h'r	light	sse.	
Schr. Jennie N. Huddell, Off Cape Henlopen, Del†	30.02	762.5	75	23.9	90	nw.			1		2		sw.	0	0	short	sse.	threatening.
Bk. Johanne, N. 41° 00′, W. 67° 13′*†	30.07	763.8	67	19.4		wsw.			3		2		wnw.	0	0	sm'h		foggy.
Bg. John Wesley, N. 19° 50′, W. 75° 30′†	29.88	758.9				n.			2		2		ese.	0	0	mod.	ese.	clear.
Bk. Joseph A. Ropes, S. 39° 22′, E. 14° 09′*†.	29.80	756.9	55	12.8	73	w.			4		9		w.	3 h'r	3 h'r	mod.	wnw.	cloudy.
Bkt. Josephine, Havana, Cuba, W. I†	30.04	763.0	80	26.7	86	calm			0		5			0	0			hazy.
S. S. Lamperts, N. 36° 30′, W. 4° 53′*	29.95	760.7	72.2	22.3	75	calm			0		0							blue sky.
S. S. Laurel, Key West†	30.10	764.5	84	28.9		wnw.			2		6		n.	2 h'r	2 h'r			thnd'rst'rm
Bk. Liberia, N. 34° 58′, W. 68° 11′*	30.03	762.7	83	28.3	91	wnw.			1		2			0	0			
Schr. Maggie Abbot, Port au Prince, Hayti†	30.03	762.7												0	0			clear.
S. Minnie N. Gerow, N 39° 24′, W. 15° 24′*†	29.96	761.0				ssw.			6		5		sw.			sm'h	sw.	fine.
S. M. P. Grace, S. 31° 16′, W. 94° 28′*	30.12	765.0	54	12.2		se.			2				se.	rain	rain	high	se.	cloudy.
Bk. National Eagle, N. 40° 11′ W. 27° 03′†	30.16	766.1				n.			3		4		nne.	1 h'r	1 h'r	mod.	nne.	
S. S. Nebo, N. 36° 40′, W. 2 25′*†	29.83	757.7				calm			0		0			0	0			clear.
S. Oracle, N. 38° 28′, W. 59° 26′*	30.10	764.5	82	27.8	82	se.					0							clear.
S. Orealla, N. 15° 08′, W. 34° 20′*.	29.97	761.2				e.			3		1		e.	0	0	long	s.	clear.
Bk. Rosebud, S. 34° 02′, E. 54° 00′*†	30.30	769.6	55	12.8	93	s.			6		5?		sw.	0	0	str'g	sw.	cloudy ?
S. St. Francis, N. 34° 05′ W. 47° 36′†	30.20	767.1	78	25.6		se.			4		3		se.	0	0	long	ne.	squally.
Bk. Sunbeam, N. 39° 27′ W. 33° 28′†	30.39	771.9	75	23.9	85	n.			3		2		n.	0	0	mod.	ene.	clear.
S. S. Sunbeam, N. 49° 49′, W. 3° 53′	29.83	757.7	64	17.8	94	sse.			3		9		sw.			sm'h		showery.
S. Sovereign Of The Sea, S. 45° 38′ W. 63° 07′*†	30.10	766.1	41	5.0	83	sw.			3		5		wsw.	2 h'r	2 h'r	sm'h	ssw.	fair.
Bg. Teneriffe, N. 30° 35′, W. 79° 20′	30.01	762.2				var.			1									fine.
U.S. F.C. S. S. Fish Hawk, Wood's Holl, Mass†	30.13	765.3	71	21.7	95	wsw.			4		8		w.	0	0			cloudy.
Schr. Victor Ping, N. 28° 50′, W. 66° 40′*†	30.09	764.3				s.			1		1		ese.			sm'h	se.	fair.
Bk. Vincenzo Accame, N. 37° 11′, W. 52° 32′†	30.28	769.0	82.4	28		sse.			8									
Schr. Viola Reppard. N. 30° 04′, W. 78° 37′†	30.05	763.3	84	28.9		calm			0		0			0	0	sm'h		
Bg. Wauburn, N. 17° 33′, W. 73° 32′*†.	30.10	764.5				e.			4		2		e.			sm'h	e.	¼ covered
Bk. Warden Law, N. 58° 40′, W. 2° 55′*	29.61	752.1				sw.			2		10		n.	0	0	sm'h	ne.	fair.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 14, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.04	763.2	83.5	28.6	55	s.			1		2			0	0	fair	Bouvier.
Algiers			29.99	761.8	82.0	27.8	74	n.			1		6			0.327	8.3	cloudy	Thèye.
La Galle			30.05	763.2	94.6	34.8	58	nnw.			1		4			inap.	inap.	cloudy	Fonfrède.
Tunis			30.06	763.4															Jacques.
Saida			30.11	764.7															Perès.
Tebessa			30.10	764.5	91.0	32.8	12	wnw.			4		2			0	0	fair	Rigaud.
Geriville					95.7	35.4	9	sw.			5		3			inap.	inap.	cloudy	Lonchamp.
Laghouat			30.17	766.2	99.7	37.6	34	se.			2		1			0	0	very fair	Abraham.
Biskra			30.13	765.4	98.6	37.0	24	se.			2		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.25	768.3	30.34	770.6	45.0	7.2	89	sw.	6	2.7			1			0.02	0.5	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.50	749.4	30.02	762.6	82.6	28.1	54	sw.			1		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.22	742.2	29.96	760.9	78.1	25.6	57	e.	1.3	0.6			4			0	0		Dr. Wierzbiski.
Eperies	29.19	741.5	30.03	762.7	80.2	26.8	51	calm			0	3 cs	0			0	0		Julius Mikolik.
Gratz	28.82	732.0	30.01	762.2	76.3	24.6	74	sw.			2		2			0	0		Andreas Rosplut.
Hermannstadt	28.68	728.5	30.03	762.7	81.5	27.5	47	s.			1		3			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.72	729.6	30.01	762.3	73.8	23.2	73	nnw.			2		7			0.421	10.7	cloudy	The Staff.
Lemberg	29.15	740.4	30.10	764.4	75.7	24.3	60	ne.			2		2			0	0		Dr. T. Stanecki.
Pola	29.95	760.8	30.06	763.5	81.1	27.3	56	se.			3		10			0	0		I. R. Hydrographic Office.
Szathmar	29.58	751.3	30.03	762.7	81.5	27.5	48	n.			1		1			0	0		Joseph Midlinszky, S. J.
Szegedin	29.80	756.8	30.06	763.0	80.2	26.8	56	calm			0		0			0	0		Karl Stancel.
Trieste																			Royal Academy.
Vienna	29.34	745.3	30.02	762.6	80.2	26.8	55	se.			1		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.52	749.8	29.62	752.3	67.0	19.5	74	s.	13	5.8			3			0.050	1.3	blue sky	W. Boswell
Armagh, Observatory	29.45	748.0	29.67	753.0	61.4	16.3	85	sw.	11	4.9			10					showery	S. Call.
Bidston, Liverpool Obs'y			29.75	755.6	65.3	18.5	73	ssw.	9	4.0			10					overcast	John Hartnup.
Bolton, Sharples	29.21	741.9	29.73	755.1	66.8	19.3	73	ssw.	6	2.7			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.35	745.5	29.75	755.6	69.0	20.9	50	sw.			2		8			0.20	5.1	d. clouds	J. McLandsborough.
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	84.0	28.0	68	ne.			2		2					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			29.81	757.2	74.0	23.3	65	sw.			1.0		5					d. clouds	John McLaren.
Chatham, School M. E.	29.77	756.1	29.90	759.4	69.7	20.9	67	s.			2		8					d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.57	751.1	29.79	756.7	62.6	17.0	91	sse.			1		10					foggy	The Staff.
Fort Napier, Natal	27.86	707.6	30.08	764.0	65.0	18.3	48	e.			1		7						Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.70	754.4	29.94	760.5	85.0	29.4	75	sw.			1		5					lightning	Sergt. John Robinson.
Gibraltar, Mediterranean	30.06	763.5	30.11	764.8	78.1	25.6	86	sw.			4		0					blue sky	Corpl. F. Norris, A. H.C
Glasgow, Observatory	29.45	748.0	29.66	753.4	66.8	19.3	67	wsw.			4		6					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.69	754.1	29.86	758.4	69.9	21.1	69	ssw.					7					d. clouds	The Staff.
Guernsey	29.64	752.8	29.94	760.5	65	18.3	86	ssw.			2		8					raining	A. Collenette, F. M. S.
Kew, Observatory	29.83	757.7	29.87	758.7	67.7	19.8	72	sw.	15	6.7			7					d. clouds	The Staff.
Leicester, Museum	29.53	750.0	29.77	756.1	73.0	22.8	56	sw.			2		5					d. clouds	J. C. Smith.
Malta, Mediterranean	29.96	761.0	30.03	762.7	80.2	26.8	76	ne.			2		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.02	762.5	30.00	763.5	78.8	26.0	79	w.			1		10					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.30	744.2	29.81	757.2	64.0	17.8	92	s.			2		8					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.00	751.8	29.83	757.7	71.1	21.7	66	s.			3		6					d. clouds	The Staff.
Plymouth	29.74	755.4	29.82	757.4	67.3	19.6	82	sw.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.58	751.3	61.2	16.2	92						5					showery	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.88	758.9	29.95	760.7	84.2	29.0	55	ne.			2		7					d. clouds	W. H. Lyne.
Sheffield	29.50	749.3	29.77	756.1	73.9	23.3	54	sw.			2		4			0.05	1.3	d. clouds	W. F. Cooper.
Stilloth Rectory	29.67	753.6	29.70	754.4	65.1	18.4	80	sw.			4		8			0.125	3.2	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.77	756.1	66.0	18.9	68	sw.	12	5.4			10					overcast	I. New.
Strathfeld Turgiss					70.7	21.5	60	sw.			1		8					d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.76	755.9	29.77	756.1	70	21.1	79	sw.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	29.65	753.1	29.68	753.9	62.5	16.9	75	s.	25	11.2			10			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.93	760.2	29.97	761.2	62	16.7	68	w.	5	2.2		0	0			0.020	0.5	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.94	760.5	30.00	762.0	52	11.1	86	s.	5	2.2		2 c	0	s.		0.10	2.5	fair	G. A. Blair.
Father Point, Quebec*	29.88	758.9	29.90	759.4	57	13.9	84	sw.	28	12.5		8 k	2 s	w.	w.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.74	730.0	29.54	750.3	57	13.9	90	sw.	8	3.6		0	5 ks		sw.	0.56	14.2	fair	James Stewart.
Halifax, N. S*	29.91	759.7	30.03	762.7	60	15.6	75	nw.	1	0.4		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.65	753.1	29.97	761.2	64	17.8	81	s.	13	5.8			10 ks		w.	0	0	threatening	A. P. Knight, M. A.
Montreal, Quebec*	29.80	756.9	30.00	762.0	60	15.6	81	w.	7	3.1			10 ks		w.	0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.19	741.4	29.80	758.4	64	17.8	90	s.	11	4.9		2 k	2 k	sw.	sw.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.29	744.0	29.96	761.0	63	17.2	100	calm	0	0			fg.			0	0	foggy	H. Morgan.
Port Stanley, Ontario	29.33	745.0	29.95	760.7	67	19.4	97	w.	1	0.4		2 c	1 k	nw.	nw.	inap.	inap.	fair	M. Payne.
Quebec, Quebec*	29.69	754.1	30.01	762.2	52	11.1	80	w.			1	0	2 s		w.	0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.46	748.3	29.91	759.7	55	12.8	90	se.	5	2.2			10 s		se.	0.08	2.0	light rain	W. H. McIntyre.
Saugeen, Ontario*	29.17	740.9	29.85	758.2	68	20.0	81	s.	13	5.8			10 ks			0	0	cloudy	
St. Andrews, N. B	30.00	762.0	30.05	763.3	56	13.3	80	calm	0	0		0	0			0	0	clear	
Sydney, C. B*	29.90	759.4	29.96	761.0	63	17.2	78	sw.	6	2.7		0	0			0.11	2.8	clear	T. C. Hill, C. E
Toronto, Ontario*	29.58	751.3	29.96	761.0	62	16.7	87	calm	0	0			10 ks		sw.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.99	761.7	30.06	763.5	52	11.1	93	calm	0	0		0	0			0	0	clear	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.56	725.4	29.99	761.7	63.0	17.2	91	wsw.			3-4		10kn		wsw.	0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.91	759.7	30.15	765.8	68	20.0	85	sw.				0	0			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.26	768.6	30.28	769.1	63	17.2	77	w.	12.1	5.4		0	1 s			0	0	hazy	C. Hansen.
Cape Town, C. G. H. Obs'y	30.30	769.6	30.33	770.4	60.5	15.8	74	nw.	20	8.9		4	8			1.120	28.4		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.60	751.8	29.62	752.4	78.1	25.6	88	nw.	5.6	2.5			2			0.193	4.9	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.93	760.2	29.98	761.4	72.3	22.4	72	sse.	18	8			4						Oversergent Fischer.
Fanöe	29.94	760.5	29.96	761.0	68.4	20.2	83	ssw.			4		9						Overloerer Lauridsen
Godthaab, Greenland	29.89	759.1	29.93	760.2	37.8	3.2	93	wsw.			2		10			0.004	0.1	foggy	S. Kleinschmidt.
Ivigtut	29.89	759.2	29.91	759.7	43.3	6.3		calm			0		4						
Stykkisholm, Iceland	29.69	754.2	29.74	755.3	42.8	6.0	78	e.			4		8						A. O. Thorlacius.
Thorshavn	29.47	748.5	29.50	749.4	58.5	14.7	88	sw.	7	3			8						Overloerer Bergh.
Vestervig	29.83	757.7	29.92	760.0	65.8	18.8	89	sw.			2		10						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.37	746.1	30.00	761.9	78.8	26	65	sse.			1	0	2 k		w.	0	0	slightly cl'dy	M. Labroue, Director.
Alençon, Normal School	29.45	748.0	30.00	762.0	71.6	22.0	72	s.			1		kn	s.	s.	0	0		M. Nicot, Director.
Arras, Engineer School	29.72	755.0	29.98	761.4	71.6	22.0	69	w.			3		10 n			0	0	covered	M. Fénéon, Command't.
Avignon, Normal School	29.95	760.6	30.02	762.6	69.8	21	91	nw.			1		10					raining	M. Giraud, Director.
Bar-sur-Seine	29.47	748.4	30.00	761.9	78.1	25.6	53	s.			1		7			0.004	0.1	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.72	755.0	29.98	761.4	72.5	22.5	68	s.			1		8		sw.	0.638	16.2	very cloudy	M. Frère Eugène Maris.
Besançon, Normal School	29.05	737.9	29.91	759.8	73.8	23.2	80	s.			1		1		nw.	0.008	0.2	clear	M. Gobin, Director.
Bordeaux, Observatory	29.72	755.0	29.98	761.5	72.9	22.7	70	w.			1		10			0.874	22.2	covered	M. Rayet, Director.
Bourges, Normal School	29.45	747.9	29.98	761.5	75.2	24	55	sw.							sw.	0.67	17.		M. Malet, Director.
Brest, Naval Observatory	29.67	753.6	29.91	759.7	68.7	20.4	85	sw.			3		8		sw.	0.031	0.8		M. de Kermaree, Dir.
Caen, Normal School	29.87	758.6	29.94	760.5	57.9	14.4	89	ssw.			1		5		sw.	0.10	4.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.65	753.0	29.96	760.9	73.8	23.2	73	sw.			1		5			0.693	17.6	cloudy	M. Jadot, Director.
Charleville, Normal School	29.50	749.2	29.99	761.7	77.0	25	68	ssw.			1		5			0.12	3.	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.69	728.6	30.00	761.9	69.8	21.0	70	s.			1		10			0.563	14.3	light rain	M. Alluard, Director.
Cluny, Normal School	29.21	742.0	30.04	762.9	70.3	21.3	67	sw.					10			0.091	2.3		M. de Villemontée, Dir.
Commercy, Normal School	28.32	719.2	30.01	762.2	75.6	24.2	66	w.			1	ck		w.	w.	0.020	0.5		Dr. Coulet, Director.
Gap, Normal School	27.47	697.7	29.91	759.7	74.8	23.8	47	n.			1	0	1k;kn		n.	0.063	1.6		M. Jeanglrard, Director.
Gréasque, du Rhone	28.94	735.	30.03	762.8	72.0	22.2	78	se.			3		10		se.	c	0		M. Kina, Director.
Grenoble, Normal School	29.21	741.8	29.94	760.5	70.2	21.2	70	ese.			1		kn			0.16	4.		M. Ablard, Director.
Lamballe, Normal School					70.7	21.5	69	sw.			2		5		sw.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.39	746.6	29.93	760.3	79.2	26.2	90	w.			4		8			0.748	19.0	very cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.86	758.4	29.96	761.0	68.0	20.0	83	s.			1		10		s.	0.197	5.0	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.01	736.8	30.04	763.0	70.2	21.2	70	s.			1		10 n		s.	0.083	2.1	hazy	M. André, Director.
Mans, Normal School	29.69	754.2	29.99	761.8	70.9	21.6	72	ssw.			1		5		sw.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.77	756.2	30.04	762.9	74.1	23.4	79	s.			1		10		ssw;se	inap.	inap.	sprinkling	M. Stephan, Director.
Montlouis	24.95	633.8	29.80	756.8	68.9	20.5	47	s.	11.2	5.0					sw.	0.134	3.4		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.87	758.6	29.99	761.8	75.7	24.3	82	nne.			1		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.16	740.7	29.91	759.8	76.3	24.6	62	sw.			1	5 ck	0			0.024	0.6	cloudy	M. Hasse, Director
Nantes, Observatory	29.85	758.1	30.01	762.2	77.7	25.4	47	sw.			1–2	0	9 k;kn		w.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.88	758.9	29.98	761.5	73.8	23.2	79	e.	3.8	1.7			10		ssw.	0.008	0.2		Dr. Fines, Director.
Pic-du-Midi, Summit	21.37	542.8			45.0	7.2		w.			1		10		ne.	w.	0.417	10.6	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.98	736.2	30.02	762.4	71.6	22	43	s.			1		5			0.08	2.	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.25	641.3			56.3	13.5	84	se.			1		10			0.528	13.4	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.97	761.1	30.00	761.9	80.6	27.0	100	w.			1		5	sw.		0.08	2.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.72	755.0	29.93	760.2	74.5	23.6	62	sw.			1		5	e.	n.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.91	708.9	29.99	761.7	67.3	19.6	73	e.			1		10		sw.	0.315	8.0	covered	M. Seger, Director.
Rouen, Normal School	29.93	760.2	29.98	761.4	72.3	22.4	63	s.			1		5	sw.		0.291	7.4	cloudy	M. Brotier.
Saint Maur, Observatory	29.83	757.6	29.99	761.8	72.7	22.6	65	sw.			1		6		ssw.	0.165	4.2		M. Renou, Director.
Toulouse, Observatory	29.33	744.9	30.05	763.3	80.4	26.9	65	se.			1		2	e.		0.209	5.3	slightly cl'dy.	M. Baillaud, Director.
Tours	29.81	757.1	29.98	761.6	77.0	25.0	54	sw.			1		5	s.	sw.	0.102	2.6	stormy	M. de Tastes.
Versailles, Observatory	29.51	749.5	30.00	762.0	73.4	23.0	59	sw.			1					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.71	754.6	29.96	761.0	74.5	23.6	69	wsw.			1		6		sw.	0.197	5.0		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.65	727.6	30.04	763.0	73.6	23.1	66	calm			0		5			0.197	5.0		Prof. Jnedt.
Bamberg	29.22	742.2	30.08	764.0	73.0	22.8	66	sw.			1	0	6 s			0.039	1.0	raining	Prof. Dr. Hoh.
Berlin	29.75	755.7	29.92	760.0	84.2	29.0	30	sw.			2		7			0	0		Prof. Dr. Arndt.
Breslau	29.55	750.6	30.08	764.1	81.7	27.6	43	sse.			2		2			0	0		Royal University Obs'y.
Carlsruhe	29.56	750.7	29.97	761.3	77.9	25.5	57	sse.			1		10	sw.		0.083	2.1		Albert Senz.
Cassel	29.27	743.5	29.98	761.6	79.2	26.2	64	s.			2		5	s.		0.012	0.3		Dr. H. Möhl.
Frankfort-on-the-Main	29.65	753.1	30.00	761.9	78.4	25.8	54	sw.			1		6			0	0		Physical Society.
Friedrichshafen	28.63	727.3	30.01	762.3	73.4	23.0	76	s.			1		4	w.		0.201	5.1		Wilhelm, Chief Tel.
Hamburg	29.92	760.0	30.02	762.4	67.1	19.5	89	ssw.			1		10			0.039	1.0		E. Preller.
Kiel	29.95	760 7	29.97	761.1	67.5	19.7	81	w.			2		10			0.004	0.1		Prof. Dr. G. Karsten
Leipsic, Astrom'l Obs'y	29.61	752.2	30.02	762.4	79.9	26.6	61	wnw.			3		6			0	0		H. Leppig, Asst.
Magdeburg	29.80	756.8	29.98	761.6	71.6	22.0	69	wsw.			1	5 c	0	se.		0	0		Dr. Assmann.
Memel	30.14	765.6	30.19	766.8	77.2	25.1	75	sw.			2	0	2 k						Issermann.
Munich	28.28	718.3	30.15	765.8	71.6	22.0	64	ne.			3		5	sw.		0.189	4.8		Dr. C. Lang.
Neufahrwasser	30.08	763.9	30.09	764.3	76.6	24.8	61	e.			1		4	ene.		0	0		A. Lothes.
Neustadt, Palatinate	29.43	747.6	29.96	761.0	78.4	25.8	67	s.			1		10			0.563	14.3		Dicknether.
Stuttgart	29.06	738.1	29.91	759.6	78.8	26.0	52	sw.			3		5	w.		0.008	0.2		Prof. Dr. Schoder.
Wustrow	30.01	762.2	30.04	762.9	69.8	21.0	84	nw.			4	0	5 s			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.62	752.3	29.98	761.6	84.0	28.9		n.			2.5		3			0	0		Schmidt & Wourlisch
INDIAN.																			
Kurrachee	29.58	751.4	29.63	752.6	82.8	28.2	83	wsw.	32.0	14.3			9		w.	0	0	gloomy	
Deesa	29.14	740.0	29.60	751.9	84.8	29.3	64	ssw.	12.0	5.4			6	wsw.	wsw.	0.01	0.3	d. clouds	
Bombay	29.74	755.5	29.78	756.4	81.7	27.6	81	w.	17.0	7.6			7	wsw.	w.	0.20	5.1	d. clouds	
Poona, Yarrowda	27.92	709.1	29.79	756.8	71.8	22.1	88	w.	12.0	5.4			10		w.	0.13	3.3	drizzling	
Trichinopoly	29.53	750.0	29.80	757.0	91.3	32.9	41	nw.	2.0	0.9			10			0	0	overcast	
Bellary	28.30	718.8	29.75	755.6	85.5	29.7	49	nw.	12.1	5.4			9			0	0	gloomy	
Belgaum	27.30	693.3	29.87	758.6	68.8	20.4	94	wsw.	9.0	4.0			10		sw.	0.20	5.1	showery	
Lahore	28.74	730.0	29.45	748.0	95.1	35.1	49	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.62	726.9	29.50	749.4	81.8	27.7	86	e.	1.6	0.7			10			0.35	8.9		
Agra	28.97	735.8	29.52	749.7	92.2	33.4	46	w.	14.0	6.3			1			0	0	d. clouds	
Nagpur	28.62	726.9	29.65	753.1	83.4	28.6	62	nw.	4.0	1.8			8		w.	0.03	0.8	d. clouds	
Jubbulpore	28.28	718.4	29.64	752.8	76.6	24.8	88	w.	4.3	1.9			10		w.	0.07	1.8	drizzling	
Lucknow	29.20	741.5	29.57	751.0	83.0	28.3	76	wsw.	2.8	1.2			9			0.41	10.4	d. clouds	
Allahabad	29.25	743.0	29.56	750.8	85.4	29.7	68	calm	0	0			8		s.	0	0	d. clouds	
Patna	29.40	746.6	29.58	751.3	82.8	28.2	76	w.	4.1	1.8			6	w.	w.	0	0	d. clouds	
Hazaribagh	27.60	701.0	29.57	751.2	82.6	28.1	74	wnw.	8.5	3.8			10		nw.	0	0		
Cuttack	29.53	750.2	29.62	752.2	83.1	28.4	77	calm	0	0			9			0.23	5.8	d. clouds	
Calcutta, Alipore	29.57	751.2	29.60	751.7	81.9	27.7	90	se.	2.0	0.9			10			0.06	1.5	overcast	
Dhubri	29.46	748.3	29.58	751.3	77.3	25.2	97	ese.	2.4	1.1			10			0.04	1.0	overcast	
Chittagong	29.55	750.5	29.64	752.8	79.7	26.5	92	se.	5.1	2.3			10			0.15	3.8	overcast	
Sibsagar	29.26	743.3	29.59	751.7	82.8	28.2	88	sw.	6.0	2.7			10	w.	w.	1.14	29.0	d. clouds	
Jeypore	28.14	714.9	29.55	750.6	89.7	32.1	45	wsw.	4.3	1.9			2		wsw.	0	0	d. clouds	
Zanzibar, Africa	30.04	763.0			81.6	27.6	40	sse.	6.2	2.8			2			0	0	d. clouds	
ITALIAN.																			
Udine	29.69	754.1	30.08	764.1	82.6	28.1	43	sw.	1.8	0.8			8			0	0		Prof. Giovanni Clodig.
Milan	29.56	750.8	30.06	763.4	84.4	29.1	40	s.	5.6	2.5			7	sw.		0	0		Prof. Schiaparelli.
Padua	29.95	760.6	30.05	763.3	84.2	29.0	43	ese.	6.9	3.1			9			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.15	740.3	30.02	762.5	80.1	26.7	50	e.	5.6	2.5			8	nw.		1.209	30.7		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Genoa	29.90	759.5	30.09	764.2	79.2	26.2	54	se.	7.4	3.3			10	s.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.18	715.8	30.02	762.4	77.0	25.0	47	nw.			4		1	wsw.		0	0		Prof. D. O. Bruno
Pesaro	30.01	762.2	30.06	763.4	81.5	27.5	47	e.	10.5	4.7			9			0	0		Prof. Luigi Guidi.
Florence	29.83	757.6	30.07	763.8	87.8	31.0	30	nw.			2		10	sw.		0	0		Prof. Costantino Pitt'er
Leghorn	29.93	760.2	30.01	762.3	83.8	28.8	45	s.	1.3	0.6			10	sw.		0	0		Prof. P. Monte.
Rome	29.93	760.3	30.10	764.6	86.7	30.4	35	sw.	0	0			9			0	0		Prof. P. Tachini.
Lecce	29.84	757.9	30.08	764.0	80.6	27.0	42	e.	10.5	4.7			3			0	0		Prof. C. de Giorgi
Cosenza	29.22	742.3	30.08	764.0	83.7	28.7	71	sse.	1.8	0.8			1	se.		0	0		Prof. D. Conti.
Cagliari	29.83	757.7	30.02	762.5	82.6	28.1	67	se.			4		7			0	0		Prof. A. Pacinotti.
Palermo	29.90	759.5	30.14	765.6	80.4	26.9	55	ne.	9.4	4.2			0			0	0		Prof. G. Giacciatore.
Syracuse	30.04	763.1	30.09	764.2	82.0	27.8	61	nne.	1.8	0.8			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.62	752.3	30.12	765.1	83.3	28.5	65	se.	3.1	1.4			6	w.		0	0		Prof. T. Brioschi.
Stelvio	22.41	569.3			51.4	10.8	65	w.			2		8			0.252	6.4	misty	Prof. P. F. Denza
Valdobbia	22.42	569.5			52.3	11.3	85	nw.			2		10			1.378	35.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.77	756.1	29.80	756.9	76.0	24.4	86	wnw.	11.9	5.3			10 n		w	0.810	20.8	light rain	K. Ogawa.
Hakodate	29.77	756.1	29.78	756.4	71.8	22.1	95	se.	3.0	1.3			10			0.870	22.1	overcast	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.80	756.9	29.97	761.2	79.6	26.4	77	sw.	3.9	1.7		0	0			0	0	clear	M. Fojima.
Nagasaki, I. M. Obs'y	29.67	753.0	29.87	758.6	76.7	24.8	85	e.	7.8	3.5		0	5 s			0.040	1.0	fair	
Nemuro	29.79	756.6	29.85	758.2	63.5	17.5	93	calm	0	0		10	0			0.200	6.0	foggy	
Niigata	29.87	758.7	29.90	759.5	78.2	25.7	89	calm	0	0			10 ck			0.050	1.3	overcast	M. Morita.
Nobiru	29.85	758.1	29.86	758.5	76.6	24.8	93	nnw.	0	0			10 s			0.085	2.2	covered	H. Midzushina.
Osaka	29.94	760.5	29.95	760.7	81.2	27.3	71	wsw.	7.4	3.3		1 ck;c	ck;cs			0	0	fair	
Sapporo					70.6	21.4	94	se.	1.2	0.5			10			0.800	20.3	rainy	
Tokei Obs'y, Yeddo	29.84	757.9	29.91	759.8	78.4	25.8	78	ssw.	7.3	3.2		0	0			0	0	clear	The Staff.
Wakayama	29.93	760.2	29.98	761.5	79.8	26.6	80	ssw.	4.7	2.1		0	1		ssw.	0.012	0.3	fair	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.97	761.2	30.16	766.1	70.9	21.6	70	ese.	15.0	6.7			10ks;kn		se.	0.11	2.8	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	601.9	29.92	759.9	57.2	14.0	98	calm	0	0		1 c	1 k		sw.	0.634	16.1	clear	Prof. Vicente Fernandez.
Leon.†	24.37	619.0	30.07	763.8	59.5	15.3	91	n.			1	5 c	1 k	s.	s.	0.292	7.4	cloudy	Prof. M. Leal.
Mazatlan	29.70	754.4	29.96	760.9	78.0	25.6	91	ne.	0.9	0.4			9 n		sw.	0.050	1.5	foggy	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.3	30.12	764.9	57.0	13.9	87	calm			0		10 kn		e.	0.004	0.1	covered	The Staff.
Morelia	24.27	616.5	30.32	770.0	58.8	14.9	74	se.			2	3	3	s.	s.	0.283	7.3	½ cloudy	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.95	608.3	29.92	760.0	63.3?	15.7?	98	calm			0		10 kn		se.	1.000	26.0	covered	M. Y. de Leon, M. E.
Puebla, Catholic Institute	23.41	594.5	30.30	769.7	57.2	14.0	94	calm			0		10		s.	0.674?	12.5?	covered	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D.
Zacatecas	22.59	573.7	30.19	766.9	53.0	11.5	92	e.	4.5	2.0		0	8 n		w.	0	0		J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	29.97	761.2	29.97	761.2	69.3	20.7		wnw.			2					0.189	4.8		
Groningen	29.89	759.2	29.95	760.6	71.6	22.0		sw.			2					0.055	1.4		
Helder	29.94	760.4	29.94	760.4	68.0	20.0		ssw.			4					0	0		
Hellevoetsluis	29.95	760.8	29.95	760.8	69.6	20.9	88	wsw.			1					0.224	5.7		
Utrecht	29.93	760.3	29.98	761.5	71.1	21.7	73	ssw.			2		8			0.130	3.3	very cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.69	754.0	29.75	755.6	62.6	17.0	90	sse.	7	3			10					raining	
Brono	29.75	755.7	29.79	756.7	77.1	25.4	49	se.	4	2			0			0	0		
Christiania	29.76	755.8	29.89	759.3	77.0	25.0	67	s.	9	4			10			c	0		
Gjesvær	29.89	759.2	29.91	759.8	51.4	10.8		ne.			2		10						
Lodingen	29.81	757.2	29.86	758.4	67.8	19.9	58	calm			0		4			0	0		
PORTUGUESE.																			
Angra, Azores					76.1	24.5	67	nnw.	4.3	1.9			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.13	739.8	30.10	764.5	75.2	24.0	53	wsw.	4.3	1.9			8			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.17	766.2	30.25	768.4	73.9	23.3	66	sw.	3.8	1.7			7			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.81	757.1	30.16	766.1	71.1	21.7	51	sw.	16.1	7.2			3			0.026	0.5		The Staff.
Ponta Delgada, Azores	30.31	769.8	30.38	771.0	76.3	24.6	54	ne.	7.4	3.3			5			0	0		
Saint Paul de Loando	29.82	757.5	30.03	762.7	68.5	20.3	83	w.			1		10			0	0		
Serra da Estrella	25.41	645.3	30.11	764.7	53.1	11.7	82	wnw.	12.5	5.6			9			0	0	light fog	
RUSSIAN.																			
Akmolinski	28.49	723.6	29.49	749.1	79.2	26.2	30	w.	11	5		0	3 s			0.035	0.9		Major K. Lasarew.
Archangel	29.93	760.2	29.95	760.7	66.4	19.1	87	wnw.	18	8		0	7 ks			0	0		Capt. Sseliwerstow.
Astrakhan	30.06	763.6	29.98	761.5	90.0	32.2	28	nne.	2	1		0	1 k			0	0		Capt. Wisganow.
Barnaul	29.17	741.0	29.65	753.1	70.2	21.2	44	e.	4	2			4			0.031	0.8		Meteorological Obs'y.
Dorpat	29.98	761.4	30.21	767.3	81.0	27.2	46	ssw.	4	2		0	2 k			0	0		Observatory.
Ekaterinburg	28.90	734.0	29.84	757.8	63.1	17.3	45	n.	11	5		0	5 ks			blank	blank		Meteorological Obs'y.
Irkutsk																			
Kasan	29.79	756.7	30.05	763.2	73.8	23.2	34	n.	7	3		8 ck	0			0	0		Observatory.
Kertch	29.88	759.0	29.90	759.5	79.7	26.5	64	ne.	18	8		0	8 n			0.260	6.6		Lagorio & Sastyrez.
Kieff	29.42	747.2	30.03	762.8	69.1	20.6	83	ssw.	7	3			10 ks;n						Observatory.
Lugan	29.78	759.4	29.97	761.3	88.2	31.2	39	ene.	9	4			5			0	0		Meteorological Obs'y.
Moscow	29.08	753.8	30.13	765.2	76.5	24.7	45	calm	0	0		0	0						Meteorological Obs'y.
Nikolaiev	29.99	761.8	30.06	763.6	72.0	22.2	84	calm	0	0			10 n			0.276	7.0		Capt. Kurdakow.
Nikolaievsk, on the Amoor.																			Lieut. Iwanow.
Pekin, China																			Physical Observatory.
St. Petersburg	29.56	750.7	29.70	754.3	80.4	26.9	84	calm	0	0			9 n			0	0		Central Physical Obs'y.
Semipalatinsk	30.18	766.5	30.19	766.9	75.0	23.9	51	wnw.	11	5		0	1			0	0	light clouds	Major Lasarew
Tashkend, Laboratory	28.99	736.3	29.60	751.8	80.6	27.0	40	wnw.	4	2			4			inap.	inap.		Teich, A. M.
Tiflis	28.24	717.3	29.71	754.6	84.2	29.0	37	calm	0	0			2			0	0		Physical Observatory.
Vindivostock	28.56	725.3	29.88	758.9	92.7	33.7	28	s.	13	6		4 ck	0			0	0		
Warsaw	29.71	754.7	29.78	756.4	73.4	23.0	67	se.	4	2		0	6 n						Astronomical Obs'y.
Wilna	29.70	754.3	30.10	764.5	79.0	26.1	50	n.	2	1		cs	2 k					light clouds	Berg, Assistant.
Yeniseisk	29.76	755.8	30.15	765.9	79.0	26.1	53	calm	0	0			3						M. O. Marks.
SCOTTISH.																			
Monach Lt	29.03	752.7	29.91	759.7	64.4	18.0	75	w.	2	1			8			0	0		
North Unst			29.55	750.6	59	15.0	94	w.			3		10			0.2	5.	hazy	J. Youngclause.
SPANISH.			29.56	750.8				s.			6		10						Robt. Burnet.
Barcelona, Met. Obs'y	29.86	758.4	29.96	761.0	79.3	26.3	73	se.	2.5	1.1		0	3			0.050	1.5		Antonio Rave, Director.
Bilbao, Met. Obs'y	29.94	760.5	30.00	762.0	84.7	29.3	47	nw.	3.1	1.4		2	1	s.		0	0	almost clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.14	689.3	30.00	762.1	72.7	22.6	54	w.	5.4	2.4		0	6			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.4	29.98	761.6	78.3	25.7	46	sw.	15.4	6.9		2	0			0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.86	758.4	30.00	762.1	89.8	32.1	58	se.	3.1	1.4		0	3			0	0	clouds	Olayo Diaz, Director
Oviedo	29.18	741.1	30.04	762.9	69.8	21.0	71	nw.	3.3	1.5		0	6 n			0.024	0.6	cloudy	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.14	740.1	30.01	762.2	67.1	19.5	79	sw.	15.4	6.9			10			0.087	2.2	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.95	760.8	30.02	762.4	76.5	24.7	90	w.	3.6	1.6		3 c;cs	6 n	ne.	nw.	1.33	33.7	raining	Benito Vines, S. J.
Manilla, Philippine Islands	29.89	759.1	29.95	760.6	82.4	28.0	77	sw.	13.0	5.8		0	1 k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.06	763.5	30.10	766.0	73.8	23.2	68	w.	10.6	4.7		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.98	761.6	30.08	763.9	80.6	27.0	86	calm	0	0		3 cs	5 kn	e.	e.	0.050	1.5		Manuel Maese.
Tuguegarao, Philippine Id's	29.76	755.9	29.89	759.2	81.1	27.3	78	nnw.	2.8	1.3		0	0			0	0	clear	José L. Yrastorza.
SWEDISH																			
Haparanda	29.99	761.8	30.03	762.8	66.6	19.2	77	s.			2		0			0	0		
Umea	29.97	761.3	30.02	762.6	71.2	21.8	67	sw.			6		4			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Hernosand	29.99	761.7	30.04	763.0	73.0	22.8	57	s.			4		2			0	0		
Stockholm	29.93	760.3	30.11	764.8	77.0	25.0	47	s.			2		0			0	0		
Wisby	30.04	762.9	30.10	764.4	79.2	26.2	45	s.			6		0			0	0		
Sub-series.																			
Upsala	29.98	761.5	30.07	763.7	76.6	24.8	51	ssw.	15.4	6.9			3	wnw.	ssw.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.67	728.2	30.05	763.2	70.5	21.4	66	sw.			2		10			0.028	0.7	covered	The Observatory
Turkish.																			
Constantinople			30.03	762.7	78.3	25.7	66	nne.	11	5.0			10		ne.	0	0		The Observatory.
Valona			30.22	767.6	81.3	27.4		w.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.84	757.9	86.4	30.2	52	w.			1	0	1 s		sw.	0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	30.00	762.0	30.08	764.0	63.2	17.3	60	w.	2	0.9		0	hz.			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.06	738.1	29.70	754.4	66	18.9	90	s.	14	6.3			10 n		w.	0.04	1.0	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.07	636.8	29.79	756.7	59	15.0	58	e.	5	2.2			10 s			0.02	0.5	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.12	688.8	29.87	758.7	60	15.6	72	n.	1	0.4		9 c	sk.	sw.		0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.92	734.6	30.07	763.8	70.5	21.4	92	n.	5	2.2		1 k	0			0.02	0.5	clear	H. Hall.
Atlantic City, New Jersey	30.03	762.7	30.04	763.0	73	22.8	84	s.	2	0.9		2 ck	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.91	759.7	30.10	764.5	76	24.4	90	nw.	2	0.9			10 s			0.78	19.8	cloudy	John Healy.
Baltimore, Maryland	30.02	762.5	30.07	763.8	74	23.3	71	sw.	3	1.3		0	fg.			0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.02	762.5	30.04	763.0	75.0	23.9	76	w.	3	1.3		0	4 s;fg			0	0	fair	G. A. Hill.
Bennett, Fort, Dakota	28.21	716.5	29.75	755.6	56	13.3	80	nw.	1	0.4		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.13	689.1	29.92	760.0	61	16.1	78	nw.	11	4.9		0	6 k		w.	0	0	fair	S. Wheaton.
Behring Island, Behring Sea	29.72	754.9	29.74	755.4	52.6	11.4		s.	13	5.8			10 ks			0.02	0.5	cloudy	Dr. L. Steineger.
Bismarck, Dakota	27.95	709.9	29.70	754.4	61	16.1	78	nw.	3	1.3		5 k	hz.	w.		0	0	fair	Cyrus Cramer.
Block Island, Rhode Island	30.03	762.7	30.06	763.5	66	18.9	90	ne.	10	4.5		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.08	687.8	29.83	757.7	59	15.0	56	w.	4	1.8		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.94	760.5	30.10	764.5	64.0	17.8	64	nw.	1	0.4		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.89	759.2	29.93	760.2	77.3	25.2	90	se.	4	1.8		5 c;cs	0	s.		0.27	6.9	fair	M. McCarty.
Buffalo, New York	29.25	742.9	29.98	761.5	70	21.1	78	s.	9	4.0		3 cs	6 ks;fg	s.	s.	0	0	cloudy	Clarence Weaver.
Buford, Fort, Dakota	27.84	707.1	29.78	756.4	57	13.9	69	w.	8	3.6		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.74	755 4	30.03	762.7	57.3	14.1	73	s.	5	2.2		7 cs	0	w.		0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.65	753.1	30.04	763.0	73.8	23.2	77	sw.	5	2.2		0	0			0	0	clear	W. H. Ray.
Campo, California	27.37	695.2	29.87	758.7	54.7	12 6	69	ne.	2	0.9		4 ck	0	e.		0	0	fair	W. H. Clendenon
Cape Henry, Virginia	30.06	763.5	30.08	764.0	74	23.3	97	sw.	1	0.4			10 s		s.	0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.02	762.5	30.05	763.3	73.8	23.2	84	sw.	4	1.8		0	0			0	0	clear	W. E. Smith.
Cape Mendocino	29.32	744 7			49	9.4	100	n.	8	3.6			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	29.98	761.5	30.00	762.0	76	24.4	85	ne.	4	1.8		5 c	0			0.50	12.7	fair	F. W. Mixer.
Champaign, Illinois	29.15	740.4	29.94	760.5	65.8	18.8	78	sw.	7	3.1		6 c	3 s	sw.	sw.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.97	761.2	30.02	762.5	79.5	26.4	82	n.	6	2.7		5 ck	4 s		ne.	0.02	0.5	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.21	741.9	30.04	763.0	73.0	22.8	84	se.	2	0.9		10 cs	0			0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.28	743.7	30.09	764.3	70.0	21.1	90	nw.	3	1.3		4 cs	fg.	nw.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.03	610.4	29.73	755.1	50.3	10.2	50	nw.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.18	741.2	29.87	758.7	69.0	20.6	76	sw.	8	3.6			10 n			inap.	inap.	light rain	J. Mitchell.
Chincoteague, Virginia	30.05	763.3	30.07	763.8	75	23.9	97	calm	0	0		0	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.38	746.2	30.02	762.5	70.8	21.6	70	s.	3	1.3		0	hz.			0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.27	743.4	29.99	761.7	67.6	19.8	75	s.	7	3.1		1 c	0	w.		0	0	clear	J. B. Newlin.
Coleman City, Texas	28.15	715.0	29.89	759.2	72	22.2	84	se.	7	3.1		0	9 s		s.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.17	740.9	30.00	762.0	66	18.9	78	s.	4	1.8		0	9 ks		sw.	0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.00	711.2	29.86	758.4	73	22.8	84	s.	8	3.6		0	8 s		s.	0	0	cloudy	W. W. McConihe.
Custer, Fort, Montana	26.69	677.9	29.75	755.6	54	12.2	74	s.	3	1.3		0	8 s		calm	0	0	cloudy	W. B. Lamar.
Davenport, Iowa	29.22	742.2	29.85	758.2	72	22.2	70	sw.	8	3.6		0	8 k		w.	inap.	inap.	cloudy	R. R. Martin.
Davis, Fort, Texas	25.11	637.8	29.76	755.9	69	20.6	59	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.17	715.5	29.88	758.9	54	12.2	67	s.	2	0.9		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.32	643.1	29.75	755.6	54	12.2	64	e.	4	1.8		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					74	23.3	64	se.	12	5.4		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.04	763.0	30.06	763.5	70	21.1	94	sw.	7	3.1		0	0			0	0	clear	T. S. Townsend.
Denison, Texas	29.17	740.9	29.95	760.7	72.8	22.7	90	s.	8	3.6		10 cs	0			0	0	cloudy	J. McGlone.
Denver, Colorado	24.69	627 1	29.71	754.6	59.5	15.3	49	s.	6	2.7		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.93	734.8	29.81	757.2	72	22.2	76	sw.	6	2.7		7 cs	0	w.		inap.	inap.	fair	F. W. Conrad.
Detroit, Michigan	29.26	743.2	29.95	760.7	69.1	20.6	76	s.	6	2.7		4 k;c	3 s	w;n.	w.	0	0	fair	C. F. R. Wappenhaus.
Dodge City, Kansas	27.24	691.9	29.72	754.9	71	21.7	71	se.	7	3.1		0	8 ks		se.	0.01	0.3	cloudy	W. M. Mattingly.
Dubuque, Iowa	29.13	739.9	29.82	757.4	71.2	21.8	84	sw.	6	2.7			10 n		w.	0.08	2.0	thnd'r str'm	J. Harvey Smith.
Duluth, Minnesota	28.96	735.6	29.68	753.9	56	13.3	100	calm	0	0			fg.			0.15	3.8	dense fog	N. B. Conger.
Eagle Pass, Texas	29.13	739.9	29.92	760.0	74.0	23.3	84	se.	3	1.3			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.24	641.1	29.79	756.7	48	8.9	54	s.	5	2.2		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.98	761.5	30.05	763.3	58.0	14.4	70	w.	3	1.3		0	0			inap.	inap.	clear	D. C. Murphy.
Elliott, Fort, Texas	27.12	688.8	29.76	755.9	63	17.2	84	se.	4	1.8		3 c	0	se.		0	0	clear	W. J. Cundall.
El Paso, Texas	26.20	665.5	29.80	756.9	67	19.4	70	nw.	6	2.7		0	0			inap.	inap.	clear	J. F. Marshall
Erie, Pennsylvania	29.28	743.7	29.99	761.7	70	21.1	76	sw.	6	2.7		8 c	0			0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.02	737.1	29.66	753.4	67	19.4	90	sw.	4	1.8		2 c	3 s	nw.	sw.	0.52	13.2	fair	George Heathcote.
Fredericksburg, Texas	28.28	718.3	29.98	761.5	73	22.8	90	sw.	12	5.4			10 ks		s.	0.19	4.8	cloudy	Frank Halwegler.
Galveston, Texas	29.97	761.2	30.02	762.5	80	26.7	88	s.	16	7.2		6 cs	3 k	sw.		0.79	20.1	cloudy	E. O'C. Macherney.
Grand Haven, Michigan	29.20	741.7	29.85	758.2	68.5	20.3	78	s.	18	8.0			10 s		sw.	0	0	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.20	640.1	29.78	756.4	62.9	17.2	87	sw.	3	1.3			10 s			0.05	1.3	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.02	762.5	30.04	763.0	78	25.6	88	ne.	8	3.6		4 ck	3 k	ne.	n.	0.07	1.8	fair	R. M. Crawford.
Helena, Montana	25.77	654.5	29.86	758.4	66	18.9	51	w.	2	0.9		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	28.97	735.8	29.97	761.2	76.0	24.4	82	s.	10	4.5			10 s			0	0	cloudy	J. W. Byram.
Huron, Dakota	28.39	721.1	29.73	755.1	60.2	15.7	84	sw.	4	1.8		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.21	741.9	29.98	761.5	71	21.7	76	sw.	4	1.8		3 k;hz	hz.	sw.		0	0	dense haze	O. Schutze
Indianola, Texas	29.95	760.7	29.98	761.5	79.0	26.1	88	s.	7	3.1		2 cs	2 k	nw.	s.	1.01	25.7	fair	I. A. Reed.
Jacksboro, Texas	28.79	731.3	29.91	759.7	72	22.2	90	s.	5	2.2		2 c	3 s		s.	0	0	fair	J. P. Sherry.
Jacksonville, Florida	29.97	761.2	30.01	762.2	77	25.0	90	calm	0	0		5 cs	0	w.		0	0	fair	J. W. Smith.
Keogh, Fort, Montana	27.32	693.9	29.74	755.4	56	13.3	60	nw.	4	1.8		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.24	742.7	29.87	758.7	75.0	23.9	69	sw.	7	3.1		4 k	0	sw.		0	0	fair	F. Z. Gosewisch.
Key West, Florida	29.96	761.0	29.98	761.5	79.0	26.1	88	n.	9	4.0			10 n		ne.	2.29	58.2	heavy rain	R. H. Paxton.
Kittyhawk, North Carolina	30.07	763.8	30.09	764.3	78.0	25.6	85	e.	7	3.1		3 ck	2 k	w.	e.	0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.09	738.9	30.10	764.5	65.5	18.6	97	ne.	4	1.8		4 cs	2 s			0	0	fair	J. A. Cody.
La Crosse, Wisconsin	28.87	735.8	29.72	754.9	75	23.9	76	s.	10	4.5		0	0			0	0	clear	S. C. Emery
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.01	736.8	29.87	758.7	73	22.8	76	s.	4	1.8		4 cs	4 k		s.	0	0	cloudy	A. W. Browne.
Lewiston, Idaho	29.05	737.9	29.86	758.4	62.5	16.9	42	e	2	0.9		0	3 s			0	0	clear	W. Bell.
Little Rock, Arkansas	29.72	754.9	30.03	762.7	73	22.8	90	calm	0	0		2 ck	4 ks			0	0	fair	W. U. Simons.
Los Angeles, California																			Egbert van Dyke.
Louisville, Kentucky	29.45	748.0	30.00	762.0	72	22.2	84	s.	3	1.3		0	6 k;sk		sw.	0	0	fair	H. C. Smyth.
Lynchburg, Virginia	29.39	746.5	30.06	763.5	65	18.3	84	se.	1	0.4		0	0			0	0	clear	Lewis Duane.
Macon, Fort, North Carolina	30.03	762.7	30.04	763.0	78	25.6	97	ne	9	4.0		7cs;ck	0	s.		inap.	inap.	cloudy	F. P. Chaffee.
Madison, Wisconsin	28 72	729.5	29.70	754.4	69	20.6	90	sw.	12	5.4		5 cs	3 s	w.	w.	0.13	3.3	clearing	C. A. Shaw.
Maginnis, Fort, Montana	25.54	648.7			63	17.2	45	nw.	24	10.7		2 k	0	w.		0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.74	704.6	29.95	760.7	70	21.1	82	s.	4	1.8		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	28.96	735.6	29.67	753.6	64	17.8	00	nw.	2	0.9			10 s		nw.	0.61	15.5	cloudy	J. Gilligan.
Memphis, Tennessee	29.69	754.1	30.02	762.5	75	23.9	85	se.	4	1.8		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.07	738.4	29.85	756.9	69	20.6	78	sw.	18	8.0		2 ck	3 ks	sw.		inap.	inap.	fair	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.67	677.4	29.89	759.2	50	10.0	80	nw.	1	0.4		0	0			0	0	clear	J. H. Jones.
Mobile, Alabama	30.02	762.5	30.06	763.5	75	23.9	88	nw.	3	1.3		5 ck	0	sw.		0	0	fair	C. A. Read.
Montgomery, Alabama	29.83	757.7	30.06	763.5	72.6	22.6	92	w	1	0.4			fg.			0.02	0.5	dense fog	J. B. McLaughlin.
Moorhead, Minnesota	28.68	728.5	29.64	752.8	63	17.2	73	w.	8	3.6		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.10	739.1	30.10	764.5	62.5	16.9	94	calm	0	0			fg.			0	0	dense fog	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.89	606.8	29.97	761.2	37.0	2.8	96	nw.	27	12.1			fg.		nw.	0	0	dense fog	J. G. Linsley.
Nashville, Tennessee	29.47	748.5	30.03	762.7	68.5	20.3	90	n.	1	0.4		0	fg.			0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.96	761.0	30.07	763.8	60	15.6	65	ne.	8	3.6		0	sk.			0	0	clear	J. H. Sherman.
New London, Connecticut	30.03	762.7	30.08	764.0	67	19.4	64	n.	3	1.3		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.05	763.3	79.0	26.1	88	sw.	1	0.4			10 s		sw.	0.01	0.3	threatening	L. Dunne.
Newport, Rhode Island	30.02	762.5	30.07	763.8	68.9	20.5	76	n.	3	1.3		0	0			0	0	clear	W. McGillivray.
New York, New York	29.91	759.7	30.08	764.0	71	21.7	57	ne.	7	3.1		3 cs	0	w.		0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.05	763.3	30.08	764.0	75	23.9	90	calm	0	0		0	hz.			0	0	clear	Wm. Davis.
North Platte, Nebraska	26.95	684.5	29.75	755.6	60.6	15.9	86	nw.	4	1.8		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y.	29.92	760.0	29.96	761.0	51.0	10.6	90	calm	0	0			10 s		n.	0	0	cloudy	J. Dascomb.
Oglaamie, Pt. Barrow, Alas.	29.91	759.7	29.93	760.2	29.8	— 1.2	97	ene.	5	2.2			10 s		e.	inap.	inap.	cloudy	P. H. Ray.
Omaha, Nebraska	28.64	727.4	29.78	756.4	73.5	23.1	78	s.	7	3.1		7 cs	0	s.		inap.	inap.	fair	A. Pollak.
Oswego, New York	29.68	753.9	30.00	762.0	58.3	14.6	85	se.	8	3.6		3 c	0	w.		0	0	clear	S. W. Beall.
Palestine, Texas	29.48	748.8	30.02	762.5	73.0	22.8	100	s.	10	4.5			10n; fg			0.23	5.8	light rain	L. M. Pindell.
Pensacola, Florida	30.01	762.2	30.04	763.0	76.2	24.6	82	nw.	4	1.8		2 cs	0	w.		0.01	0.3	clear	M. McGauran.
Philadelphia, Pa	29.96	761.0	30.06	763.5	73.5	23.1	65	ne.	7	3.1		0	hz.			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.98	456.7	29.77	756.1	33	0.6	78	calm	0	0		0	hz.			0.13	3.3	clear	L. M. Dey.
Pioche, Nevada	24.06	611.1	29.76	755.9	56.5	13.6	77	n.	1	0.4		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.26	743.2	30.05	763.3	66.0	18.9	90	calm	0	0		0	0			0	0	clear	J. B. Turton.
Poplar River, Montana	27.72	704.1						nw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.06	763.5	30.07	763.8	79.1	26.2	91	sw.	1	0.4		0	8 s		sw.	0	0	cloudy	M. Hermann.
Port Huron, Michigan	29.26	743.2	29.92	760.0	65.5	18.6	90	s.	6	2.7		3 c	7 s		w.	0	0	cloudy	W. O. Bailey.
Portland, Maine	30.03	762.7	30.08	764.0	61.0	16.1	72	nw.	4	1.8		5 ck	0	nw.		0	0	fair	W. W. Eichelberger.
Portland, Oregon	29.86	758.4	29.93	760.2	58.6	14.8	87	nw.	9	4.0			10 s		nw.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					81	27.2	82	nw.	7	3.1		0	hz.			0.07	1.8	clear	F. S. Coburn.
Prescott, Arizona	24.79	629.7	29.77	756.1	61	16.1	90	ne.	2	0.9		0	8 s		s.	0.11	2.8	cloudy	J. McN. Wright.
Provincetown, Mass	30.04	763.0	30.07	763.8	71	21.7	62	se.	8	3.6		0	0			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	29.95	760.7	29.96	761.0	78.5	25.8	89	ne.	8	3.6		8 c	0			inap.	inap.	cloudy	W. J. Evans.
Red Bluff, California	29.46	748.3	29.82	757.4	67.7	19.8	48	s.	2	0.9		0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.75	755.6	29.99	761.7	78	25.6	88	se.	6	2.7		6 ck	0	s.		0	0	fair	H. S. Miles.
Rochester, New York	29.33	745.0	29.98	761.5	64	17.8	90	sw.	8	3.6		2 c; hz	hz.			0	0	dense haze	E. W. McGann.
Roseburg, Oregon	29.35	745.5	29.89	759.2	57	13.9	80	w.	1	0.4		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.74	755.4	29.81	757.2	59.1	15.1	75	s.	10	4.5		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.38	746.2	29.96	761.0	70.5	21.4	92	s.	6	2.7		2 c	4 s		sw.	0	0	fair	J. H. Webber.
St. Paul, Minnesota	28.85	732.8	29.60	754.1	67.0	19.4	100	s.	2	0.9			fg.			0.01	0.3	dense fog	P. F. Lyons.
St. Vincent, Minnesota	28.73	729.7	29.58	751.3	56	13.3	93	sw.	6	2.7			10 s		sw.	0.10	2.5	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.57	649.5	29.76	755.9	62	16.7	39	se.	2	0.9		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.27	743.4	29.96	761.0	74.0	23.3	90	se.	6	2.7			10 s		se.	0.02	0.5	cloudy	T. J. Kenan.
San Diego, California	29.82	757.4	29.89	759.2	67.3	19.6	77	sw.	4	1.8			fg.		sw.	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.29	744.0	29.95	760.7	68.5	20.3	73	sw.	15	6.7		5 c	0	s.		0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.04	763.0	30.07	763.8	72.0	22.2	71	ne.	10	4.5		2 c	0	w.		0	0	clear	B. A. Blundon.
San Francisco, California	29.83	757.7	29.90	759.4	55	12.8	90	sw.	7	3.1			fg		sw.	0	0	dense fog	N. Geron.
Santa Fé, New Mexico	23.23	590.0	29.72	754.9	55	12.8	72	ne.	6	2.7		4 cs	0			0	0	fair	H. U. Jones.
Savannah, Georgia	29.94	760.5	30.03	762.7	76	24.4	90	n.	4	1.8			10 s		n.	0.06	1.5	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.38	670.0	29.91	759.7	56	13.3	69	calm	0	0		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.80	756.9	30.03	762.7	74	23.3	90	se.	3	1.3		8 k	0			0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.70	729.0	29.88	758.9	73.8	23.2	82	s.	8	3.6			10 s		s.	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.29	617.0	29.75	755.6	58	14.4	67	nw.	2	0.9		0	8 s		calm	0.02	0.5	cloudy	J. B. Wallace.
Sitka, Alaska	29.75	755.6	29.81	757.2	49.5	9.7	89	e.	2	0.9			10 n		e.	0.31	7.9	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.50	749.3	29.96	761.0	70.8	21.6	84	e.	4	1.8		6 cs	0	e.		0	0	fair	J. B. Campbell.
Smithville, North Carolina	29.99	761.7	30.03	762.7	78	25.6	90	n.	3	1.3		6 cs	1 k		e.	inap.	inap.	fair	O. Parker.
Spokane Falls, Wash. Ter.	29.91	759.7	29.91	759.7	57	13.9	83	n.	2	0.9		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.28	743.7	29.94	760.5	68.5	20.3	81	s.	8	3.6		1 ck	2 s	w.	w.	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.96	761.0	30.09	764.3	60.0	15.6	70	n.	3	1.3		2 ck	hz.	nw.		0	0	clear	T. S. Outram.
Springfield, Mo	28.55	725.2	29.94	760.5	67.5	19.7	78	s.	9	4.0		9 c	0	s.		0	0	cloudy	J. B. Marbury.
Starkville, Miss	29.58	751.3	30.05	763.3	79	26.1	88	sw.	3	1.3		2 cs	0			0.50	12.7	clear	M. J. Wright, jr.
Stevenson, Fort, Dakota	27.92	709.2	29.70	754.4	55	12.8	86	n.	6	2.7		0	3 ks			0	0	clear	W. Burrows.
Stockton, Fort, Texas	26.89	683.0	29.83	757.7	67.0	19.4	78	s.	4	1.8		0	0			0	0	clear	J. O'Dowd.
Thomas Camp	27.17	690.1	29.79	759.7	69.5	20.8	77	w.			1	2 cs	4 k	sw.	sw.	0	0	fair	
Thatcher's Island, Mass	30.02	762.5	30.07	763.8	62.0	16.7	68	e.	4	1.8		0	hz.			0	0	clear	G. Liebmann.
Toledo, Ohio	29.27	743.4	29.94	760.5	69.5	20.8	72	s.	5	2.2		6 c	1 ks; sk	w.		0	0	fair	A. Buell.
Tucson, Arizona	27.53	699.2	29.87	758.7	70	21.1	100	calm	0	0			10 n			3.40	86.4	thnd'r storm	J. L. Whiteside.
Umatilla, Oregon	29.54	750.3	29.90	759.4	60	15.6	70	sw.	2	0.9		0	0			0	0	clear	J. Daly.
Uvalde, Texas	28.98	736.1	29.92	760.0	72	22.2	97	se.	4	1.8		10 cs	0	s.		0.01	0.3	cloudy	E. C. Imlay.
Verde, Fort, Arizona					74.1	23.4	74	s.			1		10 s		s.	0.01	0.3	cloudy	D. Brooks.
Vicksburg, Mississippi	29.82	757.4	30.06	763.5	73	22.8	90	s.	2	0.9		2 ck	3 s			0	0	fair	James Kenealy.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.44	620.8	29.78	756.4	53.4	11.9	65	nw.	5	2.2		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	29.97	761.2	30.08	764.0	72.4	22.4	82	calm	0	0		0	hz.			0	0	clear	F. M. M. Beall.
West Las Animas, Colorado	25.93	658.6	29.68	753.9	59.9	15.5	52	sw.	4	1.8		1 cs	0			0	0	clear	F. H. Brandenburg
Williamsport, Pa	29.46	748.3	30.04	763.0	65.5	18.6	82	calm	0	0		0	fg.			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	29.99	761.7	30.04	763.0	78	25.6	88	ne.	1	0.4			10 s			0.59	15.0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.55	649.0	29.78	756.4	55	12.8	37	sw.	8	3.6		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.51	724.1	29.78	756.4	61	16.1	78	n.	1	0.4		0	fg.			0	0	clear	J. H. Attfeld.
Yuma, Arizona	29.61	752.1	29.75	755.6	80.6	27.0	66	ne.	3	1.3		1 ck	5 s	se.	ne.	0	0	fair	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.08	560.8			50.0	10.0	81	calm	0	0		0	4 ks; s		n.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.06	763.5	30.07	763.8	81	27.2	95	e.				0	5 ks			0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.88	758.9	29.91	759.7	77	25.0	86	calm	0	0		0	8 ks		calm	0	0	cloudy	J. I. Plume.
Havana, Cuba†	29.95	760.7	30.01	762.2	79	26.1	88	calm	0	0		10 c	8 ks		n.	1.39	35.3	clearing	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	79.0	26.1	78	n.	1	0.4		2 c	0			0	0	fair	Robert Johnston.
Magua, San Domingo, W. I					74	23.3		calm			0	2 ks	0			0	0		S. M. Pike.
Navassa, W. I	29.90	759.4	29.98	761.5	81	27.2	78	e.	4	1.8		3 ck	3 ks	s; e.	e.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.08	764.0	30.08	764.0	78	25.6	86	se.			2	4 c	0			0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbn	29.44	747.8	30.00	762.0	77	25.0	89	n.			1		10 ks		n.	0.29	7.4	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							99	ne.			2	1 cs	1 ks	se.	ne.	0.83	21.1	fair	Earl Flint.
St. Paul, Kodiak Id., Alas*†	29.93	760.2	29.99	761.7	46	7.8	83	calm			0	0	3 k			0	0	clear	W. J. Fisher.
St. Thomas, W. I.	29.98	761.5	30.11	764.8	82	27.8	74	e.			0	0	2 k		e.	0.01	0.3	clear	Aug. Walloe.
York Factory, B. A.	29.67	753.0	29.73	755.1	40.0	7.8	92	ne.	14	6.3		3 k	2 s	ne.	ne.	0	0	fair	Fortesque & Weed.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, N. 26° 15′ W. 35° 47′	30.23	767.8	79.5	26.4	76	ene.			4–5		4							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.81	757.2	82	27.8	78	wnw.			3		5	wnw.				4	wnw.	d. clouds.
H. M. S. Amethyst, S. 23° 03′, W. 43° 06′	30.02	762.5	71	21.7	83	ne.			2		1					1	se.	blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	30.01	762.2	77	25.0		nne.			4		7	nne.						d. clouds.
H. M. S. Arab, Jask, Persia	29.52	749.8	89	31.7	88	s.			2		3							misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.33	770.4	59.5	15.3		nw.			1–4		3							showery.
H. M. S. Cleopatra, N. 43° 30′ E. 137° 00′	29.75	755.6	69	20.6	100	calm			0		10							overcast.
H. M. S. Comus, Esquimalt, Vancouver Island	29.92	760.0	53	11.7	86	calm			0		3							d. clouds.
H. M. S. Dido, N. 17° 55′, W. 77° 00′	30.06	763.5	81	27.2		calm			0		0							blue sky.
H. M. Dock-Yard, Bermuda, W. I.	30.06	763.5	80	26.7	82	nw.			1–2		3	wnw.						d. clouds.
H. M. S. Flying Fish, N. 32° 44′, E. 129° 52′	29.80	756.9	83	28.3	95	s.			1–3		5							d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.06	763.5	58.5	14.7	94	se.			3		10							drizzling.
H. M. S. Griffon, N. 47° 35′, W. 57° 23′	29.89	759.2	60.5	15.8	77	w.			1		3							d. clouds.
H. M. S. Iron Duke, N. 43° 07′, E. 131° 55′	29.74	755.4	69	20.6	100	sse.			1		10							d. clouds.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.95	760.7	80.3	26.8	89	s.			2		0					3	s.	misty.
H. M. S. Liffey, Coquimbo, Chili	30.03	762.7	53	11.7		calm			0									d. clouds.
H. M. S. Magpie, N. 35° 07′, E. 128° 40′	29.80	756.9	80.5	26.9	81	ese.			2		4							misty.
H. M. S. Minotaur, Abonkir Bay, Egypt	29.91	759.7	79.5	26.4	78	nw.			4		3							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.94	760.5	64	17.8	78	nw.			1		0							blue sky.
H. M. S. Pegasus, N. 1° 17′, E. 104° 07′	29.90	759.4	83	28.3	83	ese.			1		5							d. clouds.
H. M. S. Sappho, Honolulu, Sandwich Island	30.05	763.3	75	23.9	90	calm			0		6							drizzling.
H. M. S. Swiftsure, S. 43° 45′, W. 76° 00′	30.32	770.1	44	6.7	92	ssw.			1		7	ssw.				4	ssw.	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.14	765.5	48	8.9	71	se.			5–6		10							squally.
H. M. S. Tenedos, N. 49° 27′ W. 56° 09′	29.77	756.1	61	16.1	66	sw.			1–2		2							d. clouds.
H. M. S. Triumph, Montevideo, Uruguay	30.13	765.3	48	8.9	71	ese.			4–5		7	ese.						d. clouds.
H. M. S. Woodlark, Muscat, Arabia	29.54	750.3	90.5	32.5	76	calm			0		0							blue sky.
PORTUGUESE NAVAL.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.12	765.1	77.0	25.0	88	nw.			1		4			2 h'r	2 h'r	1		showery.
Tamega, Macao, China	29.78	756.4	85.1	29.5	88	sw.					4		sw.	2 h'r	2 h'r			d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	30.00	762.0	76	24.4	86	ne.	4	1.8			5		ne.	0	0			fair.
Navy Yard, Portsmouth, N. H	30.11	764.8	58	14.4	76	n.	2	0.9			2		n.	0	0			clear.
Naval Hospital, Yokohama, Japan*	29.83	757.7	79.5	26.4	74	sw.			3		2		sw	0	0			clear.
Adams, Mare Island, Cal			57	13.9	87	sw.			3		10			0	0	sm'h		cloudy.
Alaska, S. 4° 47′ W. 117° 13′	29.98	761.5	72	22.2	90	ese.			2		0			0	0	sm'h		clear.
Alliance, Portsmouth, N. H	30.07	763.8	56	13.3	81	nnw.			1		2			0	0	sm'h		clear.
Ashuelot, Yokohama, Japan*	29.81	757.2	82	27.8	83	sw.			3		8		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.08	764.0	71	21.7	100	n.	4	1.8			0			0	0	sm'h		clear.
Colorado, New York, N. Y	30.05	763.3	72	22.2	76	calm	0	0			2		w.	0	0			hazy.
Constellation, N. 38° 57′, W. 72° 38′*	30.08	764.0	76	24.4	91	wnw.			2		0					sm'h		clear.
Enterprise, Portsmouth, N. H	30.07	763.8	57	13.9	87	nw.			1		0							clear.
Essex, Coquimbo, Chili	30.09	764.3	53	11.7	86	se.			1		5?		se.			sm'h	se.	clear ?
Franklin, Norfolk, Va	30.08	764.0	74	23.3	90	se.	2.4	1.1			5		ssw.	0	0			fair.
Galena, N. 18° 32′, W. 25° 17′	30.02	762.5	78	25.6	95	se.			4		5		se.			mod.	ne.	fair.
Independence, Navy Yard, Mare Island, Cal	29.91	759.7	56	13.3	100	sw.			4		10			0	0			cloudy.
Iroquois, N. 22° 11′, W. 109° 24′	29.87	758.7	83	28.3	79	ese.			3		2		se.	0	0	h'vy	sse.	fair.
Kearsarge, Norfolk, Va	30.08	764.0	73	22.8	100	nne.			2		10		calm					misty.
Lackawanna, Callao, Peru*	30.01	762.2	61	16.1	88	se.			1		10							cloudy.
Lancaster, Villafranca, France*	29.98	761.5	80	26.7	100	e.			1		5		e.					fair.
Marion, S. 34° 54′, W. 56° 13′	30.09	764.3	48	8.9	92	ese.			5		10		se.	0	0	mod.	se.	cloudy.
Michigan, Chicago, Illinois	29.85	758.2	68	20.0	84	sw.			2		8		sw.					cloudy.
Minnesota, off New York, N. Y	30.10	764.5	73	22.8	95	ne.	3	1.3			2							hazy.
Monocacy, N. 37° 27′, E. 126° 33′ *	29.71	754.6	82	27.8	87	nne.			1		5		s.					fair.
New Hampshire, Newport, R. I	30.08	764.0	66	18.9	79	sse.			1		5?					sm'h		clear.?
Nipsic, Villafranca, France*	29.98	761.5	79	26.1	82	e.			2		10					sm'h		cloudy.
Onward, Callao, Peru	30.15	765.8	58	14.4	100	sse.			3		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.91	759.7	79	26.1	91	sw.			1		8		sw.					fair.
Passaic, Washington, D. C	30.08	764.0	72	22.2	95	sw.			1		2		sw.					fair.
Pensacola, N. 6° 15′, W. 79° 53′*	29.87	758.7	80	26.7	78	s.			0–1		2		s.	h'vy	h'vy	sm'h		fair.
Portsmouth, N. 36° 41′, W. 93° 10′*	30.02	762.5	72	22.2	80	w.			2							sm'h	w.	clear.
Powhatan, Norfolk, Va	30.07	763.8	73	22.8	95	calm			0									foggy.
Quinnebaug, Alexandria, Egypt*	29.90	759.4	80	26.7	78	nw.			4		5		nw.			sm'h		fair.
Ranger, Mare Island, Cal	29.93	760.2	60	15.6	65	wnw.			3		10			0	0			overcast.
Richmond, Yokohama, Japan*	29.83	757.7	81	27.2	83	sw.			3		5		sw.	0	0			fair.
Saratoga, N. 39° 10′, E. 1° 13′	29.96	761.0	80	26.7	78	sw.			2		0			0	0	sm'h		fair.
St. Louis, League Island, Pa	30.24	768.1	73	22.8	95	ne.			2		0			0	0			clear.
Swatara, Hong Kong*	29.57	751.1	82	27.8	87	s.			1		0					sm'h		clear.
Tennessee, Portsmouth, N. H	30.13	765.3	60	15.6	76	calm	0	0			2			0	0			clear.
Wabash, Boston, Mass	30.06	763.5	62	16.7	72	n.	2	0.9			0							clear.
Wachusetts, Fort Wrangle, Alaska			48	8.9	100	w.			1		10		calm			sm'h		cloudy.
Wyoming, Port Royal, S. C*	30.01	762.2	77	25.0	86	n.	6	2.7			8		n.	0.04	1.0			cloudy.
Yantic, Portsmouth, N. H	30.08	764.0	59	15.0	70	w.			1		2							clear.
MERCHANT MARINE.																		
ALLAN LINE.																		
S. S. Grecian, N. 36° 39′ E. 0° 08′*	30.06	763.5	88	31.1		w.			3		0			0	0	sm'h		clear.
S. S. Polynesian, N. 53° 30′ W. 3° 31′*	29.57	751.1	68	20.0		sw.			3		8		ssw.	9 h'r	9 h'r	sm'h	sw.	cloudy.
S. S. Scandinavian, N. 42° 28′, W. 66° 51′	29.81	757.2	58	14.4		nne.			1		0			0	0	light	sse.	blue sky.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Indiana, Philadelphia, Pa †	30.17	766.3	83	28.3	95	w.			2		2		w.					fine.
S. S. Lord Clive, N. 39° 16′ W. 69° 50′ *†	30.03	762.7				sw.			1		0			0	0			fine.
S. S. Lord Gough, N. 50° 21′, W. 35° 32′	30.10	764.5	60	15.6		sw.			4		10		sw.	0	0	long	nw.	cloudy.
S. S. Ohio, Philadelphia, Pa.†	29.02	737.1	74	23.3	90	e.			2		5		e.					cloudy.
AMSTERDAM LINE.																		
S. S. Jason, N. 47° 41′, W. 25° 42′*	30.17	766.3	64.4	18		sw.			5		6 n					4	sw.	gloomy.
ANCHOR LINE.																		
S. S. Bolivia, N. 41° 44′, W. 63° 42′*†	30.04	763.0	64	17.8		wsw.			2		0			0	0	sm'h		clear.
S. S. Dorian, New York, N. Y.*	29.90	759.4																
S. S. Ethiopia, N. 53° 54′ W. 18° 49′	29.52	749.8	55	12.8	100	nw.			6		8		nw.	5 h'r	5 h'r	high	nw.	showery.
ATLAS LINE.																		
S. S. Ailsa, N. 13° 51′, W. 77° 25′ †	29.99	761.7	80	26.7	91	ene.			5		2		ene.	0	0	long	ene.	fair.
S. S. Alene, Savanilla, U. S. C.†	29.87	758.7																
S. S. Alpin, N. 12° 40′, W. 70° 38′	30.06	762.0				ene.			2		2		e.	0	0		e.	
S. S. Antillas, Arroyo, Porto Rico, W. I. †	29.95	760.7	88	31.1		calm			0									clear.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 42° 24′ E. 48° 56′	30.32	770.1	46	7.8	92	nne.			4		10							overcast.
S. Baroda, N. 8° 26′, W. 25° 40′	30.08	764.0	75.5	24.2	90	wsw.			2		10							overcast.
Bk. Caldew, S. 36° 26′, E. 13° 48′	30.11	764.8	59.8	15.4	88	w.			7		9							d. clouds.
S. S. Cipero, N. 38° 06′, W. 35° 30′	30.43	772.9	77.0	25.0	69	s.			2		3							d. clouds.
Bk. Commewyne, N. 49° 30′, W. 22° 52′	29.85	758.2	61	16.1	77	nw.			6		7							d. clouds.
S. S. City of Agra, S. 40° 56′, E. 20° 50′	29.62	752.3	53.5	11.9	86	w.			7		10							d. clouds.
S. S. Gordon Castle, N. 41° 24′, W. 54° 22′	30.05	763.3	78	25.6	86	n.			2–3		5							d. clouds.
S. S. Humboldt, S. 34° 37′, W. 58° 04′	30.13	765.3	48.7	9.3	93	se.			5		10							overcast.
May Hulse, N. 41° 00′, W. 38° 00′	30.37	771.4	76	24.4	72	sw.			2		3							blue sky.
S. S. Minho, S. 17° 05′, W. 38° 26′	30.20	767.1	75.4	24.2	84	sse.			2		3							d. clouds.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From	From.	Inch.	Mill.			
BRITISH METEOROLOGICAL OFFICE.—Continued.																		
S. Oamaru, N. 14° 00′, W. 25° 20′	30.04	763.0	77.3	25.2	86	w.			2-3		9							d. clouds.
S. S. Rosetta, N. 6° 01′, E. 91° 41′	29.85	758.2	79.5	26.4	87	sw.			4		10							raining.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, Guaymas, Mexico*†	29.92	760.0	86	30.0	75	calm			0		8							fair.
CROMWELL LINE.																		
S. S. Hudson, N. 36° 20′, W. 74° 28′ †	30.14	765.5	78	25.6		ene.			2		0			0	0			clear.
CUNARD LINE.																		
S. S. Bothnia, N. 45° 31′, W. 41° 37′	30.17	766.3	74	23.3	90	wsw.			3		7		sw.	0	0		sw.	cloudy.
S. S. Gallia, off Fire Island, N. Y	30.05	763.3	72	22.2	81	e.			2					0	0			clear.
S. S. Marathon, Malta, Mediterranean	30.34	770.6	75	23.9		ene.			1		0			0	0	sm'h	ene.	clear.
S. S. Scythia, Liverpool, Eng	29.19	741.4	70	21.1	90	w.			2		9		w.	light	light			raining.
DONALDSON LINE.																		
S. S. Colina, N. 51° 53′, W. 23° 50′†	30.00	762.0				nnw.			7		8		n.			r'gh	nnw.	fair.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N 41° 22′, W. 64° 18′†	29.87	758.7	68.0	20		n.			3	1 c		n.		0	0	sm'h	n.	clear.
S. S. Ville de Marseilles, N. 40° 30′, W. 67° 07′*†	29.95	760.7	64	17.8		w.			3		fg			0	0			foggy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Cimbria, N. 45° 23′ W. 45° 32′	30.00	762.0	66	18.9		sw			5		10		sw.	3 h'r	3 h'r	mod.	sw.	misty.
S. S. Gellert, N. 49° 58′, W. 17° 42′			59	15.0		wsw.			5		10		wsw.	0	0	long	wsw.	foggy.
S. S. Herder, N. 40° 32′, W. 71° 13′*	29.85	758.2	80	26.7		se.			2		1		w.	0	0	mod.	ese.	clear.
S. S. Silesia, N. 56° 39′, E. 2° 49′	29.75	755.6	63.5	17.5		wsw.			4		1		se.	0	0	3	wsw.	fair.
S. S. Vandalia, N. 40° 44′. W. 63° 24′*	30.06	763.5	67.1	19.5		ene.			4		1			0	0	sm'h	ne.	clear.
S. S. Westphalia, N. 47° 17′, W. 50° 41′	29.83	757.7	62	16.7	88	ssw.			3		10			0	0	mod.	s.	cloudy.
INMAN LINE.																		
S. S. City of Berlin, N. 50° —′, W. 32° —′	30.18	766.6				n.			1		10		nw.	4 h'r	4 h'r	light	wnw.	fine.
LAMPERT AND HOLT'S LINE.																		
S. S. Archimedes, N. 44° 10′, W. 34° 48′†	30.33	770.4				wsw.			2		4		calm	0	0	sm'h		fine.
S. S. Hevelius, S. 34° 40′ W. 52° 30′*†	30.16	766.1	53	11.7		ese.			7		7?		wsw.	0	0	long	se.	clear?
LEYLAND LINE.																		
S. S. Bulgarian, N. 51° 11′, W. 19° 44′*	29.81	757.2				wnw.			6		9		nw.	9 h'r	9 h'r	mod.	nw.	cloudy.
MALLORY LINE.																		
S. S. City of San Antonio, Matanzas, Cuba*†	30.12	765.0				calm			0		0			1 h'r	1 h'r			fair.
S. S. Colorado, N. 34° 17′, W 75° 50′†	30.05	763.3	82	27.8		ne.			2		3		ne.	0	0	small	ne.	clear.
S. S. San Marcos, N. 34° 49′ W 75° 47′	30.06	763.5				se.												heavy rain.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Marseilles, France*†	29.97	761.2	80	26.7	78	se.			2		10		se.	½ h'r	½ h'r			covered.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 47° 24′, W. 36° 09′†	30.25	768.3	67	19.4	95	sw.			4-5		5					sm'h	w.	fine.
S. S. Hermod, N. 40° 25′, W. 60° 49′†	30.17	766.3	75.2	24		n.			3		3		nw.	0	0	mod.	se.	fair.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, S. 0° 53′ W. 43° —′†	29.95	760.7				ese.			4		4		ese.	0	0	h'vy	ese.	
MORGAN LINE.																		
S. S. Chalmette, Algiers, Louisiana†	30.07	763.8	81	27.2		wsw.			1		10			0	0			cloudy.
S. S. New York, N. 35° 10′, W. 74°. 40′†	30.20	767.1	82.0	27.8		nne.			5		8?		ne.			sm'h		clear?
NATIONAL LINE.																		
S. S. Canada, N 48° 33′ W. 24° 56′ †	30.06	763.5				nw.			6		8		wnw.	4 h'r	4 h'r	r'gh	wnw.	
S. S. Denmark, N. 49° 10′, W. 17° 00′	29.72	754.9	64	17.8		wsw.			5		8		w.	2 h'r	2 h'r	mod.	nnw.	cloudy.
S. S. England, N. 46° 49′, W. 35° 27′	30.23	767.8				w.			4		8		w.	0	0	mod.	w.	cloudy.
S. S. Erin, Liverpool, Eng	29.70	754.4	69	20.6		s.			4		8		s.	2 h'r	2 h'r			showery.
S. S. Helvetia, N. 40° 41′, W. 64° 03′	30.04	763.0	67	19.4		wnw.			1				nw.	0	0	sm'h		fine.
S. S. The Queen, N 41° 43′ W 45° 25′	30.10	764.5	75	23.9		sw.			6		2		calm	2 h'r	2 h'r	mod.	sw.	clear.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York N. Y†	30.08	764.0	71	21.7	80	nne.			3									clear.
S. S. City of Puebla, N. 24° 19′, W. 81° 06′†	29.93	760.2	83	28.3		sw.			1		8		sw.			light	sw.	squally.
S. S. City of Washington, N. 31° 40′ W. 79° 00′*†	30.15	765.8	82	27.8		ne.			4		5		ne.	0	0	mod.	e.	fine.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N 49° 47′ W. 60 28′*	29.88	758.9	67	19.4		sse.			3-4								wsw.	rainy.
S. S. Lone Star, N. 39° 32′ W. 74° 10′*†	30.08	764.0	72	22.2		calm			0							sm'h		hazy.
NORTH GERMAN LLOYD.																		
S. S. America, N. 49° 16′, W. 13° 36′*	29.74	755.4	60.0	18.9	81	w.			4		7		wsw.	5 h'r	5 h'r	r'gh	w.	cloudy.
S. S. Graf Bismark, N. 12° 25′, W. 25° 06′	30.05	763.3	79.7	26.5		wsw.			3		2		wsw.	0	0	mod.	sw.	clear.
S. S. Hohenslaufen, N. 41° 27′, W. 48° 17′	30.06	763.5	78.8	26.0		s.			5		8		s.	3½ h'r	3½ h'r	5	s.	cloudy
S. S. Koln, N 41° 57′, W. 60° 49′*	30.00	762.0	76.0	24.4	60	sw.			3		8		sw.			mod.	s.	cloudy.
S. S. Leipzig, N. 40° 17′, W. 59° 36′	30.03	762.7	81.0	27.2	87	sw.			1		5?			0	0	mod.	ese.	clear?
S. S. Main, N. 50° 50′, W. 27° 51′	30.00	762.0				w.			6		8		w.	0	0	high	w.	cloudy.
S. S. Neckar, N. 49° 30′, W. 16° 01′	29.74	755.4	61.0	16.1	94	w.			4		5?		w.	sh'rs	sh'rs	mod.	w.	clear?
S. S. Ohio, Baltimore, Md	30.08	764.0				n.			1					0	0			fair.
S. S. Salier, N. 41° 51′, W. 64° 18′	30.08	764.0	56.3	13.5		nnw.			4		0			0	0	sm'h	nw.	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 41° 00′, W. 129° 08′†	30.08	764.0	60	15.6	88	nw.			5		5		nw.	0	0	mod.	nnw.	clear.
S. S. Belgic, N. 32° 58′, E. 135° 00′†	30.10	764.5	81	27.2	74	s.			4		2		s.	0	0	mod.	sw.	clear.
S. S. Coptic, N. 42° 16′, E. 155° 05′	29.96	761.0	71	21.7	95	ene.			5		10		ene.	0	0	3	e.	overcast.
S. S. Gaelic, N. 24° 05′, E. 118° 16′†	29.88	758.9	80	26.7	82	sw.			4		5?		sw.			sm'h		clear?
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 33° 22′, W. 78° 14†	30.12	765.0				nw.			1		8		ssw.	0	0	sm'h		squally.
S. S. Seminole, N. 40° 48′, W. 72° 10′†	30.12	765.0	72	22.2	85	ne.			4		0			0	0	sm'h	se.	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, San Francisco, Cal †	29.90	759.4	55	12.8	93	calm			0		0							hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal†	29.84	757.9	54	12.2	93	wnw.			2		10		nw.					cloudy.
S. S. City of Chester, San Pedro, Cal*†	29.88	758.9	63	17.2	?	w.			1		10		nw.			sm'h	nw.	light fog.
S. S. Idaho, San Francisco, Cal †	29.90	759.4	55	12.8	87	nw.			2		10		w.	0	0	sm'h		cloudy.
S. S. State of California, N. 43° 00′, W. 124° 40′†	29.95	760.7	57	13.9	91	nnw.			4		5		nw.			short	nw.	cloudy.
S. S. Victoria, N. 41° 48′ W. 124° 43′ †	29.86	758.5	51	10.6	100	se.			2		8			0	0	mod.	nw.	overcast.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 34° 20′, E. 173° 58′	30.05	763.3	58	14.4	88	sse.			3		5		e.	0	0	sm'h		clear.
S. S. City of New York, Sydney, N. S. W†	30.31	769.9	48	8.9	78	sw.			1		8		sw.	0	0			cloudy.
S. S. City of Pekin, N. 44° 42′ E. 164° 05′†	30.14	765.5	59	15.0	100	s.			4		10		s.	mod.	mod	small	s.	rainy.
S. S. City of Rio de Janeiro, N. 28° 13′, W. 115° 30′*†	30.13	765.3	68	20.0	84	nnw.			2		8		nw.	0	0	light	nw.	fine.
S. S. City of Tokio, N. 26° 44′ E. 123° 10′ †	29.77	759.1	83	28.3	87	sw.			3		2		n.	0	0	small	sw.	fine.
S. S. Colima, N 15° 28′, W. 96° 54′†	29.95	760.7	78	25.6	82	ese.			6		9		se.	0.47	11.9	h'vy	con.	threatening.
S. S. Colon, Aspinwall, Panama†	29.99	761.7	78	25.6		calm			0		9		nw.	1 h'r	1 h'r	sm'h		cloudy.
S. S. Costa Rica, N. 16° 45′, W. 99° 50′ *	29.85	758.2	78	25.6	91	e.			3		8		e.	h'vy	h'vy	light	ese.	fair.
S. S. Grenada, N. 11° 50′, W. 87° 12′ †	29.94	760.5	80	26.7	74	ene.			2		2		e.	0 h'r	0 h'r	mod.	e.	clear.
S. S. Zealandia, S. 14° 15′, W. 170° 38′	30.00	762.0	81	27.2	91	e.			3		0					sm'h		clear.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, Trinidad, W. I.	30.05	763.3	80	26.7		calm			0		10			0	0	sm'h		overcast.
RED D LINE.																		
S. S. Valencia, La Guayra, Venezuela*†	30.19	766.8	83	28.3	79	e.			2		2		se.	0	0	sm'h	ne.	fine.
RED STAR LINE.																		
S. S. Belgenland, Philadelphia, Penn †	30.14	765.5	76	24.4	77	calm			0		0			0	0			fair.
S. S. Pennland, N. 42° 06′ W. 53° 42′	30.03	762.7				n			4		2		n.	0	0	sm'h	s.	fair.
S. S. Rhynland, N. 49° 40′, W. 9° 00′			68	20.0	60	w.			6		4		w.	2 h'r	2 h'r	chop	w.	squally.
S. S. Switzerland, N. 39° 53′, W. 54° 33′†	30.03	762.7				nw			4		8		nw.	0	0	long	e.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE—Continued.																		
S. S. Vaderland, N. 48° 05′, W. 24° 52′	29.89	759.2	63	17.2	78	nnw.			6		10		nnw.	0	0	r'gh	nw.	overcast.
S. S. Waesland, N. 49° 41′, W. 65° 17′	30.03	762.7	71	21.7	66	ne.			4		0			0	0	sm'h	ne.	clear.
ROTTERDAM LINE.																		
S. S. Edam N. 49° 25′, W. 9° 51′	29.72	754 9	66.0	18.9	92	w.			6		7		w.	10 h'r	10 h'r	high	w.	cloudy.
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, St. Ann's Bay, Jamaica	30.04	763.0	83	28.3		calm			0		2		ne.	0	0	gentle	e.	clear.
STATE LINE.																		
S. S. State of Florida, N. 42° 00′, W. 52° 36′	29.92	760.0	73	22.8		e.			2		9		sse.	10 h'r	10 h'r		se.	cloudy.
S. S. State of Indiana, N. 43° 15′, W. 60° 00′†	30.19	766.8	70	21.1		n.			3		2		n.	0	0	sm'h		clear.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N.Y.†	30.29	769.4	71.6	22.0		nne.			1		1		nne.	0	0			clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 40° 12′ W. 62° 49′	30.05	763.3	76	24.4										0	0			clear.
WHITE STAR LINE.																		
S. S. Adriatic, N. 46° 48′, W. 45° 45′*†	30.17	766.3	62.5	16.9	100	s.			3		10			6 h'r	6 h'r	mod.	sw.	raining.
S. S. Baltic, N. 51° 23′ W. 16° 18′	29.60	751.8	60	15.6	88	w.			4		9		w.	1 h'r	1 h'r	3	var.	d clouds.
S. S. Celtic, N. 40° 55′, W. 63° 38′†	30.06	763.5	74	23.3	95	n.			1		0			0	0	sm'h		fine.
S. S. Republic, Liverpool, Eng*†	29.92	760.0	70	21.1	100	w.			3		8		w.	sh'rs	shr's			d. clouds.
WINSOR LINE.																		
S. S. Catherine Whiting, Delaware Bay†	30.10	764.5	74	23.3		w.			1		0			0	0			
MISCELLANEOUS.																		
Bk. Adelaide, N. 32° 21′, W. 53° 14′*†	30.23	767.8	84	28.9		sse.			3		1		sse.	0	0	mod.	ene.	clear.
Bk. Alpha, N. 58° 32′, E. 10° 00′†	29.93	760.2	68	20.0		sse.			6		8		sw.	0	0	mod	se.	cloudy.
Sch. Anna A. Holton, N. 36° 26′ W. 74° 50′†	30.11	764.8	80	26.7		ese.			3		0			0	0	sm'h		
Bk. Anna Thorman, S. 28° 22′, E. 104° 33′	30.18	766.5	59.4	15.2	62	s.			4		4 k		s.	sh'rs	sh'rs	long	s.	fair.
S. S. Antonio Lopez, N. 31° 02′, W. 48° 14′*	30.21	767.3	79	26.1	82	ese.			4		3			0	0	mod.		clear.
Bk. Argonaut, N. 40° 39′, W. 68° 09′*†	30.11	764.8	65.7	18.7		e.			1		10		se.	0	0	sm'h	sw.	foggy.
Bk. Aureola, N. 11° 30′, W. 42° 20′*†	29.98	761.5	72	22.2		sw.			8		6		sw.	10 h'r	10 h'r	h'vy	sw.	fair.
Bk. B. F. Watson, N. 22° 34′, W. 37° 54′†	30.12	765.0	78	25.6		e.			4		7		e.	0	0	mod.	e.	squally.
Bk. Bergenseren. N. 43° 55′, W. 41° 50′†	30.13	765.2				ssw.			4		1		ssw.	0	0	3	ssw.	hazy.
Bk. Bremen, N. 52° 07′. W. 29° 20*†	30.20	767.1				nw.			6		7		nw.	2 h'r	2 h'r	cross		covered.
Bk. Cato, Malmö, Sweden*†	30.40	772.1				nw.			3									clear.
Bk. Celestina, N. 14° 20′ W. 25° 00′*†	29.96	761.0				w.			1		2		nw.	0	0	long	s;w.	
S. Cornelius, N. 49° 50′, W. 4° 11′*†	30.05	763.3	57 2	14.0		s.			5		10		wsw.	0	0	mod	wsw.	sprinkling.
S. Dora, S. 8° 30′ W. 28° 00′†	30.16	766.1	80.2	26.8		ese.			4–5		4 k		ese.			r'gh	se.	clear.
Schr. Edith R. Seward, N. 38° 26′, W. 76° 18′†	30.08	764.0	74	23.3		sw.			1		3		calm	0	0			fair.
S. E. J. Spicer, N. 40° 56′, W. 60° 40′*	29.97	761.2	78	25.6		nne.			3		5		ne.	12 h'r	12 h'r	mod.	se.	fair.
S Enoch Train, N. 49° 45′, W. 8° 00′†	30.00	762.0				sw.			4		5		sw.	sh'rs	sh'rs	sm'h		fine.
Bk. Essex, N. 11° 45′, E. 51° 25′*†	29.75	755.6	85	29.4		s.			5		0			0	0	hv'y	sse.	clear.
Bk. Franklin, N. 58° 08′, E. 3° 00′*†	30.04	763.0				se.			3		10			1 h'r	1 h'r	sm'h		clearing.
Bk. Freya, N. 38° 21′, W. 68° 55′			82	27.8		ne.			3		5		se.	0	0	sm'h		fair.
S. Glendon, N 35° 30′, W. 51° 50′†	30.11	764.8	84	28.9		s.			4		9		ssw.	0	0	sm'h		fair.
Bk. Godfrey, N. 32° 42′, W. 18° 14′	30.18	766.6	75.6	24.2	74	nne.			1–2		3		nne.	0	0	sm'h	nw.	clear.
S. Grecian, N. 12° 30′, E. 111° 30′*†	29.85	758.2	83	28.3		s.			5		0			0	0	sm'h		hazy.
Bk. Gronsvaer, N. 23° 20′, W. 37° 30′†	30.14	765.5				ese.			6		4		ese.	2 h'r	2 h'r	mod.	ese.	
Bk Hattie G. McFarland, Bath, Maine*†	30.05	763.3	66	18.9		sw.			1		3		w.	0	0			clear.
Schr. Hattie Weston, N. 26° 24′, W. 70° 40′*†	30.02	762.5	84	28.9		sse.			2		5		s.	½ h'r	½ h r	mod.	se.	fair.
Bk. Heinrich & Tonio, N. 46° 30′, W. 19° 22′*†	30.17	766.3	63.5	17.5		nw.			6		5		nw.	0	0	mod.	nw.	fair.
Schr. Henry Denison, N. 34° 45′ W. 74° 17†	30.08	764.0				calm			0		0					high	se.	
S. Ivy, S. 44° 44′ W. 99° 33′†	30.71	780.0	41	5.0		nne.			2		10			0	0	mod.	w.	cloudy.
S. Ismir, N. 1° 15′ E. 106° 55′†	29.88	758.9				sse.			2		5		sse.	2 h'r	2 h'r	sm'h		fine.
Schr. Jennie N. Huddell, N. 39° 40′, W. 74° 00′†	30.02	762.5	76	24.4	90	nw.			1		2		w.	mod.	mod.	short	sw.	clear.
Bk. Johanne, N. 40° 56′, W. 68° 07′*†	30.05	763.3	66	18.9		calm			0		0			0	0	sm'h	sw.	foggy.
Bg. John Wesley, Guanatamo, Cuba, W. I*†	29.89	759.2				nw.			2		2		se.	0	0			clear.
Bk. Joseph A. Ropes, S. 39° 22′, E. 18° 53′*†	29.87	758.7	63	17.2	72	w.			7		10		w.	3 h'r	3 h'r	hv'y	w.	cloudy.
Bkt. Josephine, Havana, Cuba, W. I.†	30.00	762.0	81	27.2	78	sw.			1		10			10 h'r	10 h'r			rainy.
S. S. Lamperts, N. 36° 24′, W. 4° 20′*	30.04	763.0	72.5	22.5	83	wsw.			6		0							blue sky.
Light House Tender, Laurel, Key West, Florida†	30.01	762.2	83	28.3		nnw.			3		10		nnw.	3 h'r	3 h'r			raining.
Bk. Liberia, N. 36° 04′, W. 70° 16′.*..	30.05	763.3	83	28.3	83	nw.			2		4			0	0			
Schr. Maggie Abbott, Port au Prince Hayti†	30.03	762.7												0	0			clear.
S. Minnie N. Gerow, N. 38° 27′, W. 13° 00′.†*	30.16	766.1				wnw.			5		8		w.			sm'h	nnw.	fair.
S. M. P. Grace, S. 29° 06′, W. 95° 25′*	30.22	767.6	57	13.9		se.			3				se.	0	0	sm'h	se.	clear.
Bk. National Eagle, N. 41° 12′, W 24° 30′†	30.24	768.1				nw.			3		2		nnw	0	0	mod.	nne.	fair.
S. S. Nebo, Gibralter, Mediteranean*†	29.98	761.5				calm			0		0			0	0			clear.
S. Oracle, N. 38° 48′, W. 57° 18′*	30.05	763.3	85	29.4	79	calm					2 k							clear.
S. Orealla, N. 14° 13′, W. 34° 20′*	29.95	760.7				e.			3		3		e.	0	0	long	s.	clear.
Bk. Rosebud, S. 31° 31′, E. 56° 00*†	30.45	773.4	60	15.6	100	se.			6		8		s.	0	0	sm'h		cloudy.
S. St. Francis, N. 35° 01′, W. 44° 15′†	30.24	768.1	78	25.6		se.			3		3		se.	0	0	long	ne.	fine.
Bk. Sunbeam, N. 39° 18′, W. 33° 37′†	30.47	773.9	76	24.4	81	calm			0		2		ne.	0	0	mod	ene.	clear.
S. S. Sunbeam, N. 50° 23′ W. 2° 27′	29.81	757.2	64	17.8	97	sse.			4		5		s.			sm'h		drizzling.
S. Sovereign of the sea, S. 47° 48′, W. 63° 31′*†	29.73	755.1	43	6.1	91	s.			6		5		ssw.	0	0	high	s.	overcast.
Bg. Teneriffe, N. 31° 20′, W. 78° 00′	29.90	759.4				ne.			2							sm'h		fine.
U. S. F. C. S. S. FishHawk, New Bedford, Mass†	30.29	769.4	72	22.2	85	e.			2		2		calm	0	0			clear.
Schr. Victor Ping, N. 28° 30′, W. 66° 25′*†	30.10	764.5				n.			1		6		e.			mod.	se.	cloudy.
Bk. Vincenzo Accame, N. 36° 50′, W. 54° 00′†	30.28	769.0	82.4	28.		w.			6									rainy.
Schr. Viola Reppard, N. 32° 34′, W. 79° 40′†	30.00	762.0	84	28.9		nne.			3		8		nne.	0	0	small	ne.	
Bg. Wauburn, N. 18° 30′, W. 75° 10′*†	30.00	762.0				e.			3		2		e.			sm'h	e.	½ covered.
Bk. Warden Law N. 58° 56′, W. 4° 45′*	29.66	753.4				ne.			3		10		nne.	1 h'r	1 h'r	sm'h	s.	hazy.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 15, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.10	764.4	83.1	28.4	55	se.			2		0			0	0	clear	Bouvier.
Algiers			30.04	763.0	84.6	29.2	40	n.			2		2			0.114	2.9	fair	Thève.
La Calle			30.04	763.1	92.8	33.8	75	nne.			1		0			0.031	0.8	fair	Fonfrède.
Tunis			30.04	763.0															Jacques.
Saida			30.13	765.3															Peres.
Tebessa			30.11	764.9	89.2	31.8	20	nnw.			3		4			0	0	cloudy	Rigaud.
Geriville					89.2	31.8	11	sw.			6		9			inap.	inap.	covered	Lonchamp.
Laghouat			30.16	766.1	101.8	38.8	37	sw.			3		4			inap.	inap.	cloudy	Abraham.
Biskra			30.13	765.3	100.8	38.2	21	se.			1		3			inap.	inap.	cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.02	762.5	30.11	764.8	48.2	9.0	75	n.	8	3.6			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.37	746.0	29.89	759.2	83.3	28.5	46	se.			1		3			0	0		Prof. Ivan Stozir.
Gracow, I. R Observatory	29.13	740.0	29.86	758.5	79.2	26.2	55	e.	8.7	3.9			2			0	0	P'tn'g th'd'r	Dr. Wierzbiski.
Eperies	29.07	738.3	29.89	759.3	81.9	27.7	46	calm			0	c8	3 s			0	0		Julius Mikolik.
Gratz	28.67	728.2	29.85	758.3	77.9	25.5	61	sw.			3		3			0.012	0.3		Andreas Rospini.
Hermannstadt	28.55	725.2	29.89	759.3	81.0	27.2	45	wsw.			1		1			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.57	725.7	29.86	758.5	68.7	20.4	91	se.			1		8			0.118	3.0	very cloudy	The Staff.
Lemberg	29.04	737.6	29.98	761.6	77.5	25.3	54	s.			2		2			0	0		Dr. T. Stanecki.
Pola	29.85	758.1	29.95	760.8	82.8	28.2	56	s			2		10			0	0		I. R. Hydrographic Office.
Szathmar	29.47	748.4	29.91	759.7	81.9	27.7	48	w.			1		2			0	0		Joseph Midlinszay, S. J.
Szegedin	29.58	751.2	29.84	757.8	83.5	28.6	47	s.			1		5			0	0		Karl Stancel.
Trieste																			Royal Academy.
Vienna	29.17	740.8	29.85	758.1	77.7	25.4	59	se.			2		9			0.035	0.9	thunder	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.48	748.8	29.58	751.3	58.5	14.7	93	se.	14	6.3			10			0.180	4.6	overcast	W. Boswell
Armagh, Observatory	29.31	744.5	29.53	750.0	60.9	16.1	66	sw.	10	4.5			9					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.59	751.6	52.4	11.3	91	w.	23	10.3			9					raining	John Hartnup.
Bolton, Sharples	29.05	737.9	29.58	751.3	55.8	13.2	95	w.	18	8.0			10					hailing	Thomas Mackereth.
Bradford, Yorkshire	29.14	740.1	29.54	750.3	62.7	17.1	81	e.			2		7			0.17	4.3	raining	J. McLandsborough.
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	77.0	25.0	86	se.			2		8					overcast	Corpl. J. Surgenor, A. H. C.
Cardington			29.61	752.1	68.6	20.3	79	w.			3.0		9					showery	John McLaren.
Chatham, School M. E.	29.60	751.8	29.72	754.9	62.8	17.1	85	s.			4		10					raining	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.61	752.1	29.83	757.7	61.1	16.2	65	w.			5		4					d. clouds	The Staff.
Fort Napier, Natal	27.90	708.6	30.12	765.0	70.4	21.3	43	e.			2		2					blue sky	Corpl. F. Milner, A. H. C.
Free Town, Sierra Leone	29.72	754.9	29.97	761.2	79.0	26.1	61	nw.			1		5						Sergt. John Robinson.
Gibraltar, Mediterranean	30.66	763.5	30.12	765.0	76.5	24.7	84	wsw.			5		0					blue sky	Corpl. F. Norris, A. H. C
Glasgow, Observatory	29.30	744.2	29.50	749.3	58.7	14.8	87	e.			1		10 n					raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.52	749.8	29.69	754.1	63.2	17.3	88	ssw.			4		10					raining	The Staff.
Guernsey	29.56	750.8	29.85	758.2	61	16.1	82	wsw.			4		9					squally	A. Collenette, F. M. S.
Kew, Observatory	29.04	752.8	29.68	753.9	68.5	20.3	66	sw.	24	10.7			8					showery	The Staff.
Leicester, Museum	29.32	744.7	29.57	751.1	65.1	18.4	73	sw.			2		7					raining	J. C. Smith.
Malta, Mediterranean	30.04	763.0	30.11	764.8	81.2	27.3	85	ne.			2		0					blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.10	764.5	30.15	765.8	83.5	28.6	81	sw.			1		8			blank	blank	overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.11	739.4	29.63	752.6	54.0	12.2	96	wsw.			2		10					overcast	Warren Middleton.
Oxford, Radcliffe Obs'y	29.43	747.5	29.66	753.4	60.1	15.6	87	sw.			4		10					drizzling	The Staff.
Plymouth	29.71	754.6	29.78	756.4	65.0	18.3	61	w.			3		4					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.54	750.3	60.9	16.1	88						4					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.80	758.4	29.92	760.0	88.8	31.6	44	ne.			2		2					d. clouds	W. H. Lyne.
Sheffield	29.31	744.5	29.58	751.3	58.9	14.9	97	sw.			3		10			0.18	4.6	threatening	W. F. Cooper.
Silloth Rectory	29.46	748.3	29.49	749.0	60.0	15.6	88	ssw.			2		10			0.035	0.9	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.60	751.8	54.9	12.7	87	w.	18	8.0			10					raining	I. New.
Stratfield Turgiss					57.2	14.0	90	s.			1		10					showery	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.83	757.7	29.84	757.9	64	17.8	78	w.			6		10					raining	W. Newcombe.
Valencia, Observatory	29.70	755.9	29.78	756.4	57.9	14.4	71	w.	31	13.9			8			blank	blank	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.92	760.0	29.96	761.0	59	15.0	91	se.	5	2.2			10 n		sw.	0.054	1.4	threatening	H. J. Cundall, C. E.
Chatham, N. B*	29.90	759.4	29.95	760.7	58	14.4	100	se.	1	0.4			10 s		se.	0.34	8.6	cloudy	G. A. Blair.
Father Point, Quebec*	29.94	760.5	29.97	761.2	51	10.6	93	calm	0	0			fg			0	0	dense fog	J. McWilliams.
Fort Garry, Manitoba*	29.03	737.3	29.83	757.7	58	14.4	99	n.	4	1.8			fg			0.17	4.3	foggy	James Stewart.
Halifax, N. S*	29.88	758.9	30.01	762.2	60	15.6	87	s.	6	2.7		0	8 k		nw.	0	0	cloudy	A. Allison.
Kingston, Ontario*	29.59	751.6	29.91	759.7	71	21.7	84	w.	5	2.2		3 c	0	w.		0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.71	754.6	29.91	759.7	61	16.1	96	ne.	6	2.7			10 s		ne.	inap.	inap.	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.18	741.2	29.84	757.9	68	20.0	93	se.	8	3.6		2 k	0			0.04	1.0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.26	743.2	29.93	760.2	65	18.3	100	sw.	4	1.8		4 ck	0	w.		0.01	0.3	fair	H. Morgan.
Port Stanley, Ontario	29.30	744.2	29.91	759.7	69	20.6	87	se.	2	0.9		2 c	2 k	nw.	nw.	0.33	8.4	fair	M. Payne.
Quebec, Quebec*	29.04	752.8	29.96	761.0	58	14.4	96	ne.			5		8 ks		e.	1.23	31.2	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.42	747.3	29.86	758.4	65	18.3	93	w.	1	0.4			8 s		w.	0.31	7.9	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.17	740.9	29.85	758.2	70	21.1	90	s.	4	1.8		0	0			0	0	clear	
St. Andrews, N. B	29.84	757.9	29.89	759.2	63	17.2	89	w.	1	0.4		5 k	2 k	nw.		0	0	cloudy	
Sydney, C. B*	29.94	760.5	30.00	762.0	61	16.1	78	w.	11	4.9			10 s		w.	0	0	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.55	750.6	29.92	760.0	66	18.9	90	sw.	1	0.4		2 cs	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.92	760.0	29.99	761.7	57	13.9	96	sw.	9	4.0			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.55	725.2	29.97	761.2	65.0	18.3	94	w.			3	8 ck	0	w.		0.227	5.8	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.987	761.57	30.237	767.87	64	17.8	73	sw.				0	0			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.22	767.6	30.24	768.1	64	17.8	72	w.	6.6	3.0		0	1 s			0	0	hazy	C. Hansen.
Cape Town, C. G. H. Obs'y	30.23	767.8	30.26	768.6	60.0	15.6	84	w.	19	8.5		0	4			0.210	5.3		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.50	749.3	29.52	749.9	77.4	25.2	99	wsw.	9.4	4.2			10 n			1.122	28.5	raining	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.84	757.8	29.88	759.0	70.5	21.4	83	n.	7	3			2						Oversergent Fischer.
Fanöe	29.82	757.3	29.84	757.8	72.0	22.2	78	sw.			2		7						Overloerer Lauridsen
Godthaab, Greenland	29.69	754.2	29.74	755.3	38.7	3.7	95	calm			0		10			0	0	foggy	S. Kleinschmidt.
Ivigtut	29.65	753.1	29.67	753.6	46.6	8.1		calm			0		10					raining	
Stykkisholm, Iceland	29.89	759.1	29.93	760.2	46.4	8.0	72	ne.			2		8						A. O. Thorlacius.
Thorshavn	29.65	753.0	29.68	753.9	52.3	11.3	98	calm	0	0			10					foggy	Overloerer Bergh.
Vestervig	29.79	756.6	29.88	758.9	64.4	18.0	88	calm			0		9					thund'r st'm	Loearer Oesterbol.
French.																			
Agen, Normal School	29.47	748.5	30.08	764.0	63.7	17.6	100	s.			1		8		sw.			raining	M. Labroue, Director.
Alençon, Normal School	29.36	745.7	29.91	759.7	72.7	22.6	77	s.			1		kn	s.	s.	0	0		M. Nicot, Director.
Arras, Engineer School	29.61	752.1	29.86	758.4	70.0	21.1	53	sw.			6		k			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.91	759.7	29.99	761.7	82.4	28	51	n.			1		0			0.055	1.4	clear	M. Giraud, Director.
Bar-sur-Seine	29.39	746.6	29.93	760.2	71.2	21.8	59	sw.			1		10		w.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.62	752.3	29.87	758.7	73.2	22.9	58	sw.			3		8		sw.	0.106	2.7	very cloudy.	M. Frère Eugène Marie.
Besançon, Normal School	29.08	738.6	29.94	760.4	65.5	18.6	87	s.			1		10		nw.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.80	756.8	30.05	763.3	69.4	20.8	67	wsw.			1		8		wsw.	0.024	0.6	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.41	747.1	29.95	760.7	71.6	22	61	sw.							sw.	1.66	27.		M. Malet, Director.
Brest, Naval Observatory	29.71	754.7	29.95	760.8	68.7	20.4	55	w.			3		5		w.	0.189	4.8		M. de Kermaree, Dir.
Caen, Normal School	29.79	756.6	29.86	758.4	58.3	14.6	86	sw.			1		8		sw.	0.24	6.	very cloudy.	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.60	751.7	29.91	759.6	69.1	20.6	83	wsw.			1		8			0.094	2.4	very cloudy.	M. Jadot, Director.
Charleville, Normal School	29.38	746.2	29.87	758.8	70.2	21.2	78	w.			2		8			0	0	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.66	728.0	29.96	761.0	75.2	24.0	48	sw.			2	0	5 k		sw.	0.008	0.2	½ covered	M. Alluard, Director.
Cluny, Normal School	29.19	741.3	30.01	762.2	66.2	19	88	sw.					10		sw.	0.378	9.6		M. de Villemontée, Dir.
Commercy, Normal School	28.28	718.4	29.94	760.4	65.8	18.8	92	w			1		kns	w.	w.	0.020	0.5		Dr. Coulet, Director.
Gap, Normal School	27.45	697.2	29.92	760.0	67.6	19.8	74	n.			2	0	2 kn		ne.	0.075	1.9		M. Jeanglrard, Director.
Gréasque, du Rhone	28.87	733.3	29.94	760.5	79.2	26.2	49	nw.			2		2		nw.	0.374	9.5		M. Kina, Director.
Grenoble, Normal School	29.17	740.8	29.91	759.6	73.8	23.2	80	ne.			3		kn			0.008	0.2		M. Ablard, Director.
Lamballe, Normal School					64.4	18	44	w.			3		kn		w.	0.28	0.7		M. Ollitrault, Director.
Lescar, Normal School	29.52	749.9	30.08	764.1	64.4	18.0	89	w.			3		10			0.102	2.6	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.87	758.6	29.97	761.2	65.3	18.5	62	wnw.			3		10	se.	w.	0.217	5.5	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.98	736.1	30.00	762.1	70.2	21.2	61	se.			1	c	10 n	wsw.	w.	0.118	3.0	stormy	M. André, Director.
Mans, Normal School	29.63	752.6	29.93	760.2	70.0	21.1	68	sw.			1		10		sw.	0	0	covered	M. Piboen, Director.
Marseille, Observatory	29.73	755.2	29.99	761.8	79.5	26.4	64	wsw.			1		1		ne.	0	0		M. Stephan, Director.
Montlouis	24.98	634.5	29.82	757.5	62.6	17.0	61	w.	9.4	4.2				w.		0.071	1.8		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.84	758.0	29.97	761.2	85.3	29.6	56	wnw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.15	740.4	29.91	759.8	65.5	18.6	86	wsw.			2		10 n			0.012	0.3	covered	M. Hasse, Director
Nantes, Observatory	29.80	757.0	29.97	761.2	69.1	20.6	66	wsw.			2–3	0	9 kn; n		wnw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.92	760.0	30.02	762.6	77.7	25.4	54	se.	5.6	2.5			9		w.	0.118	3.0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.39	543.4			45.0	7.2		sw.			1		10		sw.	0.110	2.8	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.99	736.3	30.02	762.6	70.5	21.4	70	s.			1		5			0.39	10.	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.22	640.5			50.7	10.4	96	wsw.			4		8			0	0	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	29.99	761.7	30.02	762.5	70.9	21.6	88	wsw.			3		8		wsw.	0.04	1.	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.72	754.9	29.93	760.1	72.9	22.7	58	w.			3		5		e.	0.008	0.2	cloudy	M. Monillot, Director.
Rodez, Normal School	27.96	710.2	30.04	763.0	65.5	18.6	81	nw.			1		10		sw.	0.500	12.7	covered	M. Seger, Director.
Rouen, Normal School	29.82	757.4	29.87	758.6	72.7	22.6	64	sw.			1		5	sw.		0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.73	755.2	29.90	759.4	70.2	21.2	63	sw.			2		10		sw.	0.331	8.4		M. Renou, Director.
Toulouse, Observatory	29.39	746.6	30.12	765.0	77.0	25.0	56	w.			1		8	nw.		0.173	4.4	very cloudy	M. Baillaud, Director.
Tours	29.75	755.7	29.93	760.2	73.0	22.8	74	sw.			1		5	sw.	sw.	0.012	0.3	showery	M. de Tastes.
Versailles, Observatory	29.42	747.3	29.91	759.8	70.2	21.2	62	sw.			3					0.331	8.4		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.61	752.2	29.91	759.6	68.2	20.1	68	ssw.			1		10		sw.	0.390	9.9		M. Marié Davy, Director
German.																			
Ansbach	28.50	723.8	29.89	759.3	71.2	21.8	65	calm			0		7	sw.		0.165	4.2		Prof. Jnedt.
Bamberg	29.07	738.4	29.92	760.0	70.3	21.3	70	s.			1	0	7 n		s.	0	0	raining	Prof. Dr. Hoh.
Berlin	29.66	753.3	29.83	757.6	82.0	27.8	46	e.			2		7			0	0		Prof. Dr. Arndt.
Breslau	29.41	747.0	29.94	760.4	83.5	28.6	38	sse.			3		3			0	0		Royal University Obs'y.
Carlsruhe	29.50	749.2	29.92	760.0	73.0	22.8	67	se.			1		10	sw.		0.169	4.3		Albert Senz.
Cassel	29.13	740.0	29.85	758.1	68.5	20.3	89	s.			2		9	sw.		0.004	0.1		Dr. H. Möhl.
Frankfort-on-the-Main	29.51	749.6	29.86	758.4	77.2	25.1	64	s.			1		0			0.031	0.8		Physical Society.
Friedrichshafen	28.52	724.3	29.90	759.4	70.7	21.5	74	s.			1		4	wsw.		0.220	5.6		Wilhelm, Chief Tel.
Hamburg	29.81	757.1	29.90	759.5	68.9	20.5	80	wsw.			1		10			0.118	3.0	thund'r storm	E. Preller.
Kiel	29.84	758.0	29.86	758.4	69.4	20.8	78	wsw.			1		9			0.020	0.5		Prof. Dr. G. Karsten
Leipsic, Astrom'l Obs'y	29.44	747.8	29.84	758.0	78.1	25.6	54	e.			3		7			0	0		H. Leppig, Asst.
Magdeburg	29.65	753.0	29.82	757.5	81.5	27.5	57	ese.			2	c	3 ks		se.	0	0		Dr. Assmann.
Memel	30.03	762.7	30.08	763.9	81.3	27.4	46	sw.			2	0	2 k						Issermann.
Munich	28.14	714.7	30.00	761.9	72.5	22.5	57	nw.			1		4	ne.		0.004	0.1		Dr. C. Lang.
Neufahrwasser	29.94	760.4	29.95	760.8	77.5	25.3	65	e.			1		5			0	0		A. Lothes.
Neustadt, Palatinate	29.33	744.9	29.85	758.2	73.0	22.8	86	s.			1		9	s.		0.091	2.3		Dicknether.
Stuttgart	28.97	735.7	29.82	757.5	71.6	22.0	70	sw.			1		10			0.059	1.5		Prof. Dr. Schoder.
Wustrow	29.91	759.7	29.94	760.4	71.2	21.8	71	nne.			3	0	3 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.60	751.8	29.97	761.1	87.1	30.6		ne.			1.5		1			0	0		Schmidt & Wourlisch
Indian.																			
Kurrachee	29.53	750.1	29.58	751.4	83.2	28.4	78	wsw.	32.0	14.3			9		w.	0	0	gloomy	
Deesa	29.11	739.4	29.58	751.3	84.5	29.2	62	wsw.	20.0	8.9			3	w.		0	0	d. clouds	
Bombay	29.71	754.6	29.75	755.5	80.5	26.9	84	wsw.	19.0	8.5			10	wsw.	wsw.	0.01	0.3	overcast	
Poona, Yarrowda	27.90	708.6	29.76	756.0	73.9	23.3	80	wsw.	16.0	7.2			10		w.	0.03	0.8	overcast	
Trichinopoly	29.48	748.6	29.75	755.6	91.4	33.0	41	nw.	2.0	0.9			10			0	0	overcast	
Bellary	28.26	717.7	29.70	754.4	86.4	30.2	47	nw.	12.3	5.5			9	sw.		0	0	gloomy	
Belgaum	27.26	692.5	29.83	757.6	69.7	20.9	92	wnw.	12.0	5.4			8		w.	0.20	5.1	showery	
Lahore	28.72	729.4	29.43	747.4	94.1	34.5	50	w.	2.0	0.9			3			0	0	blue sky	
Roorkee	28.55	725.1	29.41	747.1	92.0	33.3	58	w.	2.5	1.1			5			0.05	1.3		
Agra	28.96	735.5	29.51	749.5	88.2	31.2	65	w.	8.0	3.6			8		w.	0	0	d. clouds	
Nagpur	28.59	729.2	29.61	752.2	86.7	30.4	53	wsw.	2.0	0.9			6		w.	0	0	d. clouds	
Jubbulpore	28.27	718.0	29.60	751.8	85.5	29.7	57	wnw.	4.3	1.9			3		nw.	0	0	d. clouds	
Lucknow	29.16	740.6	29.53	749.9	88.1	31.2	68	calm	2.1	0.9			10	ene		0	0	overcast	
Allahabad	29.22	742.2	29.53	750.0	88.2	31.2	67	calm	0	0			9		w.	0	0	d. clouds	
Patna	29.38	746.3	29.57	751.0	84.2	29.0	77	w.	3.3	1.5			8	w.	w.	0.61	15.5	d. clouds	
Hazaribagh	27.60	701.0	29.59	751.5	79.3	26.3	75	nnw.	0.9	3.1			10		nw.	0.06	1.5	thund'r st'm	
Cuttack	29.56	750.9	29.65	753.0	80.0	26.7	89	nw.	3.2	1.4			10			0.10	2.5	drizzling	
Calcutta, Alipore	29.59	751.5	29.61	752.1	80.6	27.0	87	n.	4.0	1.8			10		s.	0.11	2.8	overcast	
Dhubri	29.45	748.1	29.57	751.1	78.8	26.0	93	sw.	2.0	0.9			9			3.09	78.5	d. clouds	
Chittagong	29.56	750.8	29.65	753.1	78.7	25.9	92	s.	6.1	2.7			9			0.02	0.5	overcast	
Sibsagar	29.20	741.5	29.52	749.9	85.2	29.6	83	sw.	4.0	1.8			8	e.	e.	0.40	10.2	d. clouds	
Jeypore	28.11	714.0	29.51	749.5	91.3	32.9	49	wsw.	3.9	1.7			3		w.	0	0	d. clouds	
Zanzibar, Africa	30.04	763.0			79.7	26.5	58	se.	7.0	3.1			8			0	0	gloomy	
Italian.																			
Udine	29.57	751.0	29.96	761.0	81.5	27.5	48	s.	2.5	1.1			9			0	0		Prof. Giovanni Clodig.
Milan	29.45	748.0	29.95	760.6	82.0	27.8	48	e.	4.9	2.2			7	ssw.		0	0		Prof. Schiaparelli.
Padua	29.84	758.0	29.95	760.7	80.1	26.7	56	nnw.	5.6	2.5			10	sw.		1.067	27.1		Prof. Dott. Lorenzoni.
Moncalieri	29.06	738.0	29.93	760.2	74.8	23.8	63	s	2.5	1.1			5	w.		0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Genoa	29.79	756.6	29.97	761.3	76.1	24.5	63	se.	6.9	3.1			8	w.		0	0		Prof. G. M. Garibaldi.
Mondovi	28.10	713.8	29.94	760.4	72.9	22.7	52	nw.			2		8			0	0		Prof. D. C. Bruno
Pesaro	29.88	758.9	29.93	760.1	80.2	26.8	49	ene.	7.4	3.3			10			0	0		Prof. Luigi Guidi.
Florence	29.78	756.3	30.02	762.5	71.6	22.0	74	sw.			6		10			0.386	9.8		Prof. Costantino Pitt'er.
Leghorn	29.85	758.3	29.94	760.4	73.6	23.1	71	ne.	6.9	3.1			10			0.492	12.5		Prof. P. Monte.
Rome	29.84	757.8	30.00	762.1	84.4	29.1	43	ssw.	18.1	8.1			5			0	0		Prof. P. Tachini.
Lecce	29.75	755.6	29.99	761.7	86.0	30.0	34	sse.	8.1	3.6			0			0	0		Prof. C. de Giorgi
Cosenza	29.18	741.2	30.04	762.9	86.0	30.0	73	wsw.	3.8	1.7			0			0	0		Prof. D. Conti.
Cagliari																			Prof. A. Pacinotti.
Palermo	29.80	756.8	30.04	762.9	86.5	30.3	33	ne.	6.9	3.1			1			0	0		Prof. G. Giacciatore.
Syracuse	29.94	760.5	29.98	761.6	85.1	29.5	52	s.	17.4	7.8			2	s.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.53	750.1	30.04	762.9	81.5	27.5	45	ssw.	3.8	1.7			0			0	0		Prof. T. Brioschi.
Stelvio	22.29	566.1			49.3	9.6	72	w.			2		10			0.307	7.8	misty	Prof. P. F. Denza
Valdobbin	22.32	566.9			50.2	10.1	85	n.			2		10			0.079	2.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.74	755.4	29.77	756.1	74.3	23.5	84	nne.	0.3	0.1			10 8			0	0	overcast	K. Ogawa.
Hakodate	29.74	755.4	29.75	755.6	74.0	23.3	74	nw.	6.0	2.7			10			0	0	overcast	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.75	755.6	29.91	759.7	76.5	24.7	85	sw.	2.6	1.2		0	0			0	0	clear	M. Fojima.
Nagasaki, I. M. Obs'y	29.68	753.8	29.87	758.7	79.8	26.6	76	sse.	6.9	3.1		c	0			0.290	7.4	clear	
Nemuro	29.75	755.6	29.81	757.2	65.5	18.6	93	calm	0	0		10	0			0	0	cloudy	
Niigata	29.84	757.9	29.87	758.7	75.2	24.0	95	sw.	15.5	7.0			10ck;ks			1.060	26.9	overcast	M. Morita.
Nobiru	29.80	756.8	29.81	757.2	71.1	21.7	83	w.	7.7	3.5			10 s;n		wsw.	2.231	54.1	covered	H. Midzushima.
Osaka	29.88	758.9	29.89	759.2	79.1	26.2	84	wnw.	7.0	3.1		0	4 ck;s			0	0	fair	
Sapporo					66.3	19.1	97	se.	6.6	2.9			10		w.	0.270	6.9	rainy	
Tokei Obs'y, Yeddo	29.76	756.0	29.84	757.9	79.3	26.3	93	s.	3.3	1.4		7 cs	0	n.		c	0	fair	The Staff.
Wakayama	29.88	758.9	29.93	760.2	79.5	26.4	80	ssw.	3.4	1.5		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	30.00	762.0	30.20	767.1	72.0	22.2	72	ese.	24.0	10.7		0	4 k;ks		ese.	0	0	fair	Oliver & Figom.
MEXICAN.																			
Guanajuato	23.71	602.3	29.93	760.3	58.8	14.9	97	calm	0	0		2 c	5 k	s.	s.	2.028	51.5	misty	Prof. Vicente Fernandez.
Leon.†	24.37	619 0	30.03	762.7	59.7	15.4	94	ese.			1	6 c	2 k	s.	s.	1.508	30.8	cloudy	Prof. M. Leal.
Mazatlan	29.72	754.8	29.98	761.4	74.0	23.3	95	e.	5.3	2.3			10 n		se.	0.610	15.5	rainy	F. Quijano, C. E.
Mexico, Central Obs'y	23.13	587.4	30.15	765.7	54.1	12.3	87	w.	0.2	0.1		7 ck	1 k			inap.	inap.	cloudy	The Staff.
Morelia	24.22	615.1	30.22	767.6	59.5	15.3	72	e.			2	1	2	s.	se.	0	0	½ cloudy	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.97	608.8	29.91	759.7	61.3	16.3	97	calm			0		10 n			1.3207	33.4?	raining	M. V. de Leon, M. E
Puebla, Catholic Institute	23.43	595.0	30.24	768.0	50.7?	14.0?	87	calm			0	0	9			0.087?	1.8?	very cloudy	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D.
Zacatecas	22.62	574.6	30.23	767.9	54.0	12.2	87					10 c	0			0	0	cloudy	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	29.81	757.1	29.81	757.1	71.8	22.1		s.			4					0.189	4.8		
Groningen	29.77	756.1	29.82	757.5	74.7	23.7		s.			1					0	0		
Helder	29.80	756.8	29.80	756.8	68.0	20.0		sse.			1					0.960	24.6		
Hellevoetsluis	29.80	756.9	29.80	756.9	75.9	24.4	65	ssw.			2					0.220	5.6		
Utrecht	29.77	756.2	29.82	757.4	75.7	24.3	60	s.			2		5			0.204	6.7	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.78	756.4	29.84	758 0	69.8	21.0	67	ssw.	13	6			5			0.701	17.8		
Brono	29.85	758.2	29.89	759.2	60.4	15.8	90	calm	0	0			10			0.354	9.0	rain & fog	
Christiania	29.79	756.7	29.93	760.3	71.8	22.1	67	ssw.	4	2			7			0	0		
Gjesvær	29.02	752.4	29.65	753.0	59.5	15.3		calm			0		10						
Lodingen	29.72	755.0	29.77	756.2	57.0	13.9	96	wsw.			4		10			0.209	5.3	rain & fog	
PORTUGUESE.																			
Angra, Azores					73.8	23.2	81	nne.	5.6	2.5			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.16	740.6	30.11	764.9	81.5	27.5	38	nw.	4.9	2.2			2			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.21	767.2	30.29	769.4	74.8	23.8	62	sw.	4.9	2.2			8			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.89	759.2	30.24	768.2	71.8	22.1	65	n.	18.1	8.1			1			0	0		The Staff.
Ponta Delgada, Azores	30.41	772.5	30.48	774.3	75.9	24.4	65	nne.	7.4	3.3			4			0	0		
Saint Paul de Loando	29.81	757.1	30.01	762.3	70.3	21.3	81	n.			1		0			0	0		
Serra da Estrella	25.48	647.2	30.19	766.8	54.0	12.2	75	nw.	14.3	6.4			8			0.209	5.3	foggy	
RUSSIAN.																			
Akmolinski	28.50	723.8	29.55	750.6	54.3	12.4	95	nnw.	18	8			10 n			0.004	0.1		Major K. Lasarew.
Archangel	29.95	760.6	29.97	761.1	77.2	25.1	55	e.	2	1		0	8 ks			0	0		Capt. Sseliwerstow.
Astrakhan	29.94	760.5	29.86	758.4	86.9	30.5	40	e.	9	4			10 8			0	0		Capt. Wisganow.
Barnaul	29.13	739.8	29.60	751.7	75.6	24.2	37	sse.	2	1			0			0	0		Meteorological Obs'y.
Dorpat	29.90	759.4	30.13	765.2	82.2	27.9	43	ese.	4	2		0	0			0	0		Observatory.
Ekaterinburg	28.88	733.5	29.83	757.6	55.8	13.2	90	wnw.	7	3			10			0.098	2.5	raining	Meteorological Obs'y.
Irkutsk																			
Kasan	29.69	754.2	29.95	760.7	75.4	24.1	51	nw.	2	1		0	0 k			0.031	0.8		Observatory.
Kertch	29.74	755 5	29.76	756.0	73.6	23.1	88	nnw.	31	14		0	7 ks			0	0		Lagorio & Sastyrez.
Kieff	29.30	744.3	29.91	759.8	77.9	25.5	48	ene.	4	2		0	5 k;ks						Observatory.
Lugan	29.63	752.0	29.83	757.6	72.5	22.5	77	n.	9	4			10			0.831	21.1		Meteorological Obs'y.
Moscow	29.61	752.1	30.06	763.4	80.6	27.0	37	nw.	4	2		0	3 ks						Meteorological Obs'y.
Nikolaiev	29.86	758.4	29.93	760.2	74.3	23.5	63	nne.	4	2			9 n			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor.																			Lieut. Iwanow.
Pekin, China	29.56	750.9	29.71	754.5	75.4	24.1	88	sw.	4	2			10 n			0.055	1.4		Physical Observatory.
St. Petersburg	30.12	765.1	30.14	765.5	82.4	28.0	30	wnw.	4	2		0	1			0	0		Central Physical Obs'y.
Semipalatinsk	28.93	734.8	29.54	750.3	81.0	27.2	48	wnw.	4	2			8			inap.	inap.		Major Lasarew
Tashkend, Laboratory	28.24	717.4	29.71	754.5	86.0	30.0	34	calm	0	0			1			0	0		Teich, A. M.
Tiflis	28.38	720.8	29.70	754.3	89.4	31.9	30	se.	2	1			10			0	0		Physical Observatory.
Vladivostock	29.72	754.9	29.79	756.6	67.3	19.6	97	se.	7	3			10 n						
Warsaw	29.55	750.6	29.95	760.7	82.9	28.3	50	ne.	4	2		0	5 k						Astronomical Obs'y.
Wilna	29.60	753.3	30.06	763.4	79.9	26.6	53	calm	0	0			3			0	0		Berg, Assistant.
Yeniseisk	29.56	750.7	29.83	757.7	69.4	20.8	69	calm	0	0			0			c	0		M. O. Marks.
SCOTTISH.																			
Monach Lt.			29.48	748.8	60	15.6	94	e.			4	10	5	n.		0.1	3.	overcast	J. Youngclause.
North Unst			29.61	752.1				s.			6		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.89	759.2	29.99	761.8	77.4	25.2	69	e.	1.8	0.8		0	3			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.14	765.5	30.20	767.0	74.5	23.6	60	nw.	2.9	1.3		2	4	ne.		0.020	0.5	clear	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.22	691.4	30.10	764.6	70.5	21.4	48	sw.	6.3	2.8		0	7			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.90	708.7	30.03	762.8	79.5	26.4	39	nw.	4.9	2.2		0	1			0	0	clouds	The Staff.
Murcia, Met. Obs'y	29.88	759.0	30.07	763.7	91.4	33.0	44	nw.	3.4	1.5		0	2			0	0	almost clear	Olayo Diaz, Director
Oviedo	29.32	744.6	30.16	766.0	66.2	19.0	78	nw.	5.5	2.5		0	6 n			0	0	cloudy	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.29	744.0	30.17	766.3	68.9	20.5	65	nw.	8.1	3.6		0	8			0.102	2.6	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.97	761.2	30.03	762.8	78.2	25.7	87	se.	5.4	2.4		8 ck	1 s	ne.		inap.	inap.	cloudy	Benito Vines, S. J.
Manilla, Philippine Islands	29.83	757.6	29.89	759.1	81.6	27.6	80	sw.	17.6	7.9		0	1 ks			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.05	763.3	30.15	765.8	76.6	24.8	62	wnw.	5.6	2.5		1	0	wnw.		0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W.I	29.99	761.7	30.08	764.0	81.3	27.4	89	s.	5.6	2.5			10 n		se.	0	0	overcast	Manuel Maese.
Tuguegarao, Philippine Id's	29.68	753.9	29.81	757.2	79.6	26.4	85	se.	2.1	0.9			10 kn		se.	0.06	1.5	covered	José L. Ynstorza.
SWEDISH																			
Haparanda																			
Umea	29.84	757.8	29.87	758.8	65.8	18.8	81	s.			4		0			0	0		
	29.90	759.5	29.95	760.8	73.2	22.9	67	sw.			4		0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Hernosand	29.84	757.9	29.89	759.2	70.2	21.2	75	s.			6		0			0	0		
Stockholm	29.84	758.0	30.02	762.5	77.4	25.2	45	s.			2		2			0	0		
Wisby	29.95	760.6	30.00	762.1	82.8	28.2	41	s.			4		3			0	0		
Sub-series.																			
Upsala	29.88	759.0	29.97	761.2	78.3	25.7	45	s.	14.5	6.5			5		ssw.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.63	727.2	30.01	762.2	71.2	21.8	50	ssw.			3		10			1.618	41.1	covered	The Observatory
Turkish.																			
Constantinople			29.99	761.7	80.6	27.0	50	n.	12	5.5			3		ne.	0	0		The Observatory.
Valona			30.16	766.1	80.1	26.7		w.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.77	756.1	86.2	30.0	57	w.			2	0	1 s		sw.	0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.91	759.7	29.99	761.7	76.5	24.7	71	s.	6	2.7		1 cs	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.20	741.7	29.84	757.9	65	18.3	90	sw.	4	1.8		0	3 s			0.06	1.5	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.04	636.0	29.76	755.9	59	15.0	90	e.	3	1.3		0	0			0.41	10.4	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.22	691.4	29.97	761.2	50	10.0	74	ne.	8	3.6		0	0			inap.	inap.	clear	B. O. Lenoir.
Atlanta, Georgia	28.91	734.3	30.06	763.5	72.5	22.5	84	ne.	3	1.3		0	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	30.02	762.5	30.03	762.7	75	23.9	94	calm	0	0		3 ck	7 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.87	758.7	30.06	763.5	74	23.3	88	e.	1	0.4		1 c	0			0.01	0.3	clear	John Healy.
Baltimore, Maryland	30.00	762.0	30.05	763.3	72	22.2	84	s.	2	0.9		7 cs	fg.	w.		0	0	fair	Robert Seyboth.
Barnegat, New Jersey	30.02	762.5	30.04	763.0	77.0	25.0	64	s.	4	1.8		0	5ks;fg		w.	0	0	fair	G. A. Hill.
Bennett, Fort, Dakota	28.40	721.3	29.94	760.5	61	16.1	90	calm	0	0		4 ck	0			inap.	inap.	fair	A. Pritchard.
Benton, Fort, Montana	27.21	691.1	30.00	762.0	54	12.2	74	calm	0	0		0	0			0	0	clear	S. Wheaton.
Behring Island, Behring Sea	29.78	756.4	29.80	756.9	50.5	10.3		s.	7	3.1			10 ks			0.02	0.5	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.16	715.3	29.91	759.7	56	13.3	90	nw.	11	4.9		0	hz.			inap.	inap.	clear	Cyrus Cramer.
Block Island, Rhode Island	30.02	762.5	30.05	763.3	73	22.8	90	sw.	15	6.7		6 cs	0	nw.		0	0	fair	J. T. Elker.
Boise City, Idaho	27.66	687.3	29.81	757.2	66	18.9	56	nw.	4	1.8		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.86	758.4	30.01	762.2	72.0	22.2	82	sw.	12	5.4		3 c	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.87	758.7	29.91	759.7	78.0	25.6	90	s.	5	2.2		4 c	3 s			0	0	fair	M. McCarty.
Buffalo, New York	29.22	742.2	29.95	760.7	72	22.2	84	s.	13	5.8		9 cs	fg.	sw.		inap.	inap.	cloudy	Clarence Weaver.
Buford, Fort, Dakota	28.08	713.2	30.02	762.5	52	11.1	74	nw.	3	1.3		0	0			0.02	0.5	clear	A. H. Bell.
Burlington, Vermont	29.63	752.6	29.92	760.0	72.0	22.2	79	s.	9	4.0		0	0			0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.61	752.1	30.00	762.0	75.8	24.3	86	sw.	4	1.8			10 n		sw.	0.04	1.0	light rain	W. H. Ray.
Campo, California	27.37	695.2	29.87	758.7	53.3	11.8	69	w.	2	0.9		0	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	30.00	762.0	30.02	762.5	76	24.4	85	e.	5	2.2			10 s			0.02	0.5	cloudy	A. K. Alderson.
Cape May, New Jersey	30.00	762.0	30.03	762.7	75.0	23.9	90	se.	9	4.0			10s;fg		se.	0	0	cloudy	W. E. Smith.
Cape Mendocino	29.43	747.5			54	12.2	80	n.	14	6.3			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	30.00	762.0	30.02	762.5	78	25.5	88	ne.	5	2.2		4 c	3 ks			0.03	0.8	fair	F. W. Mixer.
Champaign, Illinois	29.11	739.4	29.90	759.4	68.8	20.4	90	s.	6	2.7		8 k	0	s.		0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.92	760.0	29.97	761.2	73	22.8	97	nw.	10	4.5			10 s			1.43	36.3	threatening	J. H. Smith.
Charlotte, N. Carolina	29.18	741.2	30.01	762.2	72.0	22.2	82	ne.	2	0.9		6 cs	0			0.09	2.3	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.26	743.2	30.06	763.5	69.0	20.6	93	calm	0	0		1 ck	fg.	w.		0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.18	614.2	29.88	758.9	54.7	12.6	61	n.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.17	740.9	29.86	758.4	73.8	23.2	77	sw.	6	2.7		10 c	0	w.		inap.	inap.	cloudy	J. Mitchell.
Chincoteague, Virginia	30.00	762.0	30.02	762.5	77	25.0	90	s.	1	0.4		10 cs	0	sw.		0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.36	745.7	30.00	762.0	70.5	21.4	83	se.	3	1.3		6 c;k	hz.	sw;s		0	0	fair	J. F. Harrold.
Cleveland, Ohio	29.27	743.4	29.99	761.7	69.9	21.1	76	se.	5	2.2		4 c;ck	0	w.		0	0	fair	J. B. Newlin.
Coleman City, Texas	28.12	714.2	29.86	758.4	75	23.9	90	se.	10	4.5			10 s		s.	0	0	cloudy	L. Dorman.
Columbus, Ohio	29.16	740.7	29.99	761.7	68	20.0	78	s.	4	1.8		6 cs	0	w.		0	0	fair	D. Cuthbertson.
Concho, Texas	28.01	711.4	29.87	758.7	75	23.9	82	e.	4	1.8		0	8 s		se.	0	0	cloudy	W. W. McConihe.
Custer, Fort, Montana	26.88	682.7	29.94	760.5	53	11.7	74	n.	4	1.8		0	0			0	0	clear	W. B. Lamar.
Davenport, Iowa	29.27	743.4	29.90	759.4	72	22.2	76	w.	7	3.1			10 ks		nw.	0	0	threatening	R. R. Martin.
Davis, Fort, Texas	25.10	637.5	29.75	755.6	65	18.3	84	se.	4	1.8		0	6 ks		se.	0.10	2.5	fair	J. Williams.
Dayton, Washington T'y	28.07	713.0	29.78	759.4	54.8	12.7	64	calm	0	0		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.49	647.4	29.92	760.0	53	11.7	77	e.	4	1.8		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					74	23.3	71	se.	10	4.5		0	0			0.28	7.1	clear	D. J. Carr.
Delaware Breakwater, Del.	30.02	762.5	30.04	763.0	73	22.8	97	s.	8	3.6		2 ck	4 k	s.	s.	0	0	fair	T. S. Townsend.
Denison, Texas	29.14	740.1	29.92	760.0	74.0	23.3	90	calm	0	0		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.85	631.2	29.87	758.7	60.0	15.6	52	s.	5	2.2		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	28.97	735.8	29.85	758.2	67	19.4	90	n.	1	0.4		5 cs	0	w.		0.42	10.7	fair	F. W. Conrad.
Detroit, Michigan	29.24	742.7	29.94	760.5	72.3	22.3	84	s.	2	0.9		4 c	1 s	nw.	calm	0	0	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.33	694.2	29.81	757.2	64	17.8	84	s.	4	1.8		0	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.20	741.7	29.88	758.9	68.3	20.2	93	w.	8	3.6			10 n			0.38	9.7	thund'r st'm	J. Harvey Smith.
Duluth, Minnesota	29.06	738.1	29.78	759.4	56	13.3	100	calm	0	0			fg.			0.02	0.5	dense fog	N. B. Conger.
Eagle Pass, Texas	29.12	739.6	29.92	760.0	74.1	23.4	85	se.	6	2.7			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.27	641.8	29.82	757.4	50	10.0	61	s.	5	2.2		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.86	758.4	29.92	760.0	63.0	17.2	90	sw.	7	3.1		4 k	5s;hz	w.	w.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.13	689.1	29.77	759.1	68	20.0	66	se.	3	1.3		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.20	665.5	29.80	756.9	69	20.6	76	nw.	1	0.4		2 ck	0			0	0	clear	J. F. Marshall
Erie, Pennsylvania	29.24	742.7	29.95	760.7	74	23.3	76	s.	3	1.3		8 ck	0			0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.14	740.1	29.78	759.4	64	17.8	97	calm	0	0			10 s			0.24	6.1	cloudy	George Heathcote.
Fredericksburg, Texas	28.23	717.0	29.94	760.5	74	23.3	97	s.	4	1.8			10 s			0.02	0.5	cloudy	Frank Halwegler.
Galveston, Texas	29.94	760.5	29.99	761.7	81	27.2	88	sw.	13	5.8		5 c	fg.			0.05	1.3	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.21	741.9	29.86	758.4	72.0	22.2	82	s.	16	7.2		2 c	2 s	sw.	sw.	inap.	inap.	fair	W. A. Reid.
Grant, Fort, Arizona	25.22	640.6	29.78	756.4	65.9	18.8	84	n.	2	0.9		0	3 s			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.01	762.2	30.03	762.7	80	26.7	79	se.	8	3.6		9 k	0			0.38	9.7	cloudy	R. M. Crawford.
Helena, Montana	25.84	656.3	29.93	760.2	63	17.2	54	w.	4	1.8		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	28.96	735.6	29.96	761.0	78.0	25.6	69	s.	6	2.7		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.53	724.6	29.87	758.7	57.4	14.1	90	nw.	4	1.8		0	0			0.70	17.8	clear	S. W. Glenn.
Indianapolis, Indiana	29.17	740.9	29.94	760.5	73	22.8	76	se.	4	1.8		6 c;cs	0	sw;w		0	0	fair	O. Schutze
Indianola, Texas	29.94	760.5	29.97	761.2	81.0	27.2	85	s.	12	5.4		8 cs	0	sw.		0	0	cloudy	I. A. Reed.
Jacksboro, Texas	28.75	730.2	29.87	758.7	74	23.3	85	s.	5	2.2		0	5 s			0	0	fair	J. P. Sherry.
Jacksonville, Florida	29.97	761.2	30.01	762.2	77	25.0	82	ne.	1	0.4		4 cs	0			0.01	0.3	fair	J. W. Smith.
Keogh, Fort, Montana	27.55	699.8	29.98	761.5	53	11.7	69	sw.	1	0.4		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.23	742.4	29.86	758.4	75.0	23.9	85	sw.	6	2.7		8 k	0	sw.		0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.00	762.0	30.02	762.5	82.0	27.8	80	s.	8	3.6			10 ks		s.	0.02	0.5	cloudy	R. H. Paxton.
Kittyhawk, North Carolina	30.04	763.0	30.06	763.5	78	25.6	90	e.	4	1.8		0	9 n		se.	0.20	5.1	light rain	E. A. Beals.
Knoxville, Tennessee	29.05	737.9	30.06	763.5	68	20.0	92	ne.	2	0.9		3 k	fg			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.02	737.1	29.76	755.9	70	21.1	79	se.	6	2.7			10 s		se.	0.30	7.6	threatening	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.01	736.8	29.87	758.7	73	22.8	82	s.	2	0.9		6 cs	2 ks	nw.		0	0	cloudy	A. W. Browne.
Lewiston, Idaho	28.96	735.6	29.77	756.1	64.0	17.8	41	calm	0	0		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.68	753.9	29.99	761.7	76	24.4	90	s.	2	0.9			10 s		s.	inap.	inap.	cloudy	W. U. Simons.
Los Angeles, California																			Egbert van Dyke.
Louisville, Kentucky	29.41	747.0	29.96	761.0	71	21.7	84	sw.	3	1.3		4 k	sk.			0	0	fair	H. C. Smyth.
Lynchburg, Virginia	29.35	745.5	30.02	762.5	70	21.1	84	s.	1	0.4		5 c	0	w.		0	0	fair	Lewis Duane.
Macon, Fort, North Carolina	30.01	762.2	30.02	762.5	75	23.9	97	sw.	15	6.7			10 n		sw.	0.98	24.9	heavy rain	F. P. Chaffee.
Madison, Wisconsin	28.88	733.5	29.86	758.4	67	19.4	93	w.	5	2.2			10 s		w.	3.23	82.0	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.67	652.0			48	8.9	80	nw.	6	2.7		0	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.71	703.8	29.92	760.0	74	23.3	82	se.	5	2.2			10 s			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.09	738.9	29.80	756.9	60	15.6	93	se.	2	0.9			fg		calm	0.33	8.4	dense fog	J. Gilligan.
Memphis, Tennessee	29.67	753.6	30.00	762.0	75	23.9	85	s.	4	1.8		8 cs	0			0.15	3.8	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.11	739.4	29.84	757.9	73	22.8	76	sw.	5	2.2		0	9 ks		sw.	0.15	3.8	threatening	W. Line.

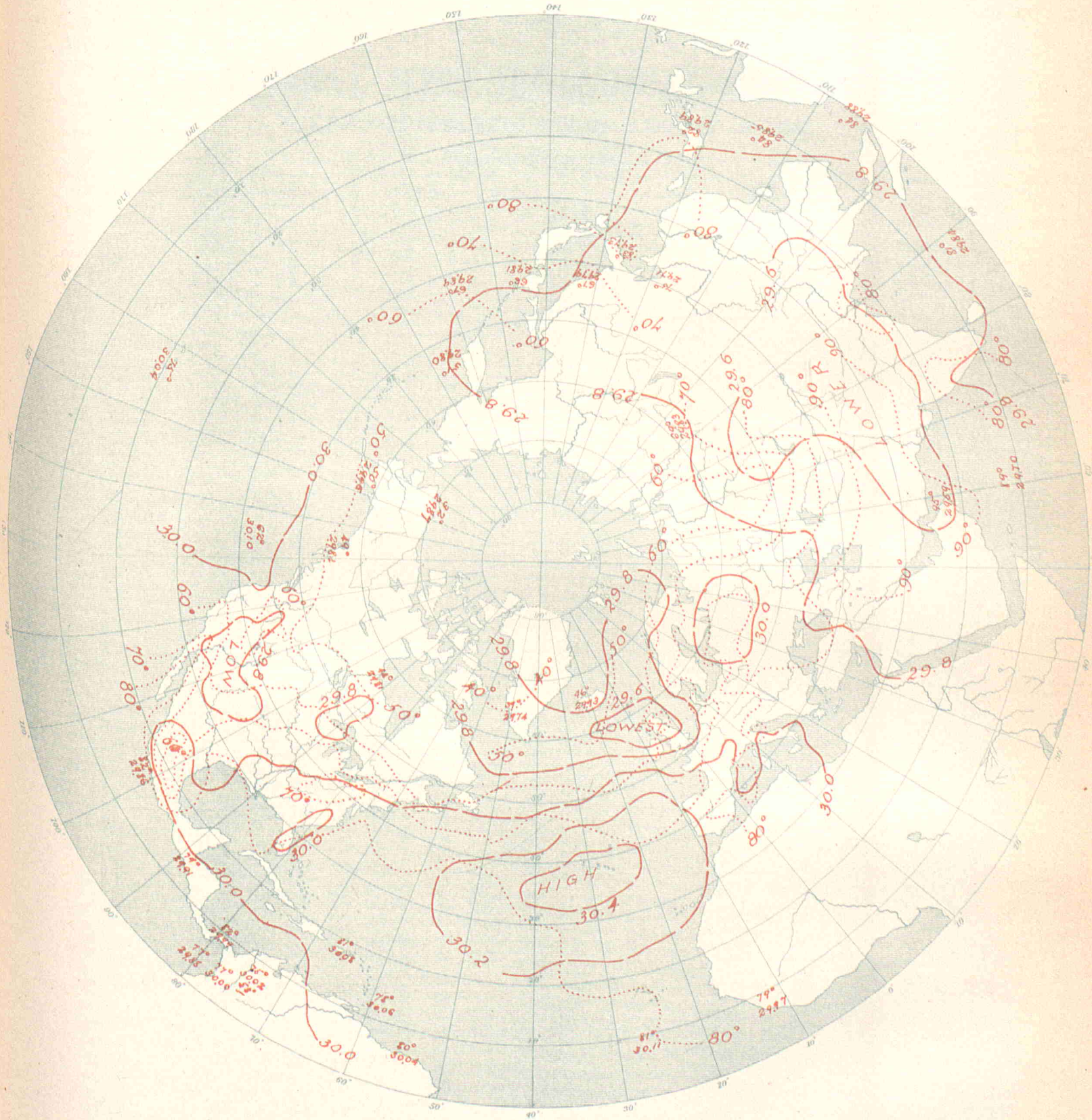
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.69	677.9	29.91	759.7	53	11.7	69	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.01	762.2	30.05	763.3	75	23.9	85	nw.	5	2.2	.....	8 cs	0	.....	.....	0	0	cloudy	C. A. Read.
Montgomery, Alabama	29.82	757.4	30.05	763.3	73	22.8	90	n.	2	0.9	.....	4 ck	0	w.	.....	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	28.86	733.0	29.83	757.7	56	13.3	93	nw.	4	1.8	.....	0	1 s	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.06	738.1	30.06	763.5	64.5	18.1	88	sw.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.90	607.0	29.98	761.5	50.0	10.0	96	nw.	41	18.3	.....	.....	fg.	.....	nw.	0	0	dense fog	J. G. Linsley.
Nashville, Tennessee	29.45	748.0	30.01	762.2	73.5	23.1	87	calm	0	0	.....	.....	10 ks	.....	w.	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.93	760.2	30.04	763.0	71	21.7	90	s.	4	1.8	.....	2 c	6 k; sk	sw.	s.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.00	762.0	30.05	763.3	74	23.3	97	sw.	4	1.8	.....	5 k	4 s	sw.	sw.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.98	761.5	30.03	762.7	78.5	25.8	83	w.	1	0.4	.....	.....	10 s	.....	w.	0.02	0.5	cloudy	L. Dunne.
Newport, Rhode Island	30.00	762.0	30.05	763.3	71.5	21.9	96	sw.	10	4.5	.....	.....	10 s	.....	sw.	0	0	cloudy	W. McGillivray.
New York, New York	29.88	758.9	30.05	763.3	70	21.1	93	s.	4	1.8	.....	4 cs	fg.	w.	.....	0	0	fair	J. B. Merrill.
Norfolk, Virginia	30.00	762.0	30.03	762.7	76	24.4	90	ne.	4	1.8	.....	.....	10 ks	.....	w.	inap.	inap.	cloudy	Wm. Davis.
North Platte, Nebraska	27.08	687.8	29.88	758.9	63.6	17.6	82	ne.	4	1.8	.....	0	2 s	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.88	758.9	29.92	760.0	50.0	10.0	93	w.	1	0.4	.....	0	9 s	.....	s.	0	0	cloudy	J. Dascomb.
Ogdaamie, Pt. Barrow, Alas.	29.86	758.4	29.87	758.7	32.0	0.0	100	ese.	16	7.2	.....	.....	10 s	.....	e.	inap.	inap.	cloudy	P. H. Ray.
Omaha, Nebraska	28.74	730.0	29.88	758.9	68.3	20.2	84	n	4	1.8	.....	4 cs	1 k	.....	.....	0.03	0.8	fair	A. Pollak.
Oswego, New York	29.61	752.1	29.93	760.2	73.8	23.2	79	s.	4	1.8	.....	2 c	hz.	w.	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.45	748.0	29.99	761.7	74.5	23.6	96	s.	8	3.6	.....	7 cs	0	w.	.....	0.01	0.3	fair	L. M. Pindell.
Pensacola, Florida	30.00	762.0	30.04	763.0	77.0	25.0	85	nw.	3	1.3	.....	7c; cs	0	.....	.....	inap.	inap.	fair	M. McGauran.
Philadelphia, Pa	29.95	760.7	30.05	763.3	75	23.9	85	calm	0	0	.....	8 ck	hz	s.	.....	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.04	458.2	29.83	757.7	33	0.6	78	n.	14	6.3	.....	0	0	.....	.....	0.02	0.5	clear	L. M. Dey.
Pioche, Nevada	24.08	611.6	29.78	756.4	58	14.4	62	w.	2	0.9	.....	0	0	.....	.....	0.03	0.8	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.23	742.4	30.02	762.5	69.7	20.9	79	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Poplar River, Montana	27.94	709.7	.....	.....	.....	.....	.....	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.05	763.3	30.06	763.5	78.6	25.9	90	n.	12	5.4	.....	2 c	1 s	.....	.....	0.63	16.0	clear	M. Hermann.
Port Huron, Michigan	29.22	742.2	29.88	758.9	69.2	20.7	90	s.	7	3.1	.....	0	5 s	.....	.....	0.39	9.9	fair	W. O. Bailey.
Portland, Maine	29.88	758.9	29.93	760.2	70.0	21.1	76	w.	6	2.7	.....	0	5 s	.....	n.	0	0	fair	W. W. Eichelberger.
Portland, Oregon	29.86	758.4	29.93	760.2	55.0	12.8	86	s.	5	2.2	.....	.....	10 s	.....	s.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	69	20.6	93	se.	9	4.0	.....	.....	10 n	.....	.....	0.05	1.3	light rain	F. S. Coburn.
Prescott, Arizona	24.70	627.4	29.68	753.9	55	12.8	90	s.	1	0.4	.....	0	0	.....	.....	0.09	2.3	clear	J. McN. Wright.
Provincetown, Mass	29.99	761.7	30.02	762.5	72.5	22.5	84	s	13	5.8	.....	0	3 s	.....	w.	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	29.98	761.5	29.99	761.7	78	25.6	82	sw.	7	3.1	.....	6 cs	4 n	calm	calm	0.06	1.5	light rain	W. J. Evans.
Red Bluff, California	29.53	750.0	29.89	759.2	62.0	16.7	73	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.71	754.6	29.95	760.7	80	26.7	82	se.	8	3.6	.....	4 c	0	se.	.....	0.61	15.5	fair	H. S. Miles.
Rochester, New York	29.29	744.0	29.94	760.5	72	22.2	76	sw.	10	4.5	.....	8 k	hz.	w.	.....	0	0	cloudy	E. W. McGann
Roseburg, Oregon	29.48	748.8	30.02	762.5	57	13.9	69	ne.	4	1.8	.....	.....	10 ks	.....	.....	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.83	757.7	29.90	759.4	58.0	14.4	81	s.	11	4.9	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.35	745.5	29.93	760.2	70.5	21.4	97	sw.	19	8.5	.....	.....	10 n	.....	sw.	0.40	10.2	thund'r st'm	J. H. Webber.
St. Paul, Minnesota	28.95	735.3	29.79	756.7	66.0	18.9	90	s.	3	1.3	.....	9 k	0	nw.	.....	0.17	4.3	cloudy	P. F. Lyons.
St. Vincent, Minnesota	28.99	736.3	29.84	757.9	57	13.9	100	nw.	5	2.2	.....	.....	10s; fg	.....	.....	0.05	1.3	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.61	650.5	29.80	756.9	64	17.8	42	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.24	742.7	29.93	760.2	76.0	24.4	97	se.	2	0.9	.....	4 k	5 s	s.	.....	0.24	6.1	cloudy	T. J. Kenan.
San Diego, California	29.84	757.9	29.91	759.7	64.6	18.1	88	ne.	5	2.2	.....	0	fg.	.....	sw.	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.29	744.0	29.95	760.7	72	22.2	76	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.02	762.5	30.05	763.3	74.0	23.3	82	sw.	8	3.6	.....	6 c	0	sw.	.....	0	0	fair	B. A. Blandon.
San Francisco, California	29.90	759.4	29.97	761.2	54.5	12.5	93	sw.	6	2.7	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gerom.
Santa Fé, New Mexico	23.25	590.5	29.74	755.4	58	14.4	54	e.	9	4.0	.....	3 c	0	.....	.....	0.02	0.5	clear	H. U. Jones.
Savannah, Georgia	29.91	759.7	30.00	762.0	72	22.2	87	n.	10	4.5	.....	0	3 k	.....	n.	1.31	33.3	clear	H. W. Ford.
Shaw, Fort, Montana	26.41	670.8	29.94	760.5	46	7.8	86	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.80	756.9	30.03	762.7	75	23.0	97	s.	1	0.4	.....	.....	10 s	.....	s.	0	0	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.68	728.5	29.86	758.4	73.2	22.9	84	s.	6	2.7	.....	5 c	0	w.	.....	inap.	inap.	fair	T. Cleary.
Silver City, New Mexico	24.27	616.4	29.73	755.1	59	15.0	62	nw.	4	1.8	.....	0	4 s	.....	nw.	1.70	43.2	fair	J. B. Wallace.
Sitka, Alaska	29.78	756.4	29.84	757.9	49.1	9.5	86	ne.	6	2.7	.....	0	0	.....	.....	0.07	1.8	clear	J. J. McLean.
Smith, Fort, Arkansas	29.49	749.0	29.95	760.7	73.2	22.9	90	e.	2	0.9	.....	10 cs	0	e.	.....	0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	29.94	760.5	29.98	761.5	73	22.8	100	n.	2	0.9	.....	0	10 s	.....	n.	0.76	19.3	threatening	O. Parker.
Spokane Falls, Wash. Ter.	27.83	706.9	29.83	757.7	52	11.1	55	calm	0	0	.....	.....	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.25	742.9	29.91	759.7	72.7	22.6	87	s.	4	1.8	.....	2 c	4 s; ks	w.	sw.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.89	759.2	30.02	762.5	73.4	23.0	84	s.	6	2.7	.....	.....	hz.	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo	28.54	724.9	29.93	760.2	72	22.2	81	sw.	8	3.6	.....	0	10 n	.....	sw.	inap.	inap.	light rain	J. B. Marbury.
Starkville, Miss	29.57	751.1	30.04	763.0	79.8	26.0	82	w.	2	0.9	.....	8 ck	1 s	w.	.....	0.12	3.0	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.14	714.7	29.92	760.0	54	12.2	100	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	26.89	683.0	29.83	757.7	67.0	19.4	78	s.	4	1.8	.....	0	8 s	.....	s.	0.04	1.0	cloudy	J. O'Dowd.
Thomas Camp	27.15	689.6	29.77	756.1	70.5	21.4	78	nw.	.....	.....	1	2 cs	3 k	.....	.....	c	0	fair	
Thatcher's Island, Mass	29.93	760.2	29.98	761.5	61.0	16.1	93	s.	12	5.4	.....	.....	fg.	.....	.....	0	0	dense fog	G. Liebmann.
Toledo, Ohio	29.26	743.2	29.93	760.2	73	22.8	76	s.	6	2.7	.....	5 c	sk.	w.	.....	0	0	fair	A. Buell.
Tucson, Arizona	27.50	698.5	29.84	757.9	70	21.1	90	e.	1	0.4	.....	0	7 ks	.....	.....	0.22	5.6	fair	J. L. Whiteside.
Umatilla, Oregon	29.46	748.3	29.82	757.4	62	16.7	56	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	28.96	735.6	29.90	759.4	75	23.9	90	se.	1	0.4	.....	.....	10 s	.....	e.	0.01	0.3	threatening	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	65.2	18.4	73	w.	.....	.....	1	0	0	.....	.....	0.10	2.5	clear	D. Brooks.
Vicksburg, Mississippi	29.80	756.9	30.04	763.0	72	22.2	97	s.	2	0.9	.....	4 cs	hz.	.....	.....	0.02	0.5	fair	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.61	625.1	29.95	760.7	50.8	10.4	64	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	29.92	760.0	30.03	762.7	71.5	21.9	88	w.	2	0.9	.....	4 c	hz.	w.	.....	0	0	fair	F. M. M. Beall.
West Las Animas, Colorado	25.99	660.1	29.74	755.4	61.3	16.3	55	sw.	5	2.2	.....	1 k	2 s	e.	.....	0	0	clear	F. H. Brandenburg
Williamsport, Pa	29.43	747.5	30.01	762.2	65	18.3	90	sw.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	29.94	760.5	29.99	761.7	74	23.3	97	ne.	5	2.2	.....	.....	10 n	.....	.....	0.42	10.7	light rain	Samuel A. Haney.
Winnemucca, Nevada	25.58	649.7	29.81	757.2	52	11.1	38	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.65	727.7	29.93	760.2	65	18.3	78	calm	0	0	.....	0	0	.....	.....	0.03	0.8	clear	J. H. Attfeld.
Yuma, Arizona	29.64	752.8	29.78	756.4	82.3	27.9	56	se.	2	0.9	.....	0	3 s	.....	se.	0	0	clear	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.07	560.6	.....	.....	53.0	11.7	70	s.	2	0.9	.....	0	3ks; n	.....	sw.	0.03	0.8	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.05	763.3	30.06	763.5	78	25.6	95	e.	.....	.....	.....	.....	10 ks	.....	.....	0	0	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.97	761.2	30.00	762.0	77	25.0	90	calm	0	0	.....	.....	10 ks	.....	calm	0.50	12.7	cloudy	J. I. Plume.
Havana, Cuba†	29.95	760.7	30.01	762.2	80	26.7	82	calm	0	0	.....	10 ck	0	.....	.....	0	0	cloudy	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	30.05	763.3	30.05	763.5	80.2	26.8	80	n.	2	0.9	.....	1 c	1 ks	.....	e.	0.03	0.8	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	72	22.2	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa, W. I.	29.92	760.0	30.00	762.0	81	27.2	74	e.	9	4.0	.....	3 k	5 ks	se.	e.	0	0	cloudy	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	80	26.7	82	e.	.....	.....	2	5 ck	3 s	e.	.....	2.000	50.8	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.46	748.3	30.02	762.5	75	23.9	89	se.	.....	.....	1	.....	10 ks	.....	se.	inap.	inap.	sprinkling	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	91	ne.	.....	.....	1	0	0	.....	.....	0	0	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.91	759.7	29.96	761.0	50	10.0	93	calm	.....	.....	0	.....	9 n	.....	.....	0.08	2.0	cloudy	W. J. Fisher.
St. Thomas, W. I.	29.99	761.7	30.12	765.0	81	27.2	69	e.	.....	.....	.....	1 c	3 k	.....	e.	0.18	4.6	fair	Aug. Walloe.
York Factory, B. A.	29.75	755.6	29.81	757.2	44.0	6.7	92	ne.	12	5.4	.....	2 c	2 s	e.	ne.	0.10	2.5	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, N. 28° 47′, W. 36° 38′	30.36	771.1	79.5	26.4	73	ene.			4-5		4							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.81	757.2	82	27.8	83	nw.			3		3							misty.
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.03	762.7	70.8	21.6	85	ne.			1		4	sw.				3	wnw.	misty.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	30.00	762.0	79	26.1		n.			3		2							d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.27	768.8	60.5	15.8		nw.			1-3		5							d. clouds.
H. M. S. Cleopatra, N. 42° 56′, E. 134° 36′	29.81	757.2	65	18.3	100	nne.			5		10					3	nne.	showery.
H. M. S. Comus, Esquimalt, Vancouver Island	29.92	760.0	57	13.9	93	wsw.			1-2		2							d. clouds.
H. M. S. Diamond, S. 16° 15′, E. 161° 42′	29.97	761.2	79	26.1	82	sse.			1		3							d. clouds.
H. M. S. Dido, N. 17° 55′, W. 77° 00′	30.10	764.5	80	26.7		calm			0		0							blue sky.
H. M. Dock Yard, Bermuda, W. I.	30.12	765.0	80.5	26.9	82	ene.			1-2		2	ene.						d. clouds.
H. M. S. Flying Fish, N. 32° 44′, E. 129° 52′	29.81	757.2	83	28.3	85	sse.			1		5							d. clouds.
H. M. S. Gannet, S. 12° 04′, W. 77° 11′	30.05	763.3	59	15.0	97	sse			3		10							drizzling.
H. M. S. Griffon, N. 47° 35′, W. 57° 23′	29.95	760.7	59.5	15.3	76	calm			0		4							d. clouds.
H. M. S. Iron Duke, N. 43° 07′, E. 131° 55′	29.89	759.2	68	20.0	100	se.			2-3		10					2	ese.	squally.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	29.99	761.7	78.3	25.7	84	sse.			2		5					2	sse.	misty.
H. M. S. Liffey, Coquimbo, Chili	29.93	760.2	53	11.7		ne.			1									foggy.
H. M. S. Magpie, N. 35° 07′, E. 128° 40′	29.80	756.9	80.7	27.1	79	se.			2-3		6							misty.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.83	757.7	80	26.7	76	nw.			3		3							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	29.95	760.7	62.5	16.9	86	ssw.			1		9	sw.						d. clouds.
H. M. S. Pegasus, N. 1° 42′, E. 106° 05′	29.88	758.9	84	28.9	83	se.			1-2		4					3	se.	d. clouds.
H. M. S. Sappho, Honolulu, Sandwich Islands	30.04	763.0	75	23.9	90	ne.			1		0							blue sky.
H. M. S. Swiftsure, S. 41° 05′ W. 74° 55′	30.20	767.1	46	7.8	92	sse			3-4		8	ssw.						d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.31	769.9	49	9.4	87	wnw.			1		5	calm				4	ssw.	d. clouds.
H. M. S. Tenedos, N. 49° 27′ W. 56° 09′	29.86	758.4	59	15.0	81	sw.			1		10							overcast.
H. M. S. Triumph, Montevideo, Uruguay	30.27	768.8	50	10.0	71	ssw.			1		7	ssw.						d. clouds.
H. M. S. Woodlark, Muscat, Arabia	29.49	749.0	94.5	34.7	67	calm			0		0							misty.
Portuguese Naval.																		
Rio Lima, Por o Praya, Cape Verd Islands	30.13	765.3	77.9	25.5	88	nw.			2		3			1 h'r	1 h'r	1		showery.
Tamega, Macao, China	29.69	754.0	83.3	28.5	81	sw.			3		0							blue sky.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.95	760.7	76	24.4	86	n.	1	0.4			8		n.	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.95	760.7	73	22.8	81	nw.	7	3.1			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.71	754.6	81	27.2	85	calm			0		0			0	0			clear.
Adams, Mare Island, Cal			57	13.9	94	sw.			2		10			0	0	sm'h		cloudy.
Alaska, S. 4° 15′, W. 119° 44′	29.98	761.5	72	22.2	90	e.			3		5			0	0	sm'h		fair.
Alliance, Portsmouth, N. H.	29.98	761.5	68	20.0	90	wnw.			1		2			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan*	29.73	755.1	84	28.9	96	calm			0		2		nnw.					clear.
Brooklyn, Rio de Janeiro, Brazil	30.06	763.5	71	21.7	95	n.	4	1.8			5		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.02	762.5	74	23.3	90	sw.	3	1.3			2		calm	0	0			clear.
Constellation, N. 39° 06′, W. 71° 56′*	30.08	764.0	77	25.0	95	sse.			1		10		calm			sm'h		overcast.
Enterprise, Portsmouth, N. H.	29.94	760.5	67	19.4	94	sw.			1		5		sw.					fair.
Essex, Coquimbo, Chili	29.93	760.2	53	11.7	93	ne.			0-1		10					sm'h	ne.	foggy.
Franklin, Norfolk, Va.	30.05	763.3	77	25.0	91	ene.	1.5	0.7			10			0	0			cloudy.
Galena, N. 17° 32′, W. 26° 00′	30.10	764.5	80	26.7	91	e.			1		2		e.			mod.	ne.	clear.
Independence, Mare Island, Cal	29.97	761.2	56	13.3	100	sw.			3		10		sw.	0	0			cloudy.
Iroquois, N. 21° 17′, W. 108° 22′	29.88	758.9	81	27.2	78	e.			3		2		se.	0	0	h'vy	sse.	fair.
Kearsage, Norfolk, Va.	30.03	762.7	76	24.4	100	calm			0		10		calm					misty.
Lackawanna, Callao, Peru*	30.03	762.7	60	15.6	94	se.			1		10							cloudy.
Lancaster, Villafranca, France*	29.92	760.0	82	27.8	83	ssw.			1		2		calm	0	0	sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	30.22	767.6	51	10.6	93	sse.			2		5		sw.			sm'h		fair.
Michigan, Chicago, Illinois	29.78	756.4	73	22.8	81	sw.			2		5							fair.
Minnesota, off New York, N. Y.	30.08	764.0	74	23.3	81	wsw.	3	1.3			5		wsw.					
Monocacy, N. 37° 27′, E. 126° 33′	29.73	755.1	83	28.3	83	n.			3		10		calm					cloudy.
New Hampshire, Newport, R. I.	30.07	763.8	71	21.7	100	wsw.			5		5?		sw.			sm'h		overcast.?
Nipsic, Villafranca, France*	29.92	760.0	79	26.1	74	ssw.			1		2					sm'h		clear.
Onward, Callao, Peru†	30.15	765.8	59	15.0	94	se.			3		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.86	758.4	80	26.7	91	wsw.			2		5		sw.					fair.
Passaic, Washington, D. C.	30.03	762.7	74	23.3	100	e.			1		10							fair.
Pensacola, N. 4° 04′, W. 80° 18′*	29.88	758.9	77	25.0	86	ssw.			3		10		se.	light	light	sm'h		cloudy.
Portsmouth, N. 36° 38′, W. 3° 36′*	30.02	762.5	71	21.7	80	wsw.			3							sm'h		clear.
Powhatan, Norfolk, Va.	30.02	762.5	76	24.4	95	sse.			5		8		se.					cloudy.
Quinnebaug, Alexandria, Egypt*	29.81	757.2	81	27.2	78	nw.			4		5		nw.			sm'h		fair.
Ranger, Mare Island, Cal	29.99	761.7	60	15.6	76	sw.			3		10		sw.	0	0			overcast.
Richmond, Yokohama, Japan*	29.74	755.4	83	28.3	91	calm			0		2			0	0			fair.
Saratoga, N. 38° 33′, E. 0° 10′	29.99	761.7	78	25.6	91	ne.			1-2		2		calm	0	0	sm'h		clear.
St. Louis, League Island, Pa.	30.28	769.1	75	23.9	86	s.			2		5			0	0			fair.
Swatara, Hong Kong, China*	29.48	748.8	82	27.8	87	ssw.			1		0					sm'h		clear.
Tennessee, Portsmouth, N. H.	30.00	762.0	70	21.1	95	wsw.	3	1.3			2			0	0			hazy.
Vandalia, Portsmouth, N. H*	29.95	760.7	75	23.9	81	sw.			1		2		w.					fair.
Wabash, Boston, Mass.	30.01	762.2	72	22.2	80	sw.	12	5.4			10		sw.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska			47	8.3	92	w.			2		0					sm'h		clear.
Wyoming, Port Royal, S. C*	29.98	761.5	71	21.7	95	wnw.	9	4.0			10		ne.	0.09	2.3			overcast.
Yantic, Portsmouth, N. H.	29.95	760.7	70	21.1	75	ssw.			3		8							cloudy.
Merchant Marine.																		
Allan Line.																		
S. S. Grecian, N. 37° 33′ E. 6° 21′*	30.06	763.5	84	28.9		calm			0		1		sw.	0	0	sm'h		hazy.
S. S. Polynesian, Liverpool, England *	29.42	747.3	66	18.9		wnw.			4		9		nw.	6 h'r	6 h'r			showery.
S. S. Scandinavian, Boston, Mass	29.73	755.1	71	21.7		ssw.			1		0			0	0			blue sky.
American Steamship Company.																		
S. S. Indiana, Philadelphia, Pa.†	30.23	767.8	83	28.3	95	s.			3		2		s.					fine.
S. S. Lord Clive, N. 40° 21′ W. 63° 55′*†	30.10	764.5				wsw.			3		1		wsw.	0	0	sl't	sw.	fine.
S. S. Lord Gough, N 49° 43′ W. 42° 24′	29.89	759.2	60	15.0		sw.			4		8		sw.	7 h'r	7 h'r	sm'h	w.	cloudy.
S. S. Ohio, Philadelphia, Pa.†	30.01	762.2	76	24.4	95	var.			2		4							fair.
Amsterdam Line.																		
S. S. Jason, N. 48° 37′, W. 20° 13′*	30.00	762.0	62.6	17		w.			5		10 n					5	w.	foggy.
Anchor Line.																		
S. S. Bolivia, N. 40° 29′, W. 70° 12′ *†	30.06	763.5	66	18.9		sw.			2		0			0	0	sm'h		clear.
S. S. Dorian, New York, N. Y.*	29.90	759.4																
S. S. Ethiopia, N. 55° 01′, W. 10° 27′	29.30	744.2	55	12.8	100	n.			6		5		n.	10 h'r	10 h'r	h'vy	nw.	
Atlas Line.																		
S. S. Ailsa, N. 17° 06′, W. 75° 45′†	30.12	765.0	84	28.9	83	ene.			5		2		ene.	sh'rs	shr's	mod.	ene.	fair.
S. S. Alene, Savanilla, U. S. C.†	29.89	759.2																
S. S. Alpin, N. 16° 00′, W. 71° 36′	29.99	761.7				ene.			4		2		ene.	¼ h'r	¼ h'r		ene.	
S. S. Antillas, N. 17° 48′ W. 69° —†	29.85	758.2	86	30.0		nw.			1		2		nw.	0	0			clear.
British Meteorological Office.																		
Auckland, S. 42° 42′, E. 54° 47′	29.80	756.9	48	8.9	100	nw.			5		10							foggy.
S. Baroda, N. 8° 49′, W. 25° 18′	30.09	764.3	78.6	25.9	82	wnw.			1		4							d. clouds.
S. S. Cipero, N. 35° 47′, W. 38° 36′	30.47	773.9	79.0	26.1	73	ssw.			2		2							blue sky.
Bk. Commewyne, N. 50° 58′, W. 18° 42′	30.09	764.3	58.8	14.9	70	w.			4		10							overcast.
S. S. City of Agra, S. 40° 40′, E. 24° 32′	29.72	754.9	62	16.7	?	w.			4		7							d. clouds.
S. S. Gordon Castle, N. 42° 32′, W. 49° 00′	30.17	766.3	68.8	20.4	90	sse.			1		4							misty.
S. S. Humboldt, S. 34° 37′, W. 58° 04′	30.31	769.9	48.5	9.2	77	sw.			3		4					sm'h		d. clouds.
Bkt. May Hulse, N. 42° 23′, W. 35° 33′	30.35	770.9	75	23.9	85	sw.			4		3							blue sky.
S. S. Minho, S. 21° 21′, W. 40° 05′	30.14	765.5	72.4	22.4	92	n.			4		4							d. clouds.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Meteorological.—Continued.																		
S. Oamarn, N. 15° 00′, W. 25° 35′	30.09	764.3	80.5	26.9	78	ne.			3-4		4							d. clouds.
S. S. Rosetta, N. 5° 44′, E. 87° 41′	29.84	757.9	80.5	26.9	87	sw.			4		10							d. clouds.
California and Mexican Steamship Company.																		
S. S. Mexico, Guaymas, Mexico*†	29.86	758.4	85	29.4	96	calm			0		0							clear.
Cromwell Line.																		
S. S. Hudson, New York, N. Y†	30.16	766.1	76	24.4		nw.			2		0			0	0			clear.
Cunard Line.																		
S. S. Bothnia, N. 47° 43′, W. 34° 00′	30.08	764.0	68	20.0	90	wsw.			4		mist			7 h'r	7 h'r		wsw.	showery.
S. S. Marathon, N. 35° 02′, E. 17° 09′			80	26.7		e.			1		0			0	0	sm'h	e.	clear
S. S. Scythia, Liverpool, Eng	29.54	750.3	71.5	21.9	87	w.			3		5		w.	10 h'r	10 h'r			fine.
Donaldson Line.																		
S. S. Colina, N. 53° 25′, W. 18° 06′†	30.10	764.5				nnw.			6		6		nnw.			long	nnw.	cloudy.
General Trans-atlantic Company.																		
S. S. France, N. 40° 46′, W. 70° 35′†	29.99	761.7	73.4	23		ssw.			2		10 k		ssw.	0	0	sm'h	ssw.	hazy.
Hamburg American Packet Company.																		
S. S. Cimbria, N. 42° 44′, W. 50° 02′	30.10	764.5	71	21.7		wsw.			3		10		wsw.	0	0	sm'h	wsw.	foggy.
S. S. Gellert, N. 49° 59′, W. 24° 30′	30.02	762.5	68	20.0		w.			5		1		w.	0	0	long	w.	clear.
S. S. Herder, New York, N. Y*	29.71	754.6	87	30.6		wsw.			1		1		sw.	0	0			clear.
S. S. Silesia, N. 58° 46′, W. 5° 15′	29.49	749.0	60.2	15.7		ese.			3		5		se.	0	0	2	se.	fair.
S. S. Vandalia, N. 41° 21′ W. 57° 52′*	30.17	766.3	72.3	22.4		nnw.			4		0			0	0	mod.	nnw.	clear.
S. S. Westphalia, N. 49° 18′ W. 43° 20′	29.82	757.4	64	17.8	88	ssw.			3		9		sw.	0	0	mod.	sw.	misty.
Inman Line.																		
S. S. City of Berlin, N. 48° 30′, W. 40° —′	29.93	760.2				wsw.			2		9		wnw.	5½ h'r	5½ h'r	mod.	wsw.	
Lampert and Holt's Line.																		
S. S. Archimedes, N. 45° 25′ W. 33° 00′†	30.31	769.9				sw.			4		1		sw.	0	0	mod.	wsw.	clear.
S. S. Hevelius, S. 31° 18′, W. 40° 30′.*†	30.30	769.6	55	12.8		sse.			6		4		sse.	0	0	long	se.	clear.
Leyland Line.																		
S. S. Bulgarian, N. 51° 40′, W. 12° 22′ *	29.92	760.0				nw.			6		2		nw.	2 h'r	2 h'r	high	nw.	
Mallory Line.																		
S. S. City of San Antonio, Matanzas, Cuba, W. 1*†	30.14	765.5				calm			0		2			2 h'r	2 h'r			fair.
S. S. Colorado, N. 38° 47′, W. 74° 25′†	30.08	764.0	79	26.1		e.			1		5		e.	shr's	shr's	sm'h		hazy.
S. S. San Marcos, N. 33° 22′, W. 77° 58′	29.97	761.2				s.												fine.
Mediterranean and New York Steamship Co.																		
S. S. Archimede, Marseilles, France*†	30.03	762.7	76	24.4	82	ssw.			2		8		ssw.	0	0			fair.
Merchants' Express Line.																		
S. S. Freja, N. 47° 28′, W. 41° 10′†	30.14	765.5	70	21.1	95	sw.			5		5			4 h'r	4 h'r		w.	foggy.
S. S. Hermod, N. 40° 32′ W 56° 50′ †	30.21	767.3	77.0	25.0		n.			1		2		nw.	0	0	mod.	se.	fair.
Merchants' Steamship Company.																		
S. S. Glenapp, S. 2° 00′, W. 41° 30′	29.95	760.7				ese.			4		3		ese.	0	0	h'vy	ese.	
Morgan Line.																		
S. S. Chalmette, Algiers, Louisiana†	30.06	763.5	81	27.2		ne.			1		10			0	0			cloudy.
S. S. New York, N. 39° 40′, W. 74° 00′ †	30.20	767.1	78.0	25.6		s.			1		8		s.	0	0	sm'h		smoky.
National Line.																		
S. S. Canada, N. 47° 34′, W. 30° 55′†	30.14	765.5				wsw.			2		7		sw.			mod.	wsw.	
S. S. Denmark, N. 49° 18′ W. 10° 15′	29.81?	757.2?	69	20.6		wnw.			6		5		nnw.	0	0	long	w.	fine.
S. S. England, N. 44° 35′, W. 40° 49′	30.07	763.8				w.			6		2		w.	6 h'r	6 h'r	mod.	w.	clear.
S. S. Erin, Liverpool, Eng	29.53	750.0	61	16.1		nw.			6		6		nw.	4 h'r	4 h'r			fine.
S. S. Helvetia, N. 40° 47′, W. 57° 53′	30.15	765.8	70	21.1		nw.			1				nw.	0	0	slight	nw.	fine.
S. S. The Queen, N. 43° 42′, W. 39° 56′	30.09	764.3	74	23.3		sw.			6		5?		calm	2 h'r	2 h'r	mod.	sw.	clear?
New York, Havana and Mexican Mail.																		
S. S. City of Alexandria, New York, N. Y†	30.07	763.8	74	23.3	90	s.			2		0							fair.
S. S. City of Puebla, Havana, Cuba, W. I			79	26.1		s.			1		8		ne.					cloudy.
S. S. City of Washington, N. 35° 43′, W. 75° 03′*†	30.20	767.1	79	26.1		var.			4		10		var.	h'vy	h'vy	mod.	ene.	raining.
New York Herald Weather Service.																		
S. S. Amsterdam, N 49° 42′, W. 11° 50′*	30.05	763.3	68	20.0		wnw.			4-5								wsw.	rainy.
S. S. Lone Star, N. 35° 42′, W. 75° 18′	30.07	763.8	79	26.1		s.			2								s.	squally.
North German Lloyd																		
S. S. America, N. 49° 46′, W. 6° 41′*	29.92	760.0	68.0	20.0	95	wnw.			6		8		wnw.	0	0	high	nw.	overcast.
S. S. Graf Bismarck, N. 9° 07′, W. 26° 21′	30.11	764.8	80.6	27.0		sse.			3		2		wsw.	0	0	mod.	se.	clear.
S. S. Hohenslaufen, N. 43° 51′, W. 41° 47′	30.05	763.3	77.0	25.0		sw.			6		7		sw.	4 h'r	4 h'r	0	sse.	cloudy.
S. S. Koln, N. 40° 29′, W. 66° 21′*	30.12	765.0			60	w.			3		8		sw.	0	0	slight	s.	hazy.
S. S. Leipzig, N. 40° 59′, W. 53° 49′	30.14	765.5	78.0	25.6	100	sw.			3		8		w.	0	0	sm'h		fair.
S. S. Main, N. 50° 11′, W. 35° 48′	29.84	757.9				w.			5-6		10		w.	rain	rain	long	wnw.	cloudy.
S. S. Neckar, N. 49° 31′ W. 7° 45′	30.01	762.2	60.0	15.6	88	wnw.			6		8		wnw.	rain	rain	r'gh	nw.	fair.
S. S. Ohio, Baltimore, Md	30.06	763.5				se.			1		2		se.	0	0			fair.
S. S. Salier, N. 42° 47′, W. 58° 05′	30.17	766.3	59.0	15.0		w.			3		0			0	0	sm'h	wnw.	clear.
Occidental and Oriental Steamship Company.																		
S. S. Arabic, N. 42° 49′, W. 134° 50′†	30.10	764.5	62	16.7	88	wnw.			4		8		wnw.	0	0	mod.	nnw.	fair.
S. S. Belgic, N. 31° 04′, E. 131° 02′†	30.04	763.0	83	28.3	75	s.			4		2		s.	0	0	mod.	sw.	clear.
S. S. Coptic, N. 43° 55′, E. 160° 13′	29.73	755.1	60.0	15.6	?	ne.			3		8		ne.	8 h'r	8 h'r	3	e.	d. clouds.
S. S. Gaelic, N. 22° 26′, E. 115° 25′†	29.80	756.9	81	27.2	91	ssw.			3		4		sw.			sm'h		clear.
Ocean Steamship Company.																		
S. S. City of Augusta, Savannah, Ga.†	30.06	763.5				nnw.			2		4		nw.	0	0			clear.
S. S. Seminole, Off Cape Cod, Mass†	30.02	762.5	70	21.1	90	sw.			4		hz		sw.			sm'h	sw.	hazy
Oregon Railway and Navigation Company.																		
S. S. Oregon, San Francisco, Cal.†	29.97	761.2	52	11.1	93	wsw.			1		10		w.					foggy.
Pacific Coast Steamship Company.																		
S. S. Ancon, San Francisco, Calf	29.90	759.4	54	12.2	93	wsw.			2		10		w.					cloudy
S. S. City of Chester, Off Point Sur, Cal			61	16.1	88	nw.			3		10		nw.			mod.	nw.	light fog.
S. S. Idaho, San Francisco, Calf	29.95	760.7	55	12.8	87	nw.			3		10		nw.	0	0	sm'h		cloudy.
S. S. State of California, N. 37° 59′ W. 123° 10′†	29.95	760.7	53	11.7	?	nw.			4		10		wnw.			short	nw.	overcast.
S. S. Victoria, N. 44° 45′, W. 124° 42′ †	29.82	757.5	51	10.6	100	sw.			1		5?			0	0	sm'h		overcast?
Pacific Mail Steamship Company.																		
S. S. Australia, S. 36° 12′ E. 175° 20′	30.10	764.5	59	15.0	88	sse.			4		5?		se.	0	0	sm'h		clear?
S. S. City of New York, Sydney, N. S. W. †	30.22	767.6	59	13.3	99	calm			0		0			0	0			clear.
S. S. City of Pekin, N. 43° 15′, E. 158° 20′†	29.89	759.2	67	19.4	88	e.			2		10		se.	0	0	small	e.	cloudy.
S. S. City of Rio de Janeiro, N. 31° 40′, W. 117° 31′ *†	30.12	765.0	65	18.3	89	wnw.			3		0		nw.	0	0	light	wnw.	hazy.
S. S. City of Tokio, N. 29° 05′, E. 127° 33′ †	29.83	757.7	79	26.1	?	s.			1		5		se.	1 h'r	1 h'r	small	s.	fine.
S. S. Colima, N. 14° 18′, W. 92° 55′†	29.97	761.2	81	27.2	78	ene.			3		4		e.	0.07	1.8	mod.	se.	clear.
S. S. Colon, Aspinwall, Panama.†	29.99	761.7	82	27.8		calm			0		0		nnw.	0	0	sm'h		cloudy.
S. S. Costa Rica, N. 16° 50′ W. 101° 00′*	29.80	758.4	82	27.8	79	ene.			4		5		ene.	rain	rain	h'vy	sw.	fair.
S. S. Grenada, La Libertad, San Salvador†	29.91	759.7	79	26.1	82	e.			1		5?		e.	0	0	sm'h	wsw.	clear?
S. S. Zelandia, S. 18° 34′, W. 172° 49′	30.03	762.7	80	26.7	91	e.			2		0					sm'h		clear.
Quebec S. S. Company.																		
S. S. Muriel, Trinidad, W. I	30.07	763.8	79	26.1		calm			0		10			7 h'r	7 h'r	sm'h		overcast.
Red D Line.																		
S. S. Valencia, La Guayra, Venezuela*†	30.20	767.1	84	28.9	75	ene.			2		3		se.	0	0	sm'h	ne.	fine.
Red Star Line.																		
S. S. Belgenland, Philadelphia, Pa.†	30.19	766.8	73	22.8	85	s.			3		9		s.	0	0			
S. S. Pennland, N. 41° 44′, W. 60° 02′	30.17	766.3				sw.			3		1		sw.	0	0	sm'h		hazy.
S. S. Rhynland, N. 49° 25′ W. 15° 00′	30.38	771.0	66	18.9	68	nw.			6		8		nw.	0	0	high	wnw.	stormy.
S. S. Switzerland, N. 49° 14′ W. 49° 19′†	30.29	769.4				s.			2		8		ssw.	2 h'r	2 h'r	long	ssw.	fair.
S. S. Vaderland, N. 48° 50′, W. 18° 12′	30.04	763.0	64	17.8	83	w.			4		10		wnw.	0	0	mod.	w.	overcast.
S. S. Waesland, N. 41° 25′, W. 59° 21′	30.14	765.5	75	23.9	94	nw.			3		0			0	0	sm'h	nw.	clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. Edam, N. 50° 11′, W. 2° 53′	29.66	753.4	66.3	19.1	92	sw.			6		8		wsw.	light	light	high	w.	hazy.
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, Kingston, Jamaica	30.01	762.2	84	28.9		e.			1		5		ene.	o	o			fair.
STATE LINE.																		
S. S. State of Florida, N. 42° 44′, W. 46° 27′	30.07	763.8	71	21.7		n.			3		10		ne.	6 h'r	6 h'r		sw.	cloudy.
S. S. State of Indiana, N. 41° 23′, W. 66° 04′†	30.34	770.6	75	23.9		w.			2		2		w.	o	o	sm'h		fair.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y.†	30.30	769.6	77.9	25.5		wsw.			1		1		wsw.	o	o			clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 40° 24′, W. 57° 09′	30.16	766.1	76	24.4					3		1			o	o	3	se.	
WHITE STAR LINE.																		
S. S. Adriatic, N. 44° 37′, W. 52° 58′*†	30.21	767.3	62	16.7	94	w.			3		2		sw.	o	o	gentle	s.	clear.
S. S. Baltic, N. 50° 53′ W. 23° 48′	29.97	761.2	58	14.4	94	ssw.			5		10		ssw.	5 h'r	5 h'r	4	con.	raining.
S. S. Celtic, N. 41° 44′, W. 56° 43′†	30.22	767.6	71	21.7	90	nnw.			3		2		n.	o	o	sm'h		fine.
S. S. Republic, Liverpool, Eng			57	13.9	81	w.			5		10			sh'rs	sh'rs			raining.
WILSON LINE.																		
S. S. Otranto, N. 49° 49′ W. 6° 32′†	30.09	764.3	68	20.0		wnw.			6		8		wnw.			cross	wnw.	cloudy.
S. S. Romano, New York, N. Y.	29.98	761.5	78	25.6		sw.			1		1			o	o			fine.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa.†	30.10	764.5	76	24.4		s.			1		8			o	o			
MISCELLANEOUS.																		
Bk. Adelaide, N. 31° 20′, W. 53° 00′*†	30.34	770.6	84	28.9		sse.			3		9		s.	3 h'r	3 h'r	light	ese.	threatening
Schr. Anna R. Holton, N. 35° 29′, W. 74° 46′†	30.21	767.3	82	27.8		wsw.			4		9		wnw.	6 h'r	6 h r	mod	se.	cloudy.
Bk. Anna Thormann, S. 27° 36′ E. 105° 06′	30.15	765.9	60.6	15.9	83	nw.			6		3 k:n		nw.	shr's	shr's	mod.	sw.	fair.
S. S. Antonio Lopez, N. 33° 41′, W. 43° 05′*	30.39	771.9	77.5	25.3	86	se.			3		3			o	o	mod.		clear.
Bk. Argonaut, N. 40° 44′ W. 69° 11′*†	30.11	764.8	65.1	18.4		ssw.			2		10		ssw.	o	o	sm'h		hazy.
Bk. Aureola, N. 12° 09′, W. 43° 50′*†	30.00	762.0	75	23.9		wsw.			3		2		wsw.	4 h'r	4 h'r	h'vy	sw.	clear.
Bk. B. F. Watson, N. 19° 56′ W. 36° 48′†	30.12	765.0	80	26.7		ene.			5		5		e.	4 h'r	4 h'r	mod.	e.	fair.
Bk. Bergenseren, N. 43° 38′, W. 37° 30′†	30.16	766.1				ssw.			5		1		ssw.	o	o	4	ssw.	hazy.
Bk. Bremen, N. 51° 13′, W. 31° 10′*†	29.89	759.2				wsw.			6		10		wsw.	6 h'r	6 h'r	cross	ssw.	foggy.
Bk. Cato, Malmö, Sweden*†	30.49	774.4				sse.			4									clear.
Bk. Celestina, N. 14° 32′, W. 25° 09′*†	30.04	763.0				ne.			2		4		ne.	o	o	long	w.	
S. Dora, S. 11° 50′, W. 29° 24′†	30.27	768.8	80.6	27.0		ese.			4–5	3 ck		sse.		o	o	mod.	se.	clear.
Schr. Edith R. Seward, N. 38° 26′, W. 76° 18′*†	30.09	764.3	76	24.4		w.			2		1		wsw.	½ h'r	½ h'r			clear.
S. E. J. Spicer, N. 41° 00′, W. 58° 00′*	30.18	766.6	74	23.3		n.			4		0			o	o	sm'h		clear.
S. Enoch Train, Off Lizard, Eng†	30.10	764.5				nw.			6		4		nw.	sh'rs	sh'rs	sm'h		fine.
Bk. Essex, N. 12° 25′ E. 60° 26′*†	29.70	754.4	89	31.7		s.			1		0			o	o	sm'h		clear.
Bk. Franklin, N. 57° 40′, E. 5° 25′*†	30.14	765.5				se.			3		8			o	o	mod.		foggy.
Bk. Freya, N. 38° 21′, W. 66° 21′			84	28.9		sse.			3		1		s.	o	o	sm'h		clear.
S. Glendon, N. 35° 20′ W. 48° 45′†	30.31	769.9	86	30.0		sse.			3		9		s.	o	o	sm'h		fair.
Bk. Godefroy, N. 30° 47′ W. 19° 11′	30.32	770.1	73.4	23.0	75	nne.			5		5		nne.	1 h'r	1 h'r	mod.		fair.
S. Grecian, N. 11° 50′, E. 112° 25′*†	29.85	758.2	84	28.9		ssw.			2		0			o	o	sm'h		clear.
Bk. Gronsvaer, N. 21° 20′, W. 36° 35′†	30.14	765.5				ese.			6		7		ese.	2 h'r	2 h'r	mod.	ese.	misty.
Bk. Hattie G. McFarland, Bath, Maine*†	29.95	760.7	66	18.9		ssw.			3		9		nw.	o	o			threatening.
Schr. Hattie Weston, N. 28° 00′, W. 70° 46′*†	30.26	768.6	83	28.3		sse.			2		8		s.	1 h'r	1 h'r	mod.	se.	cloudy.
Bk. Heinrich & Tonio, N. 48° 05′, W, 15° 20′*†	30.40	772.1	63	17.2		nnw.			6		5 ck		nnw.	5 h'r	5 h'r	mod.	nw.	fair.
Schr. Henry Denison, N. 34° 19′, W. 74° 05′†	29.96	761.0				se.			9		10		sw.			high	s.	heavy rain.
S. Ivy, S. 45° 56′, W. 97° 08′†	30.44	773.2	42	5.6		nnw.			4		10		nnw.	o	o	mod.	w.	cloudy.
S. Ismir, N. 2° 19′, E. 106° 56′†	29.90	759.4				e.			2		5		e.	1 h'r	1 h'r	sm'h		fine.
Schr. Jennie N. Huddell, N. 40° 35′, W. 72° 30′†	30.05	763.3	77	25.0	90	sw.			1		2		sw.	o	o	short	ssw.	hazy.
Bk. Johanne, N. 40° 50′, W. 68° 42′*†	30.10	764.5	70	21.1		ssw.			1		0			o	o	sm'h		dense fog.
Bg. John Wesley, Guanatamo W. I.*†	29.95	760.7				wnw.			1		8			o	o			cloudy.
Bk. Joseph A. Ropes, S. 39° 17′, E. 23° 05′*†	29.90	759.4	66	18.9	84	wnw.			7		8		wnw.	3 h'r	3 h'r	h'vy	wnw.	cloudy.
Bkt. Josephine, Havana, Cuba, W. I.†	30.02	762.5	81	27.2	78	sse.			1		0			o	o			clear.
S. S. Lamperts, N. 36° 32′, E. 0° 45′*	30.05	763.3	76.8	24.9	86	wsw.			6		6 k		s.					heavy mist.
Light House Tender, Laurel, Key West, Fla†	30.07	763.8	84	28.9		sse.			2		10		sse.	o	o			cloudy.
Bk. Liberia, N. 38° 06′, W. 72° 37′*	29.94	760.5	82	27.8	83	sw.			4		4			o	o			squally.
S. S. Madrid, River Tyne, Eng*†	29.70	754.4				e.			3		6			o	o			overcast.
Schr Maggie Abbott, Port au Prince, Hayti, W. I†	30.03	762.7												o	o			clear.
S. Minnie N. Gerow, N. 37° 10′, W. 10° 30′*†	30.22	767.6				nne.			5		10		n.			sm'h	nw.	fair.
S. M. P. Grace, S. 26° 50′, W. 97° 00′*	30.25	768.3	62	16.7		s.			3				s.	o	o	sm'h	se.	clear.
Bk. National Eagle, N. 42° 00′, W. 21° 43′†	30.37	771.4				nnw.			1		3		nnw.	o	o	mod.	nne.	fair.
S. S. Nebo, N. 35° 51′, W. 8° 20′*†	30.03	762.7				s			6		3		sw.	o	o	short	ssw.	clear.
S. Oracle, N. 37° 39′, W. 55° 20′*	30.21	767.3	81	27.2	91	ssw.					9 h		sw.	7 h'r	7 h'r	mod.	sw.	cloudy.
S. Orealla, N. 13° 34′, W. 33° 56′*	29.95	760.7				ne.			3		1		ne.	o	o	cross		clear.
Bk. Rosebud, S. 29° 39′ E. 57° 00*†	30.45	773.4	62	16.7	?	e.			4		5		e.	o	o	sm'h		fine.
S. St. Francis, N. 35° 37′, W. 41° 25′†	30.36	771.1	79	26.1		se.			1		0			o	o	sm'h	ne.	fine.
Schr. S. B. Hubbard, Seguin, Maine†	29.99	761.7	65	18.3		sw.			5		8		ssw.	o	o	long	s.	cloudy.
Bk. Sunbeam, N. 39° 37′ W. 33° 00′†	30.55	776.0	78	25.6	81	sw.			3		2		wsw.	o	o	sm'h		clear.
S. S. Sunbeam, N. 51° 14′, W. 1° 53′	29.78	756.4	64.5	18.1	87	s.			6		5		sw.			sm'h		d. clouds.
S. Sovereign of the Sea, S. 48° 35′, W. 64° 12′*†	29.76	755.9	45	7.2	92	wsw.			5		2		w.	o	o	r'gh	s.	fair.
Bg. Teneriffe, N. 32° 50′, W. 76° 00′	29.92	760.0				s.			5							mod.		
U.S.F.C.S.S. Fish Hawk, New Bedford, Mass†	30.24	768.1	74	23.3	90	ssw.			3		8		sw.	o	o			cloudy.
Schr. Victor Ping, N. 27° 25′, W. 66° 20′*†	30.12	765.0				nne.			3		2		ne.			mod.	ene.	fair.
Bk. Vincenzo Accame N. 37° 34′, W. 55° 50′†	30.43	773.0	82.4	28.		w.			6		0							clear.
Schr Viola Reppard, Tybee Roads, Ga†	29.99	761.7	78	25.6		nnw.			4		2		n.	o	o			
Bg. Wauburn, N. 19° 00′ W. 74° 48′*†	30.10	764.5				sw.			3		0					sm'h	e.	
Bk. Warden Law, N. 58° 44′, W. 7° 07′*						n.			2		10		n.	o	o	sm'h	wnw.	fair.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 16, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours	.....	.....	30.09	764.3	82.0	27.8	79	se.	.....	.....	2	.....	0	.....	.....	inap.	inap.	fair	Bouvier.
Alglers	.....	.....	30.07	763.7	78.4	25.8	73	ne.	.....	.....	2	.....	0	.....	.....	0	0	clear	Thève.
La Calle	.....	.....	30.04	763.0	88.9	31.6	87	nne.	.....	.....	1	.....	0	.....	.....	0	0	clear	Fonfrède.
Tanis	.....	.....	30.03	762.8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.12	765.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Perès.
Tebessan	.....	.....	30.11	764.9	88.9	31.6	30	ssw.	.....	.....	4	.....	4	.....	.....	0	0	cloudy	Rigaud.
Geriville	.....	.....	.....	.....	94.6	34.8	10	w.	.....	.....	5	.....	3	.....	.....	inap.	inap.	cloudy	Lonchamp.
Laghouat	.....	.....	30.15	765 9	102.2	39.0	34	se.	.....	.....	2	.....	1	.....	.....	0	0	very fair	Abraham.
Biskra	.....	.....	30.11	764.9	99.7	37.6	23	se.	.....	.....	1	.....	0	.....	.....	0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.72	754.9	29.81	757.2	55.4	13.0	73	n.	21	9.4	.....	.....	9	.....	.....	0.02	0.5	.....	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.30	744.3	29.84	757.8	70.5	21.4	70	e.	.....	.....	1	.....	10	.....	.....	0.299	7.6	.....	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.99	736.3	29.72	754.9	72.3	22.4	73	w.	1.3	0.6	.....	.....	10	.....	.....	0.055	1.4	.....	Dr. Wierzbiski.
Eperies	28.96	735.6	29.81	757.1	69.8	21.0	84	calm	.....	.....	0	.....	10 ns	.....	.....	0.087	2.2	.....	Julius Mikolik.
Gratz	28.62	727.0	29.83	757.6	67.3	19.6	74	s.	.....	.....	2	.....	7	.....	.....	0.020	0.5	.....	Andreas Rospini.
Hermannstadt	28.41	721.7	29.78	756.5	72.3	22.4	73	s.	.....	.....	3	.....	10	.....	.....	0.252	6.4	thnd'rstorm.	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.55	725.1	29.85	758.1	65.5	18.6	79	wsw.	.....	.....	1	.....	8	.....	.....	0.831	21.1	gloomy	The Staff.
Lemberg	28.83	732.2	29.75	755.7	78.4	25.8	51	se.	.....	.....	3	.....	2	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.75	755.7	29.86	758.4	79.7	26.5	63	wnw.	.....	.....	2	.....	8	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.30	744.2	29.74	755.4	82.8	28.2	54	se.	.....	.....	1	.....	5	.....	.....	1.035	26.3	.....	Joseph Midlinszky, S. J.
Szegedin	29.54	750.2	29.81	757.1	68.7	20.4	87	calm	.....	.....	0	.....	3	.....	.....	0.138	3.5	thunder	Karl Stancel.
Trieste	29.75	755.7	29.85	758.3	79.5	20.4	59	w.	.....	.....	1	.....	6	.....	.....	0.134	3.4	.....	Royal Academy.
Vienna	29.15	740.3	29.84	757.9	69.6	20.9	67	w.	.....	.....	2	.....	9	.....	.....	0.209	5.3	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.55	750.6	29.65	753.1	60.2	15.7	96	nne.	13	5.8	.....	.....	10	.....	.....	0.205	5.2	raining	W. Boswell
Armagh, Observatory	29.54	750.3	29.70	755.9	59.1	15.1	87	nw.	7	3.1	.....	.....	10	.....	.....	.....	.....	overcast	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.66	753.4	60.5	15.8	70	wnw.	17	7.6	.....	.....	4	.....	.....	.....	.....	d. clouds	John Hartnup.
Bolton, Sharples	29.11	739.4	29.03	752.6	63.0	17.2	67	wnw.	6	2.7	.....	.....	6	.....	.....	.....	.....	d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.23	742.4	29.62	752.3	62.0	16.7	54	nw.	.....	.....	2	.....	7	.....	.....	0.02	0.5	d. clouds	J. McLandsborough.
Bridgetown, Barbadoes	30.01	762.2	30.04	763.0	83.0	28.3	74	ne.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	29.83	757.7	63.0	17.2	66	nw.	.....	.....	0.4	.....	8	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.50	749.3	29.63	752.6	55.5	13.1	85	nnw.	.....	.....	1	.....	8	.....	.....	.....	.....	raining	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.60	751.8	29.83	757.7	61.0	16.1	70	wnw.	.....	.....	5	.....	6	.....	.....	.....	.....	squally	The Staff.
Fort Napier, Natal	27.64	702 0	29.85	758.2	79.3	26.3	17	e.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.74	755.4	29.97	761.2	78.0	25.6	82	w.	.....	.....	1	.....	6	.....	.....	.....	.....	.....	Sergt. John Robinson.
Gibraltar, Mediterranean	29.98	761.5	30.03	762.7	79.0	26.1	80	e.	.....	.....	1	.....	0	.....	.....	.....	.....	blue sky	Corpl. F. Norris, A. H.C
Glasgow, Observatory	29.46	748.3	29.66	753.4	64.6	18.1	73	wnw.	.....	.....	2	.....	8	.....	.....	.....	.....	d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.45	748.0	29.62	752.3	61.7	16.5	70	nw.	.....	.....	1	.....	8	.....	.....	.....	.....	rain & mist.	The Staff.
Guernsey	29.51	749.5	29.80	756.9	61	16.1	70	w.	.....	.....	5	.....	8	.....	.....	.....	.....	overcast	A. Collenette, F. M. S.
Kew, Observatory	29.60	751.8	29.64	752.8	59.9	15.5	70	wnw.	9	4.0	.....	.....	7	.....	.....	.....	.....	d. clouds	The Staff.
Leicester, Museum	29.38	746.2	29.63	752.6	64.0	17.8	52	n.	.....	.....	1	.....	4	.....	.....	.....	.....	d clouds	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.02	762.5	88.0	31.1	67	nw.	.....	.....	2	.....	0	.....	.....	.....	.....	blue sky	H. Keene, A. H. C.
Nassau, Bahamas	30.17	766.3	30.21	767.3	80.0	30.0	70	se.	.....	.....	2	.....	4	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.13	739.9	29.64	752.8	66.0	15.6	68	nw.	.....	.....	3	.....	6	.....	.....	.....	.....	d clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.42	747.3	29.65	753 1	57.9	14.4	71	n.	.....	.....	3	.....	10	.....	.....	.....	.....	misty	The Staff.
Plymouth	29.08	753.9	29.76	755.9	63.2	17.3	71	wsw.	.....	.....	5	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.72	754.9	59.1	15.1	91	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	foggy	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.78	756.4	29.84	757.9	86.0	30.4	55	sw.	.....	.....	1	.....	1	.....	.....	.....	.....	d. clouds	W. H. Lyne.
Sheffield	29.36	745.7	29.64	752.8	63.8	17.7	65	ene.	.....	.....	1	.....	6	.....	.....	0.01	0.3	d. clouds	W. F. Cooper.
Stilloth Rectory	29.62	752.3	29.65	753.1	66.2	19.0	68	wnw.	.....	.....	2	.....	3	.....	.....	0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.66	753.4	62.0	16.7	61	w.	7	3.1	.....	.....	3	.....	.....	.....	.....	d. clouds	I. New.
Straifield Turgiss	.....	.....	.....	.....	59.7	15.4	73	nw.	.....	.....	2	.....	8	.....	.....	.....	.....	showery	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.82	757.4	29.83	757.7	61	16.1	70	w.	.....	.....	7	.....	8	.....	.....	.....	.....	gloomy	W. Newcombe.
Valencia, Observatory	29.89	759.2	29.92	760.0	59.4	15.2	67	nw.	17	7.6	.....	.....	2	.....	.....	.....	.....	blue sky	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.07	763.8	30.11	764.8	64	17.8	88	se.	6	2.7	.....	0	8 s	.....	se.	0.350	8.9	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.04	763.0	30.10	764.5	62	16.7	93	se.	4	1.8	.....	2 k	8 ks	se.	se.	0.01	0.3	cloudy	G. A. Blair.
Father Point, Quebec*	29.98	761.5	30.00	762.0	53	11.7	93	w.	5	2.2	.....	.....	10 s	.....	calm	0	0	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.25	742.9	30.06	763.5	56	13.3	96	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	James Stewart.
Halifax, N. S*	30.00	762.0	30.13	765.3	61	16.1	100	e.	2	0.9	.....	.....	0	.....	.....	0.030	0.8	dense fog	A. Allison.
Kingston, Ontario*	29.55	750.6	29.87	758.7	74	23.3	82	s.	6	2.7	.....	2 ck	5 k	se.	se.	0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.71	754.6	29.91	759.7	64	17.8	97	ne.	4	1.8	.....	.....	fg	.....	.....	0.04	1.0	light rain	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.14	740.1	29.80	756.9	68	20.0	93	se.	3	1.3	.....	.....	10 n	.....	se.	0.11	2.8	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.19	741.4	29.86	758.4	68	20.0	100	sw.	3	1.3	.....	.....	10 n	.....	.....	0.04	1.0	light rain	H. Morgan.
Port Stanley, Ontario	29.22	742.2	29.84	757.9	69	20.6	97	sw.	3	1.3	.....	.....	10 ks	.....	sw.	0.22	5.6	cloudy	M. Payne.
Quebec, Quebec*	29.66	753.4	29.97	761.2	63	17.2	90	e.	.....	.....	3	0	5 s	.....	e.	0.07	1.8	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.40	746.7	29.84	757.9	68	20.0	70	n.	4	1.8	.....	.....	5 ks	.....	w.	0.01	0.3	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.12	739.6	29.80	756.9	68	20.0	93	calm	0	0	.....	.....	10 s	.....	.....	0.10	2.5	heavy rain	
St. Andrews, N. B	29.99	761.7	30.04	763.0	56	13.3	93	se.	1	0.4	.....	.....	fg	.....	.....	0	0	foggy	
Sydney, C. B*	30.09	764.3	30.15	765 8	64	17.8	84	e.	1	0.4	.....	3 c	4 ks	.....	e.	0.17	4.3	fair	T. C. Hill, C. E
Toronto, Ontario*	29.49	749.0	29.86	758.4	67	19.4	97	ne.	3	1.3	.....	.....	10 ks	.....	w.	inap.	inap.	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.04	763.0	30.10	764.5	63	17.2	100	s.	3	1.3	.....	.....	fg.	.....	.....	0	0	foggy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.58	725.9	29.94	760.5	65.5	18.6	100	w.	.....	.....	2	10kn;s	0	wsw.	.....	0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	30.09?	764.3?	30.34?	770.6?	61	16.1	82	ne.	.....	.....	.....	0	0	.....	.....	0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.20	767.1	30.22	767 6	62	16.7	77	wsw.	13.0	5.8	.....	0	4 k	.....	.....	0	0	hazy	C. Hansen.
Cape Town, C. G. H. Obs'y	30.28	769.1	30.31	769.9	63.2	17.3	69	sse.	19	8.5	.....	9	9	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CHINESE (*Sub-series*).																			
Hankow																			
Zi-Ka-Wei, near Shanghai	29.61	752.1	29.64	752.8	77.9	25.5	96	se.	8.5	3.8			0			1.795	43.3	clear	N. Titoushkin. M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.60	751.8	29.65	753.0	66.2	19.0	88	s.	13	6			10						
Fanöe	29.58	751.4	29.60	751.9	63.9	17.7	83	w.			4		9						Oversergent Fischer.
Godthaab, Greenland	29.73	755.1	29.77	756.2	38.8	3.8	88	sw.			2		10			0	0		Overloerer Lauridsen
Ivigtut	29.88	759.0	29.90	759.5	43.2	6.2		w.			4		10					foggy	S. Kleinschmidt.
Stykkisholm, Iceland	29.88	758.9	29.92	760.0	45.7	7.6	82	calm			0		0						
Thorshavn	29.67	753.6	29.71	754.5	54.7	12.6	93	ne.	7	3			10						A. O. Thorlacius.
Vestervig	29.48	748.8	29.57	751.1	66.6	19.2	92	sse.			2		9						Overloerer Bergh. Loerarer Oesterbol.
FRENCH.																			
Agen, Normal School	29.50	749.4	30.15	765.9	61.9	16.6	77	w.			2		kn		se.	0.728	18.5		M. Labroue, Director.
Alençon, Normal School	29.36	745.8	29.91	759.8	61.9	16.6	75	sw.			4		n	sw.	sw.	0.244	6.2		M. Nicot, Director.
Arras, Engineer School	29.48	748.8	29.74	755.4	53.6	12.0	99	ssw.			9		10 n					raining	M. Fénéon, Command't.
Avignon, Normal School	29.97	761.2	30.05	763.2	70.2	21.2	51	n.			1		5		nw.	0.134	3.4	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.35	745.5	29.89	759.2	66.7	19.3	50	sw.			2		8		w.	0.098	2.5	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.50	749.4	29.77	756.1	59.2	15.1	82	s.			3		10		w.	0.189	4.8	raining	M. Frère Eugène Maris.
Besançon, Normal School	29.08	738.5	29.95	760.6	68.4	20.2	83	ssw.			1		5		nw.	0	0	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.84	758.0	30.10	764.6	66.6	19.2	45	w.			2		10			0.051	1.3	covered	M. Rayet, Director.
Bourges, Normal School	29.42	747.2	29.95	760.8	59.9	15.5	68	sw.							sw.	0.28	7.		M. Malet, Director.
Brest, Naval Observatory	29.73	755.1	29.97	761.3	67.3	19.6	70	w.			2		10		w.	0.047	1.2	hailing	M. de Kermaree, Dir.
Caen, Normal School	29.73	755.1	29.80	757.0	55.4	13	84	w.			1		8		w.	0.10	4.	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.57	751.0	29.87	758.8	64.0	17.8	68	sw.			2		5	wsw.	w.	0.063	1.6	cloudy	M. Jadot, Director.
Charleville, Normal School	29.28	743.7	29.78	756.4	57.9	14.4	64	nnw.			3		10			0.47	12.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.70	729.0	30.02	762.6	65.8	18.8	53	w.			2		8		w	0.012	0.3	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.20	741.6	30.02	762.5	64.0	17.8	49	ssw.			3		8		ssw.	0.43	11.		M. de Villemontée, Dir.
Commercy, Normal School	28.20	716.2	29.86	758.4	61.2	16.2	79	w.			3		kn	w.	w.	0.303	7.7		Dr. Coulet, Director.
Gap, Normal School	27.43	696.7	29.88	759.0	69.1	20.6	54	s.			4	4 ck	0	s.		0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.90	734.1	29.99	761.8	71.2	21.8	31	nw.			4		3		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.16	740.6	29.91	759.6	64.4	18	53	ne.			4	c	0	s.		0	0		M. Ablard, Director.
Lamballe, Normal School					67.3	19.6	58	w.			4		2		w.	0	0	slightly cl'dy	M. Ollitrault, Director.
Lescar, Normal School	29.58	751.2	30.13	765.3	68.4	20.2	53	w.			4		8			0	0	very cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.89	759.3	30.00	761.9	63.7	17.6	76	w.			4		8		w.	0.079	2.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.02	737.1	30.05	763.4	67.1	19.5	50	wsw.			1		8 n		wnw.	0.059	1.5	very cloudy	M. André, Director.
Mans, Normal School	29.61	752.1	29.91	759.8	64.2	17.9	61	w.			4		8		w.	0.181	4.0	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.72	755.0	29.99	761.7	73.9	23.3	34	wnw.			4		5		nw.	0	0		M. Stephan, Director.
Montlouis	24.93	633.0	29.76	756.0	64.4	18.0	45	s.	16.8	7.5						0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.93	760.2	30.06	763.4	68.7	20.4	65	wnw.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.16	740.7	29.93	760.3	60.4	15.8	69	s.			1		10 n			0.413	10.5	covered	M. Hasse, Director
Nantes, Observatory	29.85	758.2	30.02	762.4	66.4	19.1	55	wnw.			2–3	0	9kn; n		wnw.	0.098	2.5		M. Larocque, Director.
Perpignan, Observatory	29.99	761.7	30.09	764.3	71.6	22.0	50	n.	15.0	6.7			10		w.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.36	542.6			40.3	4.6		w.			2		5		w.	0.008	0.2	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.00	736.6	30.04	763.0	68.0	20	40	s.			1		0			0.10	4.	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.17	639.4			42.4	5.8	90	w.			6		8		w.	0.327	8.3	¾ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.06	763.4	30.09	764.2	69.4	20.8	100	wsw.			2		10		wsw.	0.59	15.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.78	756.3	29.98	761.6	65.5	18.6	64	w.			1		5		e.	0	0	cloudy	M. Monillot, Director.
Rodez, Normal School	27.99	710.9	30.07	763.7	59.7	15.4	71	w.			1		10		nw.	0	0	covered	M. Seger, Director.
Rouen, Normal School	29.76	755.8	29.80	757.0	58.3	14.6	91	sw.			3		5	w.		0.295	7.5	raining	M. Brotier.
Saint Maur, Observatory	29.67	753.6	29.84	757.8	61.3	16.3	66	sw.			3		10		wsw.	0.098	2.5		M. Renou, Director.
Toulouse, Observatory	29.48	748.9	30.21	767.4	70.9	21.6	54	w.			3		8	nw.		0.055	1.4	very cloudy	M. Baillaud, Director.
Tours	29.78	756.3	29.95	760.8	63.7	17.6	61	wsw.			3		8	sw.	w.	0.151	4.0	very cloudy	M. de Tastes.
Versailles, Observatory	29.33	745.0	29.82	757.5	60.8	16.0	66	sw.			3					0.142	3.0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.55	750.5	29.84	757.9	61.9	16.6	67	sw.			3		10		sw.	0.091	2.3	raining	M. Marié Davy, Director
GERMAN.																			
Ansbach	28.49	723.6	29.91	756.6	60.8	16.0	62	sw.			4		7	sw.		0.102	2.6		Prof. Jnedt.
Bamberg	29.06	738.0	29.91	759.6	65.7	18.7	52	sw.			2	0	3 k		wsw.	0.059	1.5		Prof. Dr. Hoh.
Berlin	29.58	751.4	29.76	755.8	66.7	19.3	63	se.			2		8			0.339	8.6	thund'r	Prof. Dr. Arndt.
Breslau	29.30	744.2	29.79	757.6	69.4	20.8	67	wnw.			2		10			0.208	6.8		Royal University Obs'y.
Carlsruhe	29.47	748.6	29.90	759.5	65.8	18.8	51	sw.			5		5	sw.		0.280	7.1		Albert Senz.
Cassel	29.09	738.9	29.80	757.0	64.9	18.3	45	sw.			4		8	s.		0.114	2.9		Dr. H. Möhl.
Frankfort-on-the-Main	29.49	749.1	29.85	758.1	67.8	19.9	54	wsw.			3		5			0.362	9.2		Physical Society.
Friedrichshafen	28.56	725.5	29.98	761.6	59.4	15.2	67	sw.			6		10	w.		0.480	12.2		Wilhelm, Chief Tel.
Hamburg	29.64	752.9	29.74	755.3	62.6	17.0	65	wsw.			4		7	se.		0.200	5.6	squally	E. Preller.
Kiel	29.67	753.6	29.69	754.0	64.9	18.3	67	wsw.			4		10			0.405	11.8		Prof. Dr. G. Karsten
Leipsic, Astrom'l Obs'y	29.41	747.1	29.82	757.5	67.6	19.8	48	w.			6		6	w.		0.173	4.4	stormy	H. Leppig, Asst.
Magdeburg	29.60	751.7	29.78	756.4	63.5	17.5	69	wsw.			4	0	7 ks		sw.	0.043	1.1		Dr. Assmann.
Memel	29.82	757.3	29.80	758.5	82.0	27.8	44	s.			2	5 ck	0						Issermann.
Munich	28.15	715.1	30.02	762.4	62.1	16.7	56	nw.			2		9	sw.		0.051	1.3		Dr. C. Lang.
Neufahrwasser	29.71	754.7	29.73	755.1	77.0	25.0	65	sw.			3		9	se.		0.323	8.2		A. Lothes.
Neustadt, Palatinate	29.31	744.5	29.84	757.8	66.2	19.0	54	ssw.			2		6	sw.		0	0		Dicknether.
Stuttgart	28.98	736.0	29.85	758.2	63.5	17.5	61	nw.			1		7	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.69	754.2	29.72	754.9	63.3	17.4	89	sw.			5		10 s			0.102	2.6		Profs. Brandes & Reimer
GREEK.																			
Athens	29.52	749.7	29.88	758.9	88.9	31.6		sw.			1.5		0			0	0	clear	Schmidt & Wourlisch
INDIAN.																			
Kurrachee	29.62	752.2	29.66	753.5	84.0	28.9	72	wsw.	24.0	10.7			8	w.		0	0	gloomy	
Deesa	29.15	740.5	29.62	752.3	87.8	31.0	53	sw.	12.0	5.4			4	wsw.	wsw.	0	0	d. clouds	
Bombay	29.73	755.2	29.77	756.2	79.0	26.1	84	w.	12.0	5.4			10		w.	0.15	3.8	overcast	
Poona, Yarrowda	27.92	709.0	29.78	756.5	73.4	23.0	79	wsw.	28.0	12.5			9	w.	w.	0.07	1.8	d. clouds	
Trichinopoly	29.48	748.8	29.75	755.7	93.1	33.9	38	nnw.	1.0	0.4			10			0	0	overcast	
Bellary	28.26	717.9	29.71	754.6	86.8	30.4	45	w.	15.9	7.1			10			0	0	gloomy	
Belgaum	27.26	692.7	29.83	757.7	70.8	21.6	87	wsw.	9.0	4.0			9	e.	w.	0.12	3.0	showery	
Lahore	28.80	731.4	29.51	749.5	95.2	35.1	50	w.	2.0	0.9			2			0	0	blue sky	
Roorkee	28.60	726.4	29.47	748.4	92.8	33.8	50	w.	2.1	0.9			3			0.10	2.5		
Agra	29.00	736.6	29.55	750.4	92.7	33.7	53	w.	6.0	2.7			2		w.	0	0	d. clouds	
Nagpur	28.61	726.6	29.63	752.6	87.3	30.7	56	wsw.	6.0	2.7			6	w.		0	0	d. clouds	
Jubbulpore	28.29	718.6	29.62	752.5	84.4	29.1	66	wnw.	3.6	1.6			6		nw.	0	0	d. clouds	
Lucknow	29.18	741.2	29.54	750.4	91.1	32.8	59	wsw.	3.5	1.6			0			0	0	blue sky	
Allahabad	29.23	742.5	29.54	750.2	89.9	33.2	64	ne.	1.0	0.4			2	ne.		0	0	d. clouds	
Patna	29.41	746.9	29.59	751.6	83.2	28.4	84	ssw.	2.5	1.1			10	ssw.	ssw.	0.08	2.0	overcast	
Hazaribagh	27.61	701.3	29.59	751.6	82.0	27.8	73	wnw.	7.3	3.3			10		nw.	0	0		
Cuttack	29.57	751.0	29.65	753.1	81.9	27.7	78	calm	0	0			10			0	0	overcast	
Calcutta, Alipore	29.66	751.8	29.62	752.3	84.0	28.9	86	n.	2.0	0.9			9		sw.	0	0	d. clouds	
Dhubri	29.47	748.6	29.59	751.6	80.1	26.7	88	ssw.	2.0	0.9			9			0	0	gloomy	
Chittagong	29.60	751.7	29.69	754.0	77.2	25.1	80	se.	4.8	2.2			10			0.02	0.5	overcast	
Sibsagar	29.24	742.8	29.58	752.0	83.2	28.4	86	sw.	6.0	2.7			10	w.	w.	0.50	12.7	d. clouds	
Jeypore	28.15	715.1	29.56	750.7	90.7	32.6	49	wsw.	2.6	1.2			3		w.	0	0	d. clouds	
Zanzibar, Africa	29.99	761.7			82.2	27.9	55	s.	9.3	4.2			1			0	0	blue sky	
ITALIAN.																			
Udine	29.45	748.1	29.85	758.1	80.2	26.8	45	e.	1.8	0.8			5			0.012	0.3		Prof. Giovanni Clodig.
Milan	29.35	745.5	29.85	758.1	74.3	23.5	59	nw.	3.1	1.4			7	wnw.		0.433	11.0		Prof. Schiaparelli.
Padua	29.72	755.0	29.83	757.7	78.3	25.7	47	sse.	1.3	0.6			10	sw.		0.051	1.3		Prof. Dott. Lorenzoni.
Moncalieri	28.97	735.8	29.84	758.0	71.6	22.0	79	wnw.	1.8	0.8			8			0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Genoa	29.67	753.5	29.85	758.2	75.2	24.0	60	se.	7.4	3.3			6	se.		0.004	0.1		Prof. G. M. Garibaldi.
Mondovi	27.98	710.7	29.82	757.3	70.9	21.6	66	nw.			4		7			0	0		Prof. D. C. Bruno
Pesaro	29.80	756.8	29.84	758.0	80.6	27.0	52	ne.	11.9	5.3			10			0.232	5.9		Prof. Luigi Guidi
Florence	29.67	753.5	29.91	759.7	77.4	25.2	50	sw.			4		10			1.102	28.0		Prof. Costantino Pit er.
Leghorn	29.76	755.9	29.84	758.0	78.4	25.8	66	sw.	9.4	4.2			5			0	0		Prof. P. Monte.
Rome	29.76	755.9	29.93	760.2	84.0	28.9	51	wsw.	12.5	5.6			5			0	0		Prof. P. Tachini.
Lecce	29.67	753.7	29.91	759.8	83.8	28.8	45	sw.	6.3	2.8			3			0	0		Prof. C. de Giorgi.
Cosenza	29.10	739.2	29.96	760.9	84.6	29.2	74	ssw.	3.1	1.4			2	sw.		0	0		Prof. D. Conti.
Cagliari	29.76	755.9	29.95	760.7	86.5	30.3	31	nw.			4		7			0	0		Prof. A. Pacinotti.
Palermo	29.75	755.7	29.99	761.8	86.0	30.0	41	n.	14.3	6.4			0			0	0		Prof. G. Cincciatore.
Syracuse	29.90	759.4	29.94	760.5	83.8	28.8	51	nne.	2.5	1.1			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.45	747.9	29.94	760.5	83.7	28.7	56	sw.	5.6	2.5			6	w.		0	0		Prof. T. Brioschi.
Stelvio	22.19	563.4			46.2	7.9	60	w.			4		10			0.244	6.2	misty	Prof. P. F. Denza.
Valdobbia	22.22	564.4			47.1	8.4	75	ne.			2		7			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.81	757.2	29.84	757.9	67.9	19.9	61	s.	0.6	0.3		0	5 ks		s.	0	0	fine	K. Ogawa.
Hakodate	29.80	756.9	29.81	757.2	67.0	19.4	78	n.	13.8	6.2			1			0	0	clear	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.76	755.9	29.93	760.2	76.1	24.5	92	wsw.	1.0	0.4		0	0			0.438	11.1	light fog	M. Fojima.
Nagasaki, I. M. Obs'y	29.75	755.6	29.94	760.5	78.4	25.8	84	nnw.	1.2	0.5		0	0 s			0	0	cloudy	
Nemuro	29.90	759.4	29.97	761.2	65.0	18.3	90	n.	3.0	1.3		10	0			0	0	cloudy	
Niigata	29.82	757.4	29.80	758.4	74.7	23.7	92	w.	7.5	3.4			10ck;ks			1.475	37.5	covered	M. Morita.
Nobiru	29.80	757.0	29.82	757.4	72.1	22.3	90	nnw.	9.1	4.1			10 n			0.774	19.7	rainy	H. Midzushima.
Osaka	29.88	758.9	29.89	759.2	77.8	25.4	87	ne.	0.5	0.2		1 c	1 s			0	0	clear	
Sapporo					66.2	19.0	87	nw.	18.0	8.0			10			0.182	4.6	covered	
Tokei Obs'y, Yeddo	29.79	756.7	29.86	758.5	72.6	22.6	99	w.	3.5	1.5			10 n			0.886	22.3	raining	The Staff.
Wakayama	29.87	758 7	29.92	759.9	78.2	25.7	86	s.	1.1	0.4		0	0			0	0	clear	Y. Kuwamura.
MAURITIUS.																			
Mauritius Observatory	29.97	761.2	30.16	766.1	72.0	22.2	65	e.	24.0	10.7		0	4 k;ks		e.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	602.0	29.92	760.0	58.1	14.5	99	calm	0	0		1 c	0			0.520	13.2	clear	Prof. Vicente Fernandez.
Leon.†	24.40	619.7	30.07	763.8	59.4	15.2	94	nnw.			1	4 c	2 k	e.	e.	9.707	19.5	cloudy	Prof. M. Leal.
Mazatlan	29.70	754.4	29.96	761.0	74.5	23.6	90	nne.	1.6	0.8		10 c8	0	e.		0.178	4.5	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.5	30.20	767.1	54.5	12.5	93	calm			0	3 ck	3 ks	nw.		0.051	1.3	clear	The Staff.
Morelia	24.22	615.2	30.22	767.6	59.9	15.5	65	ne.			3	2	1	s.	s.	0	0	clear	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascallentes	24.00	609.6	29.95	760.8	61.3	16.3	97	calm			0	0	9 kn		s.	0.280	7.0	very cloudy	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.43	595.1	30.20	767.1	51.8	11.0	89	ne.	2.0	0.9		0	9			1.241	31.5	very cloudy	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D.
Zacatecas	22.05	575.2	30.29	769.4	51.07	10.07	94		6.0	2.7		0	9 k			0.035?	8.2?	very cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.60	751.9	29.60	751.9	58.6	14.8		sse.			5					0.496	12.6		
Groningen	29.63	752.0	29.69	754.0	63.1	17.3		ssw.			3					0.386	9.8		
Helder	29.65	753.2	29.65	753.2	61.5	16.4		ssw.			2					0.205	5.2		
Hellevoetsluis	29.63	752.7	29.63	752.7	60.6	15.9	77	sse.			4					0.268	6.8		
Utrecht	29.04	752.9	29.69	754.1	58.1	14.5	89	s.			3		8			0.421	10.7	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.56	750.8	29.62	752.4	74.5	23.6	52	wnw.	4	2			4			0.010	0.4		
Brono	29.81	757.2	29.85	758.2	61.2	16.2	85	n.	18	8			4			0	0		
Christiania	29.88	751.3	29.72	754.8	76.3	24.6	65	ene.	9	4			9			0	0		
Gjæsvær	29.79	756.6	29.81	757.2	48.4	9.1		calm			0		10					raining	
Lodingen	29.83	757.7	29.88	758.9	55.9	13.3	94	wsw.			3		10			0.043	1.1	rain & fog	
PORTUGUESE.																			
Angra, Azores					75 7	24.3	74	w.	8.1	3.6			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.09	738.9	30.04	762.9	87.1	30.6	24	ne.	0.7	0.3			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.11	764.9	30.20	767.1	73.4	23.0	68	sw.	2.5	1.1			7			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.80	756.9	30.15	765.8	72.9	22.7	37	n.	23.7	10.6			0			0	0		The Staff.
Ponta Delgada, Azores	30.30	771.1	30.43	772.9	77.0	25.0	63	ne.	4.3	1.9			3			0	0		
Saint Paul de Loando	29.81	757.2	30.02	762.4	71.6	22.0	82	wnw.			1		0			0	0		
Serra da Estrella	25.47	647.0	30.09	764.2	63.0	17.2	38	ne.	15.4	6.9			2			0	0		
RUSSIAN.																			
Akmolinski	28.57	725.6	29.61	752.0	62.2	16.8	59	w.	7	3		0	6 k			0.039	1.0		Major K. Lasarew.
Archangel	29.84	758.0	29.86	758.5	73.0	23.1	60	nw.	9	4		0	8 ks			0	0		Capt. Ssellwerstow.
Astrakhan	29.88	758.9	29.80	756.8	80.2	26.8	34	ene.	11	5			9 k			blank	blank		Capt. Wisganow.
Barnaul	29.04	737.7	29.52	749.8	67.1	19.5	70	sw.	9	4			10			0.142	3.6		Meteorological Obs'y.
Dorpat	29.78	756.3	30.00	762.1	82.4	28.0	50	se.	7	3		0	4 k			0	0	light haze	Observatory.
Ekaterinburg	29.03	737.4	29.98	761.5	56.8	13.8	46	nnw.	13	6		0	2 ks			0.008	0.2		Meteorological Obs'y.
Irkutsk																			
Kasan	29.80	757.0	30.06	763.5	74.3	23.5	33	nne.	7	3		0	0			0	0		Observatory.
Kertch	29.09	754.1	29.71	754.0	76.5	24.7	64	w.	25	11		0	6 ks			0	0		Lagorio & Sastyrez.
Kieff	29.27	743.4	29.87	758.8	74.1	23.4	53	ene.	11	5			9k;ks;n						Observatory.
Lugan	29.59	751.6	29.79	750.7	62.8	17.1	96	ene.	18	8			10			1.508	38.3		Meteorological Obs'y.
Moscow	29.60	751.7	30.04	762.9	81.0	27.2	39	e.	7.8	3.5		0	2 k						Meteorological Obs'y.
Nikolaiev	29.76	755.9	29.83	757.7	75.6	24.2	65	nne.	9	4		0	7 kn			0.008	0.2		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.61	752 0	29.75	755.6	72.3	22.4	98	calm	0	0			10 n			5.480	139.2	raining	Physical Observatory.
St. Petersburg	30.03	762.8	30.05	763.2	79.7	26.5	27	ssw.	9	4			9			0	0	light clouds	Central Physical Obs'y.
Semipalatinsk	28.95	735.2	29.59	751.5	59.0	15.0	87	wsw.	31	14			10			0.217	5.5		Major Lasarew
Tashkend, Laboratory	28.15	714.9	29.01	752.1	85.3	29.6	34	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.33	719.0	29.66	753.3	83.3	28.5	41	nw.	31	14		2 c8	0			0.035	0.9		Physical Observatory.
Vladivostock	29.86	758.4	29.93	760.1	66.9	19.4	96	se.	2	1		0	3 k						
Warsaw	29.34	745.1	29.74	755.3	75.4	24.1	60	ssw.	13	6			10ks;n					light rain	Astronomical Obs'y.
Wilna	29.52	749.8	29.91	759.8	81.1	27.3	48	se.	4	2			3			0	0		Berg, Assistant.
Yeniseisk	29.58	751.2	29.85	758.2	73.0	23.1	53	ne.	2	1			0			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.75	755.6	58	14.4	93	nnw.			6		10			0	0	overcast	J. Youngclause.
North Unst			29.61	752.1				se.			1		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.94	760.4	30.04	763.0	73.4	23.0	78	e.	2.0	0.9			10			1.232	31.3		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.15	765.9	30.21	767.4	75.9	24.4	53	nw.	3.6	1.6		3	5	nw.		0.639	1.0	almost cov.	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.23	691.6	30.11	764.7	68.0	20.0	47	ne.	6.7	3.0		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.88	708.2	30.00	761.9	83.1	28.4	30	sw.	6.5	2.9		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.89	759.2	30.06	763.4	88.9	31.6	63	e.	4.5	2.0		1	3	nw.		0	0	clouds	Olayo Diaz, Director
Oviedo	29.38	746.3	30.24	768.2	62.6	17.0	59	nw.	3.3	1.4		0	4 k			0	0		Prof. G. L. Frades.
Santiago, Met. Obs'y	29.30	744.2	30.18	766.6	69.1	20.6	66	calm	0	0		0	5			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	30.05	763.3	30.12	765.0	78.1	25.6	81	se.	3.1	1.4		1 c	0	ne.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	757.0	29.86	758.5	81.8	27.7	79	sw.	22.0	9.8		1 c	2 ks		sw.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.2	30.06	763.6	79.2	26.2	60	w.	4.5	2.0		0	0			0	0		Capt. C. Pujazon, R. N.
San Juan de Porto Rico, W. I	30.03	762.7	30.12	765.0	79.2	26.2	98	calm	0	0		0	2 k		se.	0.819	20.8	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.68	753.9	29.81	757.2	70.6	24.8	88	nnw.	2.2	1.0			10 kn		sw.	0.02	0.5	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.89	759.2	29.93	760.2	68.7	20.4	66	s.			2		0			0	0		
Umea	29.88	759.0	29.93	760.3	74.5	23.6	67	sw.			4		6			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Hernosand	29.85	758.3	29.91	759.6	70.5	21.4	67	s.			2		2			0	0		
Stockholm	29.70	754.3	29.87	758.8	78.8	26.0	50	sse.			4		0			0	0		
Wisby	29.78	756.3	29.84	757.8	79.2	26.2	51	se.			6		0			0	0		
Sub-series.																			
Upsala	29.76	756.0	29.85	758.2	79.3	26.3	40	se.	9.8	4.4			3		se.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.65	727.6	30.04	763.1	64.6	18.1	52	ssw.			6		5			0.051	1.3	cloudy	The Observatory
Turkish.																			
Constantinople			29.91	759.7	84.2	29.0	46	sw.	4	2.0			0			0	0		The Observatory.
Valona			30.04	763.1	86.4	30.2		sw.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.75	755.7	85.1	29.5	59	w.			2	0	3 s		s.	0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.90	759.4	29.98	761.5	75	23.9	85	s.	4	1.8			10 s		s.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.19	741.4	29.83	757.7	64	17.8	100	nw.	5	2.2			10 s			0.46	11.7	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.06	636.5	29.78	756.4	59	15.0	90	e.	4	1.8			10 s			0.18	4.6	cloudy	W. O. Barnes.
Assinnaboine, Ft., Montana	27.11	688.6	29.86	758.4	60	15.6	52	ne.	4	1.8		5 k	0	sw.		0	0	fair	B. O. Lenoir.
Atlanta, Georgia	28.94	735.1	30.09	764.3	77.0	25.0	76	w.	4	1.8		4 k	0	sw.		0	0	fair	H. Hall.
Atlantic City, New Jersey	29.88	758.9	29.89	759.2	70	21.1	100	sw.	17	7.6			10 n			2.09	53.1	heavy rain	Jas. M. Watson.
Augusta, Georgia	29.91	759.7	30.10	764.5	75	23.9	85	calm	0	0		1 c	0			0	0	clear	John Healy.
Baltimore, Maryland	29.92	760.0	29.97	761.2	75	23.9	90	s.	2	0.9		4 cs	5 s; fg		n.	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.93	760.2	29.95	760.7	71.0	21.7	100	se.	6	2.7			10 n			0.63	16.0	light rain	G. A. Hill.
Bennett, Fort, Dakota	28.54	724.9	30.08	764.0	56	13.3	86	calm	0	0		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.13	689.1	29.92	760.0	61	16.1	58	calm	0	0		0	0			0	0	clear	S. Wheaton.
Behring Island, Behring Sea	29.70	754.4	29.72	754.9	52.0	11.1		sw.	7	3.1			10 ks			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.33	719.6	30.08	764.0	57	13.9	86	calm	0	0		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.00	762.0	30.02	762.5	73	22.8	97	se.	2	0.9			10 ks		s.	0.38	9.7	cloudy	J. T. Elker.
Boise City, Idaho	27.13	689.1	29.88	758.9	59	15.0	56	nw.	4	1.8		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.89	759.2	30.04	763.0	73.0	22.8	92	s.	6	2.7			10 s		sw.	inap.	inap.	cloudy	O. B. Cole.
Brownsville, Texas	29.94	760.5	29.98	761.5	78.7	25.9	88	s.	6	2.7		2 c	0			0	0	clear	M. McCarty.
Buffalo, New York	29.16	740.7	29.88	758.9	73	22.8	71	s.	9	4.0		9 cs	fg.	s.		0	0	cloudy	Clarence Weaver.
Buford, Fort, Dakota	28.12	714.2	30.06	763.5	58	14.4	72	ne.	7	3.1		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.64	752.8	29.93	760.2	75.0	23.9	76	s.	15	6.7		7 cs	0	w.		0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.62	752.3	30.01	762.2	72.8	22.7	92	w.	3	1.3			10 s		w.	0.18	4.6	cloudy	W. H. Ray.
Campo, California	27.44	697.0	29.94	760.5	55.8	13.2	69	s.	2	0.9		0	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	30.00	762.0	30.02	762.5	75	23.9	90	sw.	10	4.5			10 ks			0.47	11.9	cloudy	A. K. Alderson.
Cape May, New Jersey	29.93	760.2	29.96	761.0	73.8	23.2	84	n.	14	6.3			10 s		n.	0.46	11.7	cloudy	W. E. Smith.
Cape Mendocino	29.47	748.5			53	11.7	80	n.	20	8.9		0	0			0	0	clear	J. R. Williams.
Cedar Keys, Florida	30.10	764.5	30.12	765.0	81	27.2	79	se.	8	3.6		3 ck	4 s		e.	0	0	fair	F. W. Mixer.
Champaign, Illinois	29.11	739.4	29.90	759.4	68.8	20.4	90	w.	4	1.8			10 s		w.	1.19	30.2	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.04	763.0	30.09	764.3	79.5	26.4	82	sw.	7	3.1		3 c	0	sw.		0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.19	741.4	30.02	762.5	73.0	22.8	84	se.	3	1.3		10 cs	0	w.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.26	743.2	30.07	763.8	73.0	22.8	90	calm	0	0		2 cs	fg.	w.		0.07	1.8	clear	B. L. Goulding.
Cheyenne, Wyoming	24.21	614.9	29.91	759.7	50.3	10.2	74	w.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.17	740.9	29.80	758.4	67.6	19.8	91	sw.	6	2.7		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	29.94	760.5	29.96	761.0	73	22.8	97	nw.	14	6.3		0	7 n		n.	1.10	27.9	light rain	C. F. Dickens.
Cincinnati, Ohio	29.32	744.7	29.96	761.0	73.5	23.1	83	w.	3	1.3			10 s		w.	0.21	5.3	cloudy	J. F. Harrold.
Cleveland, Ohio	29.18	741.2	29.90	759.4	69.5	20.8	86	sw.	9	4.0		5 c; ck	4 s	w.	sw.	0.26	6.6	cloudy	J. B. Newlin.
Coleman City, Texas	28.24	717.3	29.98	761.5	72	22.2	90	calm	0	0		10 ck	0	sw.		0	0	cloudy	L. Dorman.
Columbus, Ohio	29.10	739.1	29.92	760.0	70	21.1	90	sw.	5	2.2		0	0			0	0	clear	D. Cuthbertson.
Concho, Texas	28.12	714.2	29.98	761.5	73	22.8	84	nw.	2	0.9			10 s		sw.	0.32	8.1	cloudy	W. W. McConthe.
Custer, Fort, Montana	26.81	681.0	29.87	758.7	61	16.1	52	se.	6	2.7		8 k	0	calm		0	0	cloudy	W. B. Lamar.
Davenport, Iowa	29.28	743.7	29.91	759.7	66	18.9	84	nw.	7	3.1		0	hz.		calm	0.01	0.3	clear	R. R. Martin.
Davis, Fort, Texas	25.22	640.6	29.87	758.7	64	17.8	81	sw.	4	1.8		0	7 ks		sw.	0.34	8.6	fair	J. Williams.
Dayton, Washington T'y	28.30	718.8	30.02	762.5	50.3	10.2	73	calm	0	0		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.48	647.2	29.91	759.7	63	17.2	60	nw.	5	2.2		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					75	23.9	76	se.	5	2.2		5 c	0	nw.		0	0	fair	D. J. Carr.
Delaware Breakwater, Del.	29.92	760.0	29.94	760.5	73	22.8	97	n.	9	4.0			8 s		n.	0	0	cloudy	T. S. Townsend.
Denison, Texas	29.26	743.2	30.04	763.0	71.4	21.9	94	ne.	2	0.9			10 s			1.20	30.5	cloudy	J. McGlone.
Denver, Colorado	24.87	631.7	29.89	759.2	62.0	16.7	50	sw.	6	2.7		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.12	739.6	30.00	762.0	64	17.8	84	n.	7	3.1		0	0			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.19	741.4	29.88	758.9	69.9	21.1	90	sw.	6	2.7			10 s		calm	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.53	699.2	30.01	762.2	61	16.1	93	calm	0	0		0	0			inap.	inap.	clear	W. M. Mattingly.
Dubuque, Iowa	29.25	742.9	29.94	760.5	64.3	17.9	84	nw.	1	0.4		0	fg.			0.17	4.3	clear	J. Harvey Smith.
Duluth, Minnesota	29.26	743.2	29.98	761.5	66	18.9	78	nw.	26	11.6		0	0			0.32	8.1	clear	N. B. Conger.
Eagle Pass, Texas	29.20	741.7	29.99	761.7	76.0	24.4	82	se.	4	1.8			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.31	642.9	29.86	758.4	60	15.6	58	calm	0	0		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.00	762.0	30.07	763.8	55.0	12.8	93	calm	0	0			fg.			0	0	dense fog	D. O. Murphy.
Elliott, Fort, Texas	27.31	693.7	29.95	760.7	62	16.7	78	n.	4	1.8			10 s		n.	0.53	13.5	cloudy	W. J. Cundall.
El Paso, Texas	26.29	667.8	29.89	759.2	65	18.3	84	ne.	2	0.9		0	0			0	0	clear	J. F. Marshall
Erie, Pennsylvania	29.18	741.2	29.89	759.2	71	21.7	84	calm	0	0			10 n			0.01	0.3	light rain	Peter Wood.
Escanaba, Michigan	29.24	742.7	29.88	758.9	58	14.4	93	n.	4	1.8			10 n			0.49	12.4	light rain	George Heathcote.
Fredericksburg, Texas	28.33	719.6	30.04	763.0	73	22.8	90	calm	0	0		0	9 ks		s.	0.76	19.3	cloudy	Frank Halwegler.
Galveston, Texas	30.02	762.5	30.07	763.8	80	26.7	82	sw.	5	2.2		0	2 k		se.	0	0	clear	E. O'C. Macherney.
Grand Haven, Michigan	29.18	741.2	29.83	757.7	68.0	20.0	93	se.	1	0.4			fg.			0.13	3.3	dense fog	W. A. Reid.
Grant, Fort, Arizona	25.29	642.4	29.86	758.4	61.9	16.6	90	e.	1	0.4		0	1 s			0.34	8.6	clear	Robert C. Lord.
Hatteras, North Carolina	30.04	763.0	30.06	763.5	76	24.4	90	w.	10	4.5		4 k	hz.	nw.		2.47	62.7	fair	R. M. Crawford.
Helena, Montana	25.77	654.5	29.86	758.4	68	20.0	44	w.	4	1.8		0	0			inap.	inap.	clear	N. C. Smith.
Henrietta, Texas	29.08	738.6	30.08	764.0	77.0	25.0	76	s.	5	2.2		0	4 s			0	0	fair	J. W. Byram.
Huron, Dakota	28.73	729.7	30.07	763.8	52.9	11.6	90	nw.	5	2.2		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.16	740.7	29.93	760.2	70	21.1	93	sw.	3	1.3			10 s; fg		sw.	0.48	12.2	cloudy	O. Schutze
Indianola, Texas	30.01	762.2	30.04	763.0	78.7	25.9	88	se.	7	3.1		2 cs	2 ks	n.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.87	733.3	29.99	761.7	72	22.2	90	n.	3	1.3		5 cs	0			0	0	fair	J. P. Sherry.
Jacksonville, Florida	30.08	764.0	30.12	765.0	80	26.7	82	sw.	6	2.7		5 k	0	sw.		0	0	fair	J. W. Smith.
Keogh, Fort, Montana	27.48	698.0	29.91	759.7	67	19.4	56	ne.	6	2.7		1 c	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.28	743.7	29.91	759.7	71.5	21.9	81	calm	0	0		0	0			0.13	3.3	clear	F. Z. Gosewisch.
Key West, Florida	30.08	764.0	30.10	764.5	86.0	30.0	72	se.	5	2.2		0	1 k		se.	0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.03	762.7	30.05	763.3	74	23.3	88	w.	12	5.4		1 cs	8 k		w.	0.78	19.8	cloudy	E. A. Beals.
Knoxville, Tennessee	29.05	737.9	30.06	763.5	69	20.6	93	sw.	1	0.4		0	8 n		w.	0.07	1.8	light rain	J. A. Cody.
La Crosse, Wisconsin	29.20	741.7	29.95	760.7	62	16.7	87	n.	4	1.8			10 s			0.73	18.5	cloudy	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.16	740.7	30.02	762.5	67	19.4	73	nw.	6	2.7		0	0			inap.	inap.	clear	A. W. Browne.
Lewiston, Idaho	29.17	740.9	29.98	761.5	63.5	17.5	36	se.	2	0.9		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.71	754.6	30.02	762.5	74	23.3	90	sw.	9	4.0			10 n		sw.	0.46	11.7	light rain	W. U. Simons.
Los Angeles, California																			Egbert van Dyke.
Louisville, Kentucky	29.40	746.7	29.95	760.7	72	22.2	90	s.	4	1.8			10 s			0.56	14.2	cloudy	H. O. Smyth.
Lynchburg, Virginia	29.31	744.5	29.98	761.5	72	22.2	84	sw.	1	0.4		3 cs	5 ks	w.	w.	0	0	cloudy	Lewis Duane.
Macon, Fort, North Carolina	30.05	763.3	30.06	763.5	77	25.0	90	w.	8	3.6		hz.	0			2.05	52.1	clear	F. P. Chaffee.
Madison, Wisconsin	28.91	734.3	29.89	759.2	60	15.6	93	nw.	5	2.2			10 s		nw.	0.15	3.8	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.59	650.0			58	14.4	44	nw.	7	3.1		0	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.82	706.6	30.03	762.7	72	22.2	84	calm	0	0			9 s			0	0	cloudy	J. E. Thatcher.
Marquette, Michigan	29.20	741.7	29.91	759.7	58	14.4	93	nw.	5	2.2			fg.			0.05	1.3	dense fog	J. Gilligan.
Memphis, Tennessee	29.69	754.1	30.02	762.5	74	23.3	100	w.	10	4.5			10 n		w.	0.02	0.5	light rain	D. T. Flannery.
Milwaukee, Wisconsin	29.13	739.9	29.86	758.4	64	17.8	90	nw.	9	4.0		0	4 ks; fg		nw.	0.01	0.3	fair	W. Line.

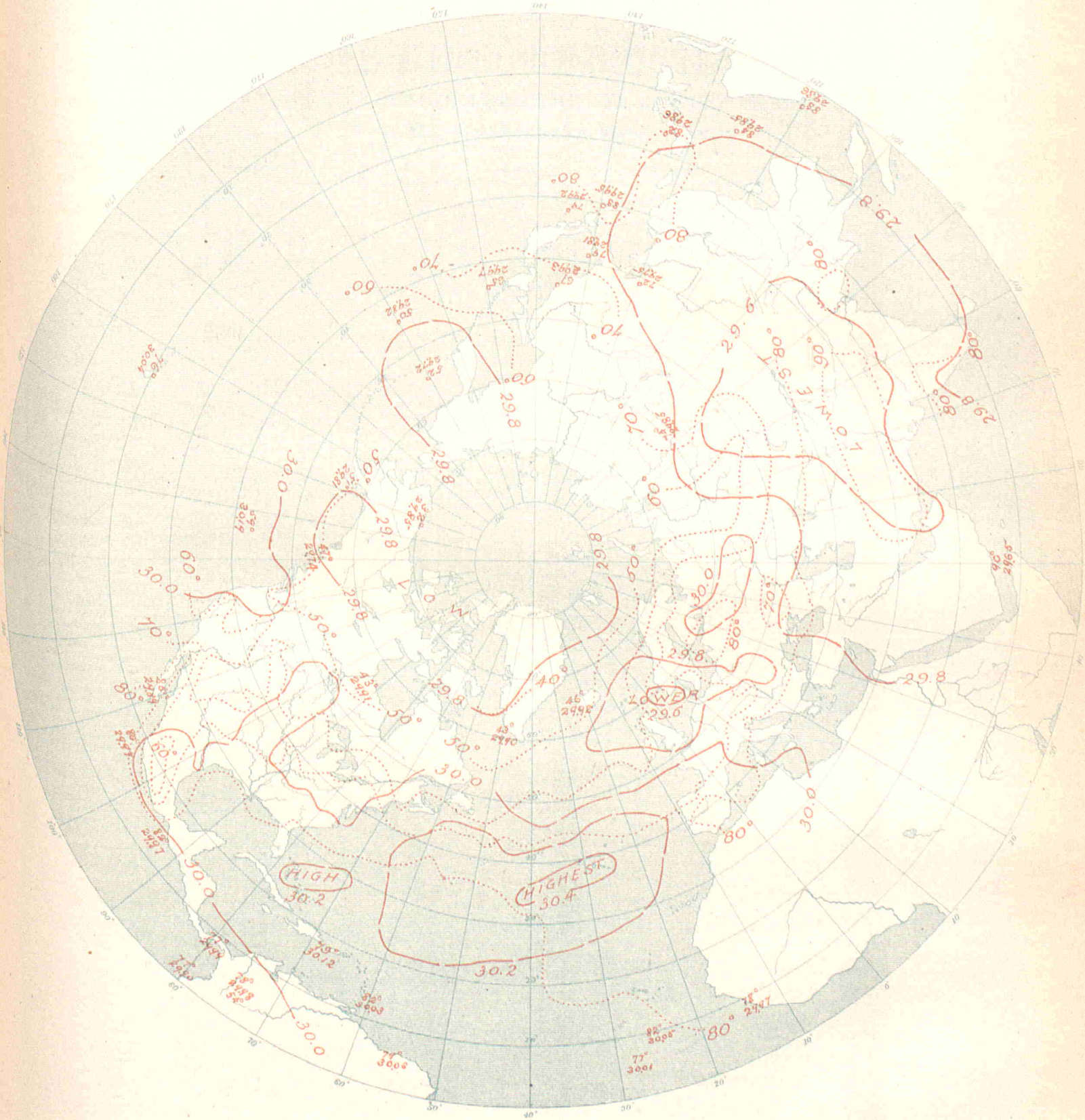
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.68	677.7	29.90	759.4	55	12.8	80	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.05	763.5	30.10	764.5	74.5	23.0	85	nw.	5	2.2	.....	1 cs	4 ks	.....	nw.	0	0	fair	C. A. Read.
Montgomery, Alabama	29.86	758.4	30.09	764.3	75	23.9	94	nw.	1	0.4	.....	4cs;ck	fg.	w.;sw.	.....	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.11	739.4	30.08	764.0	54	12.2	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	H. Bessant.
Morgantown, W. Virginia	28.99	736.3	29.99	761.7	71.0	21.7	90	sw.	6	2.7	.....	0	9 s	.....	sw.	inap.	inap.	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.02	610.1	30.10	764.5	54.0	12.2	93	sw.	22	9.8	.....	1 c	stk.	sw.	sw.	0	0	clear	J. G. Lipsley.
Nashville, Tennessee	29.44	747.8	30.00	762.0	71.0	21.7	72	se.	2	0.9	.....	.....	10ks;fg	.....	w.	1.02	25.9	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.89	759.2	30.00	762.0	73.5	23.1	93	s.	2	0.9	.....	.....	10s;sk	.....	s.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	29.97	761.2	30.02	762.5	74	23.3	100	se.	3	1.3	.....	.....	10n;fg	.....	.....	0.04	1.0	light rain	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.07	763.8	80.0	26.7	82	nw.	2	0.9	.....	6 c	sk.	nw.	.....	0	0	fair	L. Dunne.
Newport, Rhode Island	29.98	761.5	30.03	762.7	74.0	23.3	97	s.	6	2.7	.....	.....	10 n	.....	se.	0.72	18.3	light rain	W. McGillivray.
New York, New York	29.82	757.4	29.99	761.7	74	23.3	97	e.	9	4.0	.....	0	8s;fg	.....	e.	0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	30.00	762.0	30.03	762.7	75	23.9	90	w.	7	3.1	.....	7 cs	0	nw.	.....	0.06	1.5	fair	Wm. Davis.
North Platte, Nebraska	27.21	691.1	30.01	762.2	62.6	17.0	76	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.08	764.0	30.12	765.0	49.0	9.4	89	sw.	2	0.9	.....	9 cs	0	sw.	.....	0	0	cloudy	J. Dascomb.
Ogliamie, Pt. Barrow, Alas.	29.83	757.7	29.85	758.2	31.8	— 0.1	97	e.	18	8.0	.....	.....	10 s	.....	e.	0	0	cloudy	P. H. Ray.
Omaha, Nebraska	28.91	734.3	30.05	763.3	65.3	18.5	86	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Oswego, New York	29.56	750.8	29.88	758.9	74.0	23.3	71	s.	6	2.7	.....	2 ck	0	w.	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.56	750.8	30.10	764.5	73.5	23.1	94	sw.	6	2.7	.....	8 ck	0	sw.	.....	0	0	cloudy	L. M. Pindell.
Pensacola, Florida	30.05	763.3	30.08	764.0	77.2	25.1	82	w.	4	1.8	.....	4 cs	0	.....	.....	0	0	fair	M. McGauran.
Philadelphia, Pa.	29.88	758.9	29.98	761.5	74	23.3	90	ne.	3	1.3	.....	.....	fg.	.....	.....	0.56	14.2	dense fog	T. F. Townsend.
Pike's Peak, Colorado	18.09	459.5	29.88	758.9	34	1.1	61	calm	0	0	.....	0	0	.....	.....	inap.	inap.	clear	L. M. Dey.
Pioche, Nevada	24.13	612.9	29.83	757.7	63	17.2	60	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.14	740.1	29.93	760.2	72.0	22.2	82	s.	3	1.3	.....	.....	10 n	.....	sw.	inap.	inap.	light rain	J. B. Turton.
Poplar River, Montana	27.92	709.2	.....	.....	.....	.....	.....	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.08	764.0	30.09	764.3	80.2	26.8	88	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	M. Hermann.
Port Huron, Michigan	29.18	741.2	29.84	757.9	69.5	20.8	88	sw.	4	1.8	.....	7 c	0	.....	.....	0.40	10.2	fair	W. O. Bailey.
Portland, Maine	29.98	761.5	30.03	762.7	66.0	18.9	90	sw.	3	1.3	.....	.....	fg.	.....	.....	0.13	3.3	dense fog	W. W. Eichelberger.
Portland, Oregon	30.03	762.7	30.10	764.5	54.0	12.2	86	calm	0	0	.....	6 cs	1 s	n.	.....	0	0	fair	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	77	25.0	90	sw.	11	4.9	.....	2 c	3 k	sw.	sw.	1.34	34 0	fair	F. S. Coburn.
Prescott, Arizona	24.85	631.2	29.83	757.7	57	13.9	90	s.	5	2.2	.....	0	0	.....	.....	0.39	9.9	clear	J. McN. Wright.
Provincetown, Mass.	30.02	762.5	30.05	763.3	72	22.2	97	s.	5	2.2	.....	.....	10s; fg	.....	.....	0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.11	764.8	30.12	765.0	76	24.4	85	e.	8	3.6	.....	1 c	1 k	ne.	calm	0.74	18.8	clear	W. J. Evans.
Red Bluff, California	29.54	750.3	29.90	759.4	64.2	17.9	70	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.77	756.1	30.01	762.2	78	25.6	88	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Rochester, New York	29.22	742.2	29.88	758.9	71	21.7	76	sw.	8	3.6	.....	9 c; k	hz.	w.	.....	0.01	0.3	cloudy	E. W. McGann.
Roseburg, Oregon	29.54	750.3	30.08	764.0	57	13.9	69	nw.	2	0.9	.....	5 k	0	nw.	.....	0	0	fair	J. J. Nanry.
Sacramento, California	29.83	757.7	29.90	759.4	59.6	15.3	75	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.38	746.2	29.96	761.0	68.5	20.3	97	w.	6	2.7	.....	0	9 s	.....	sw.	0.11	2.8	cloudy	J. H. Webber.
St. Paul, Minnesota	29.15	740.4	29.99	761.7	62.0	16.7	87	nw.	6	2.7	.....	0	hz.	.....	.....	0.48	12.2	clear	P. F. Lyons
St. Vincent, Minnesota	29.22	742.2	30.07	763.8	55	12.8	93	w.	4	1.8	.....	hz.	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.63	651.0	29.82	757.4	70	21.1	39	calm	0	0	.....	10 k	0	sw.	.....	0	0	cloudy	J. Craig.
San Antonio, Texas	29.33	745.0	30.02	762.5	75.0	23.9	97	se.	1	0.4	.....	.....	10 s	.....	se.	0	0	cloudy	T. J. Kenan.
San Diego, California	29.88	758.9	29.95	760.7	67.6	19.8	85	w.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.23	742.4	29.89	759.2	69	20.6	84	w.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.95	760.7	29.98	761.5	73.0	22.8	97	e.	9	4.0	.....	.....	10 ks	.....	e.	0	0	cloudy	B. A. Blandon.
San Francisco, California	29.92	760.0	29.99	761.7	55.5	13.1	90	sw.	7	3.1	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gerom.
Santa Fé, New Mexico	23.41	594.6	29.90	759.4	57	13.9	57	ne.	6	2.7	.....	0	0	.....	.....	inap.	inap.	clear	H. U. Jones.
Savannah, Georgia	30.02	762.5	30.11	764.8	80.5	26.9	73	s.	4	1.8	.....	4 c	0	.....	.....	0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.33	668.8	29.86	758.4	53	11.7	69	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.84	757.9	30.07	763.8	74	23.3	93	sw.	2	0.9	.....	2 c	2 s	.....	.....	0	0	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.82	732.0	30.00	762.0	68.2	20.1	93	ne.	4	1.8	.....	5 ck	4 s	w.	nw.	0.86	21.8	cloudy	T. Cleary.
Silver City, New Mexico	24.38	619.2	29.84	757.9	55	12.8	67	s.	1	0.4	.....	0	3 k	.....	calm	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.68	753.9	29.74	755.4	47.1	8.4	93	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Smith, Fort, Arkansas	29.57	751.1	30.03	762.7	71.5	21.9	96	w.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.05	763.3	30.09	764.3	76	24.4	90	nw.	2	0.9	.....	2 c	2 k	.....	w.	0.82	20.8	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.98	710.7	29.98	761.5	57.5	14.2	54	s.	5	2.2	.....	1 ck	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.28	743.7	29.94	760.5	71.5	21.9	83	nw.	2	0.9	.....	0	4s;ks	.....	w.	0.12	3.0	fair	T. B. Jennings.
Springfield, Massachusetts	29.88	758.9	30.02	762.5	72.8	22.7	90	s.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	T. S. Outram.
Springfield, Mo.	28.62	726.9	30.00	762.0	67	19.4	90	e.	3	1.3	.....	0	8 s	.....	.....	0.91	23.1	cloudy	J. B. Marbury.
Starkville, Miss.	29.60	751.8	30.07	763.8	78.8	26.0	82	sw.	6	2.7	.....	5 cs	4 k	.....	s.	0.18	4.6	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.23	717.0	30.01	762.2	52	11.1	93	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.04	686.8	29.98	761.5	70.0	21.1	84	nw.	8	3.6	.....	.....	10 s	.....	calm	0	0	cloudy	J. O'Dowd.
Thomas Camp	27.25	692.1	29.87	758.7	69	20.6	93	w.	.....	.....	1	3 cs	1 k	sw.	sw.	0.14	3.6	fair	
Thatcher's Island, Mass.	29.98	761.5	30.03	762.7	62.0	16.7	97	sw.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	G. Liebmann.
Toledo, Ohio	29.21	741.9	29.88	758.9	70	21.1	84	w.	9	4.0	.....	.....	10 ks	.....	w.	0	0	cloudy	A. Buell.
Tucson, Arizona	27.56	700.0	29.90	759.4	70	21.1	90	se.	5	2.2	.....	0	4 ks	.....	.....	0.37	9.4	fair	J. L. Whiteside.
Umatilla, Oregon	29.69	754.1	30.05	763.3	54	12.2	74	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.03	737.3	29.97	761.2	75	23.9	90	se.	4	1.8	.....	.....	10 s	.....	s.	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	69.4	20.8	49	n.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.83	757.7	30.07	763.8	78	25.6	88	s.	5	2.2	.....	10 cs	0	s.	.....	0	0	cloudy	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.58	624.3	29.92	760.0	49.6	9.8	67	calm	0	0	.....	0	1 k	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	29.87	758.7	29.98	761.5	75.4	24.1	88	s.	1	0.4	.....	5 k	3 ks	se.	se.	0	0	cloudy	F. M. M. Beall.
West Las Animas, Colorado	26.18	665.0	29.93	760.2	53	11.7	78	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg
Williamsport, Pa.	29.37	746.0	29.95	760.7	71	21.7	84	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.03	762.7	30.08	764.0	77	25.0	82	sw.	1	0.4	.....	2 c; k	0	.....	.....	0.10	2.5	clear	Samuel A. Haney.
Winnemucca, Nevada	25.62	650.7	29.85	758.2	55.5	13.1	24	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.82	732.0	30.09	764.3	62	16.7	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Attfield.
Yuma, Arizona	29.70	754.4	29.84	757.9	81.0	27.2	52	calm	0	0	.....	4 ck	5 s	.....	.....	0	0	cloudy	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.08	560.8	.....	.....	54.0	12.2	47	s.	1	0.4	.....	4cs;ck	5 ks	.....	.....	0	0	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I.	30.02	762.5	30.03	762.7	82	27.8	95	e.	.....	.....	.....	3 k	5 ks	.....	.....	0.70	20.1	fair	J. A. Racker.
Buenaventura, U. S. C.	29.91	759.7	29.94	760.5	77	25.0	86	calm	0	0	.....	.....	10 ks	.....	calm	1.90	48.3	cloudy	J. I. Plume.
Havana, Cuba	30.04	763.0	30.10	764.5	80	26.7	79	e.	4.8	2.1	.....	0	0	.....	.....	inap.	inap.	clear	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	30.07	763.8	30.08	764.0	79.9	26.6	78	n.	1	0.4	.....	10 c	0	e	.....	0.02	0.5	cloudy	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	72	22.2	.....	calm	.....	.....	0	4 ks	0	.....	.....	0	0		S. M. Pike.
Navassa, W. I.	29.95	760.7	30.03	762.7	81	27.2	78	e.	4	1.8	.....	4 cs	4 ks	se.	e.	0	0	cloudy	F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	79	26.1	91	e.	.....	.....	3	4 c	4 k	e.	.....	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.42	747.3	29.98	761.5	78	25.6	89	calm	.....	.....	0	.....	10 ks	.....	se.	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	98	ne.	.....	.....	2	2 cs	0	ne.	.....	1.24	31.5	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.76	755.9	29.81	757.2	51	10.6	93	calm	.....	.....	0	.....	10 n	.....	.....	0.09	2.3	cloudy	W. J. Fisher.
St. Thomas, W. I.	30.01	762.2	30.14	765.5	80	26.7	82	e.	.....	.....	.....	0	6 n	.....	e.	0.04	1.0	light rain	Aug. Walloe.
York Factory, B. A.	29.85	758.2	29.91	759.7	43.0	6.1	100	se.	10	4.5	.....	5 k	5 s	se.	se.	0.20	5.1	cloudy	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, N. 30° 50′ W. 37° 16′	30.21	767.3	79.5	26.4	73	ene.			2–3		2							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.81	757.2	82.5	28.1	83	nw.			2–3		1					3	wnw.	misty.
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.24	768.1	72.5	22.5	88	sw.			1		6	sw.						misty.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.91	759.7	81	27.2		n.			1									d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.31	769.9	59.5	15.3		se.			1–3		4							d. clouds.
H. M. S. Cleopatra, N. 42° 50′, E. 132° 55′	29.90	759.4	68	20.0	100	calm			0		0							blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	29.98	761.5	52	11.1	86	ese.			1		3							d. clouds.
H. M. S. Diamond, S 10° 15′, E. 161° 42′	29.99	761.7	77	25.0	77	se.			1–2		9							d. clouds.
H. M. S. Dido, N. 17° 55′, W. 77° 00′	30.10	764.5	80	26.7		calm			0		0							blue sky.
H. M. Dock-Yard, Bermuda, W. I.	30.19	766.8	81.5	27.5	80	ese.			1–2		3	ese.						d. clouds.
H. M. S. Flying Fish, N. 32° 44′ E. 129° 52′	29.88	758.9	83	28.3	87	calm			0		4							d. clouds.
H. M. S. Gannet, S. 10° 50′, W. 78° 30′	30.10	764.5	59.5	15.3	91	se.			4		9	ne.						drizzling.
H. M. S. Griffon, N. 47° 36′ W. 55° 54′	30.10	765.5	58.5	14.7	70	s.			1		3							d. clouds.
H. M. S. Iron Duke, N. 43° 07′ E. 131° 55′	29.86	758.4	71	21.7	95	sse.			1		7							d. clouds.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	30.03	762.7	77.3	25.2	88	se.			1		6					1	se.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.02	762.5	55	12.8		calm			0									d. clouds.
H. M. S. Magpie, N. 35° 06′, E. 129° 03′	29.89	759.2	78.5	25.8	87	ssw.			1		0							showery.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.80	756.9	81	27.2	82	nw.			3		1							misty.
H. M. S. Northampton, Halifax, Nova Scotia	30.05	763.3	61.5	16.4	100	sse.			1									foggy.
H. M. S. Pegasus, N. 1° 43′, E. 108° 04′	29.86	758.4	83	28.3	83	wsw.			1		5							d. clouds.
H. M. S. Sappho, Honolulu, Sandwich Islands	30.04	763.0	76	24.4	95	ne.			3		6	ne.						drizzling.
H. M. S. Swiftsure, S. 38° 50′ W. 74° 25′	30.02	762.5	53	11.7	73	ssw.			1		8	ssw.				4	ssw.	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.24	768.1	47	8.3	92	ne.			1		10							overcast.
H. M. S. Tenedos, N. 49° 27′ W. 56° 09′	30.17	766.3	54	12.2	86	calm			0		1							blue sky.
H. M. S. Triumph, Montevideo, Uruguay	30.23	767.8	48	8.9	85	ene.			2		2	nne.						d. clouds.
H. M. S. Woodlark, N. 24° 20′, E. 58° 15′	29.47	748.5	89.5	31.9	80	ene.			4		2	e.						misty.
PORTUGUESE NAVAL.																		
Rio Lima, Fogo, Cape Verd Islands	30.13	765.4	78.8	26.0	84	nw.			2		5					1		d. clouds.
Tamega, Macao, China	29.63	752.6	84.2	29.0	81	sw.			1		2		sw.					d. clouds.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla.	30.02	762.5	77	25.0	86	nw.	4	1.8			5		ne.	0	0			fair.
Navy Yard, Portsmouth, N. H.	30.02	762.5	67	19.4	95	sw.	4	1.8			0			0.40	10.2			foggy.
Naval Hospital, Yokohama, Japan*	29.74	755.4	74.5	23.6	93	calm			0		8		n.	0.83	21.1			clearing.
Adams, Mare Island, Cal.			57	13.9	87	sw.			4		0			0	0	sm'h		clear.
Alaska, S. 3° 46′, W. 121° 56′	29.96	761.0	73	22.8	85	ene.			4		2		e.	0	0	sm'h		fair.
Alliance, Portsmouth, N. H.	30.04	763.0	64	17.8	100	sw.			0–1		10			0	0	sm'h		foggy.
Ashuelot, Yokohama, Japan*	29.80	756.9	75	23.9	95	wnw.			1		10		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.28	769.1	73	22.8	95	se.	4	1.8			10		calm	0.14	3.6	sm'h		cloudy.
Colorado, New York, N. Y.			75	23.9	95	calm	0	0			10			0	0			overcast.
Constellation, N. 39° 22′ W. 73° 05′*	29.95	760.7	76	24.4	95	nnw.			6		5		nw.			mod	nw.	fair.
Enterprise, Portsmouth, N. H.	30.01	762.2	65	18.3	94	s.			1		10		s.					foggy.
Essex, Coquimbo, Chili	30.07	763.8	56	13.3	87	sw.			0–1		5					sm'h		fair.
Franklin, Norfolk, Va.	30.01	762.2	73	22.8	100	w.	8.4	3.8			5		nw.	0.06	1.5			fair.
Galena, N. 16° 05′, W. 26° 20′	30.06	763.5	81	27.2	87	ese.			2		2		e.			mod.		clear.
Hartford, N. 41° 51′, W. 37° 37′	30.07?	763.8?	76	24.4	95	sw.			6		8		sw.	0	0	mod.	sw.	cloudy.
Independence, Mare Island, Cal.	29.98	761.5	56	13.3	100	sw.			4		0			0	0			clear.
Iroquois, N. 20° 16′, W. 106° 55′	29.91	759.7	81	27.2	87	ene.			4		10		ne.			long	se.	cloudy.
Kearsarge, Norfolk, Va.	30.02	762.5	74	23.3	100	wsw.			2		5		wsw.					fair.
Lackawana, Callao, Peru*	30.09	764.3	60	15.6	88	se.			2		8		se					cloudy.
Lancaster, Villafranca, France*	29.80	756.9	78	25.6	65	e.			1		5		calm	0	0	mod.	s.	fair.
Marion, S. 34° 54′, W. 56° 13′	30.20	767.1	48	8.9	100	ne.			2		10					sm'h		cloudy.
Michigan, Chicago, Illinois	29.84	757.9	68	20.0	95	sw.			1		0							clear.
Minnesota, New York, N. Y.	30.02	762.5	75	23.9	90	e.	1	0.4			10							misty.
Monocacy, N. 37° 27′ E. 126° 33′	29.81	757.2	79	26.1	91	ene.			2		10		calm					rainy.
New Hampshire, Newport, R. I.	30.08	764.0	74	23.3	95	ssw.			1		10					sm'h		clearing.
Nipsic, Villafranca, France*	29.79	756.7	77	25.0	65	ene.			2		8					sm'h	ssw.	cloudy.
Onward, Callao, Peru†	30.17	766.3	58	14.4	94	sse.			4		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.84	757.9	81	27.2	83	calm			0		2		calm					fair.
Passaic, Washington, D. C.			74	23.3	?	sw.			2		8			0	0			fair.
Pensacola, N. 2° 13′, W. 80° 15′*	29.90	759.4	77	25.0	86	s.			4		10		s.	0	0	mod.	s.	cloudy.
Portsmouth, N. 36° 28′, W. 4° 10′*	29.99	761.7	72	22.2	85	e.			3		2					sm'h		clear.
Powhatan, Norfolk, Va.	30.01	762.2	75	23.9	90	w.			2		8		w.					fair.
Quinnebaug, Alexandria, Egypt*	29.78	756.4	80	26.7	91	nnw.			3		2		nnw.			sm'h		hazy.
Ranger, Mare Island, Cal.	29.99	761.7	57	13.9	81	sw.			3		2		sw.	0	0			clear.
Richmond, Yokohama, Japan*	29.76	755.9	77	25.0	95	w.			2		10			0.08	2.0			cloudy.
Saratoga, N. 37° 58′, W. 0° 12′	30.03	762.7	80	26.7	91	se.			2		8		se.	0	0	sm'h		fair.
St. Louis, League Island, Pa.	30.23	767.8	74	23.3	90	sw.			3		8			0.05	1.3			cloudy.
Swatara, Hong Kong, China*	29.44	747.8	82	27.8	83	s.			2		2		sw.			sm'h		fair.
Tennessee, Portsmouth, N. H.	30.06	763.5	63	17.2	94	s.	2	0.9						0.06	1.5			foggy.
Vandalia, Portsmouth, N. H*	30.00	762.0	66	18.9	100	sww.			1		10		calm					foggy.
Wabash, Boston, Mass.	30.03	762.7	73	22.8	90	s.	6	2.7			10		sw.	0.51	13.0			cloudy.
Wachusetts, Fort Wrangle, Alaska†	30.16	766.1	53	11.7	93	se.			1		8		calm	0	0	sm'h		cloudy.
Wyoming, Port Royal, S. C.*	30.08	764.0	77	25.0	86	sw.	5	2.2			8		w.	0	0			cloudy.
Yantic, Portsmouth, N. H.	30.03	762.7	64	17.8	89	calm			0									foggy.
MERCHANT MARINE.																		
ALLAN LINE.																		
S. S. Grecian, N. 36° 41′, E. 12° 30′*	30.10	764.5	86	30.0		wsw.			2		0			3 h'r	3 h'r	sm'h		clear.
S. S. Polynesian, Liverpool, Eng.*	29.49	749.0	70	21.1		nne.			4		3		ne.	6 h'r	6 h'r			fair.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Indiana, Philadelphia, Pa.†	30.13	765.3	73	22.8	95	w.			3		8		w.					cloudy.
S. S. Lord Clive, N. 41° 22′ W. 57° 56′*†	30.17	766.3				w.			2		0			0	0	sm'h		fine.
S. S. Lord Gough, N. 47° 58′ W. 49° 04′	30.13	765.3	54	12.2		nnw.			4		5		nnw.	0	0	long	sw.	fair.
S. S. Ohio, Philadelphia, Pa.†	29.99	761.7	76	24.4	95	e.			1		9							foggy.
AMSTERDAM LINE.																		
S. S. Jason, N. 49° 19′, W. 14° 28′*	29.95	760.7	62.6	17		nw.			2		5 k?					4	w.	cloudy.†
ANCHOR LINE.																		
S. S. Bolivia, New York, N. Y.*†	29.96	761.0	71	21.7		nw.			1		10			driz'l	driz'l			raining.
S. S. Dorian, New York, N. Y.*	29.84	757.9																
ATLAS LINE.																		
S. S. Ailsa, N. 20° 13′ W. 74° 02′†	30.19	766.8	83	28.3	91	e.			4		2		e.	4 h'r	4 h'r	mod.	cf'd	fair.
S. S. Alene, Savanilla, U. S. C.†	29.88	758.9																
S. S. Alpin, N. 18° 07′, W. 73° 30′	30.09	764.3				nw.			1		0			½h'r	½h'r		se.	
S. S. Antillas, Jacmel, Hayti, W. I.†	29.85	758.2	86	30.0		sw.			1		2		sw.	0	0			clear
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 43° 01′, E. 62° 42′	29.64	752.8	48	8.9	92	wsw.			6		6							squally.
S. Baroda, N. 9° 15′, W. 25° 21′	30.05	763.3	81.5	27.5	78	nne.			1		2							blue sky.
Bk. Caldew, S. 36° 30′, E. 24° 26′	30.50	774.7	57	13.9	75	sse.			3		4							d. clouds.
S. S. Cipero, N. 33° 15′ W. 41° 19′	30.40	772.1	79.4	26.3		sse.			2		2							blue sky.
Bk. Commewyne, N. 51° 35′, W. 14° 09′	29.87	758.7	60.6	15.9	94	sse.			4		8							misty.
S. S. City of Agra, S. 40° 24′, E. 30° 37′	29.38	746.2	52.6	11.4	96	wnw.			6		8							squally.
S. S. Gordon Castle, N. 44° 12′ W. 43° 53′	30.18	766.6	71	21.7	67	nw.			3		6							d. clouds.
S. S. Humboldt, S. 34° 37′, W. 58° 04′	30.21	767.3	51.9	11.1	86	ne.			5		8							d. clouds.
May Hulse, N. 43° 58′, W. 32° 25′	30.15	765.8	72.7	22.6	95	sw.			3		10							heavy rain.
S. S. Minho, Rio de Janeiro, Brazil	30.19	766.8	70.4	21.3	92	sw.			1		7							d. clouds.
S.S. Oamarn, N. 6° 32′, W. 26° 12′	30.09	764.3	80.3	26.8	82	ne.			3		5							d. clouds.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 26° 16′, W. 110° 33′ *†	29.89	759.2	85	29.4	79	calm			0		0					sm'h		clear
CUNARD LINE.																		
S. S. Bothnia, N. 49° 25′, W. 26° 11′	29.92	760.0	64	17.8	94	wnw.			4		5?		w.	8 h'r	8 h'r		wsw.	clear?
S. S. Marathon, N. 33° 36′, E. 22° 09′	29.94	760.5	81	27.2		w.			3		0			0	0	mod.	wnw.	clear.
S. S. Scythia, Liverpool, Eng	29.52	749.8	70	21.1	95	nw.			3		4		wnw.	6 h'r	6 h'r			fair.
DONALDSON LINE.																		
S. S. Colina, N. 54° 47′, W. 12° 07′†	30.00	762.0				nne.			2		2		nne.			sm'h		clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Cimbria, N. 41° 56′, W. 56° 46′	30.27	768.8	76	24.4		ssw.			3		2		ssw.	0	0	sm'h	sw.	clear.
S. S. Gellert, N. 48° 11′, W. 31° 15′	30.16	766.1	69	20.6		nw.			3		2		w	0	0	mod.	nw.	fair.
S. S. Herder, New York, N. Y *	29.69	754.1	80	26.7		e.			1		9		ese.	2 h'r	2 h'r			covered.
S. S. Silesia, N. 58° 06′, W. 14° 22′	29.83	757.7	54.5	12.5		n.			0–1		10			0	0	2	ne.	overcast.
S. S. Vandalia, N. 41° 50′, W. 53° 15′ *	30.29	769.4	72.1	22.3		se.			2		5		s.	0	0	mod.	se.	fair.
S. S. Westphalia, N. 50° 37′, W. 35° 07′	29.81	757.2	62	16.7	94	wsw.			6		5		wsw.	0	0	r'gh	wsw.	fair.
INMAN LINE.																		
S. S. City of Berlin, N. 46° 30′ W. 48° —′	30.15	765.8				nw.			1		10		nnw.	0	0	sm'h		foggy.
LAMPERT AND HOLT'S LINE.																		
S. S. Archimedes, N. 46° 38′ W. 24° 53′†	30.13	765.3				[w sw to w.			4		1		calm	4 h'r	4 h'r	mod.	wsw.	fine.
S. S. Hevelius, S. 27° 40′, W. 43° 40′ *†	30.40	772.1	60	15.6		ne.			5		9?		nw.	0	0	long	se.	clear?
LEYLAND LINE.																		
S. S. Bulgarian, N. 52° 26′, W. 5° 31′*	29.81	757.2				nw.			6		9		nw.	3 h'r	3 h'r			
MALLORY LINE.																		
S. S. City of San Antonio, Matanzas, Cuba, W. I *†	30.22	767.6				calm			0		2			0	0			fair.
S. S. Colorado, New York, N. Y †	29.98	761.5	75	23.9		calm			0		10			0	0			cloudy.
S. S. San Marcos, N. 30° 11′, W. 80° 47′	29.97	761.2				s.												fine.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Marseilles, France *†	30.00	762.0	72	22.2	80	nw.			5		2		nw.	0	0			clear.
MERCHANTS EXPRESS LINE.																		
S. S. Freja, N. 47° 32′, W. 46° 09′†	30.18	766.6	58	14.4	94	w.			5		fg			0	0	mod.	sw.	fine.
S. S. Hermod, N. 40° 38′, W. 52° 43′†	30.34	770.6	84.2	29		calm			0		1		ne.	0	0	mod.	se.	fair.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Genapp, S. 1° 30′, W. 39° —′†	29.97	761.2				ese.			4		5		ese.	0	0	h'vy	ese.	fine.
MORGAN LINE.																		
S. S. Chalmette, Port Eads, Louisiana†	30.09	764.3	84	28.9		nw.			1		0			0	0	sm h		clear.
NATIONAL LINE.																		
S. S. Canada, N. 46° 30′, W. 36° 37′†	30.06	763.5				wnw.			4		10		wsw.	12 h'r	12 h'r	high	wsw.	
S. S. Denmark, N. 50° 49′, W. 148° —′	29.73	755.1	65	18.3		nw.			6		10		n.	3 h'r	3 h'r	short	w.	raining.
S. S. England, N. 42° 06′ W. 45° 43′	30.22	767.6				wnw.			4		1		wnw.	0	0	sl't	w.	clear.
S. S. Erin, Liverpool, Eng	29.61	752.1	62	16.7		nne.			5		3		n.	1 h'r	1 h'r			clear.
S. S. Helvetia, N. 41° 01′, W. 51° 48′	30.29	769.4	75	23.9		nnw.			1				nnw.	0	0	sm'h		fine.
S. S. The Queen, N. 45° 42′, W. 33° 30′	30.04	763.0	64	17.8		ssw.			2		10			18 h'r	18 h'r	sm'h		hazy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 38° 14′, W. 73° 58′†	30.02	762.5	78	25.6		sw.			6		8		sw.	1 h'r	1 h'r	chop	ssw.	cloudy.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York, N. Y.†	30.02	762.5	77	25.0	?	ne.			2									raining.
S. S. City of Puebla, Havana, Cuba, W. I.†	30.03	762.7	79	26.1		sw.			1		5		sw.					fair.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 49° 42′ W. 17° 20′*	29.96	761.0	64	17.8		sw.			4									rain & fog.
S. S. Lone Star, N. 33° 10′ W. 78° 15′	30.15	765.8	80	26.7		sw.			2								sw.	clear.
NORTH GERMAN LLOYD.																		
S. S. America, N 50° 50′ E. 0° 41′ *	29.64	752.8	64.0	17.8	83	nw.			5		10		nw.	2 h'r	2 h'r	mod.	nw.	cloudy.
S. S. Gen. Werder, N. 49° 49′ W 5° 41′	29.88	758.9				nw.			6		8		nw.	0	0	r'gh	w.	cloudy.
S. S. Graf Bismarck, N. 5° 33′, W 27° 22′	30.11	764.8	77.0	25.0		se.			5		10		sse.	6 h'r	7 h'r	cross	se.	heavy rain.
S. S. Hohenstaufen, N. 46° 09′, W. 35° 55′	30.06	763.5	68.0	20.0		nne.			5		10		nne.			4	w.	foggy.
S. S. Koln, N. 38° 42′ W. 71° 13′ *	30.03	762.7	79.0	26.1	91	s.			5		10		sw.	2 h'r	2 h'r	long	s.	showery.
S. S. Leipzig, N. 41° 59′, W. 47° 53′	30.29	769.4	69.0	20.6	95	n.			3		2			1 h'r	1 h'r	mod.	nw.	clear.
S. S. Main, N. 48° 52′, W. 43° 38′	29.99	761.7				nnw.			5		2		nw.	0	0	long	w.	fair.
S. S. Neckar, off Needles, England	29.70	754.4	62.0	16.7	94	nw.			6		10		nw.	rain	rain	mod.	nw.	cloudy.
S. S. Ohio, Baltimore, Md	30.00	762.0				nne.			1		0		n.	0	0			cloudy.
S. S. Salier, N. 43° 40′, W. 51° 32′	30.23	767.8	59.9	15.5		ssw.			3		8		sw.	0	0	sm'h	sw.	cloudy.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 44° 15′, W. 139° 38′ †	30.19	766.8	59	15.0	94	wsw.			5		10		w.	shr's	shr's	mod	nnw	overcast.
S. S. Belgic, N. 29° 10′, E. 120° 49′†	29.95	760.7	83	28.3	75	se.			6		2		se.	0	0	mod.	sw.	clear.
S. S. Coptic, N. 45° 19′ E. 166° 21′	29.72	754.9	50	10.0	96	nnw.			4		10		n.	2 h'r	2 h'r	1	n.	overcast.
S. S. Gaelic Hong Kong, China †	29.81	757.2	81	27.2	96	sw.			2		5?		sw.					clear?
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga †	30.17	766.3				w.			1		1			0	0			clear.
S. S. Seminole, Boston, Mass †	30.07	763.8	80	26.7	74	s.			1		10		se.					rainy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 40° 13′, W. 124° 17′ †	30.07	763.8	52	11.1	93	nnw.			4		0					light	nw.	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 35° 15′, W. 120° 58′†	29.90	759.4	57	13.9	94	se.			2		8		se.			sm'h		cloudy.
S. S. City of Chester, San Francisco, Cal			54	12.2	?	nw.			5		5?		nw.					clear ?
S. S. Idaho, San Francisco, Cal †	29.97	761.2	54	12.2	93	sw.			3		10		sw.	0	0	sm'h		cloudy.
S. S. State of California, San Francisco, Cal †	29.98	761.5	54	12.2	?	w.			2		10		w.					overcast.
S. S. Victoria, Willamette River, Oregon †	30.14	765.5	55	12.8	93	calm			0					0	0	sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 31° 31′, E. 179° 20′	30.27	768.8	60	15.6	82	sse.			4		1		se.	0	0	sm'h		clear.
S. S. City of New York, Sydney, N. S. W †	30.05	763.3	62	16.7	77	sw.			2		5		sw.	0	0			fair.
S. S. City of Pekin, N. 41° 22′, E. 153° 02′†	29.85	758.2	72	22.2	85	wsw.			4		8		w.	0	0	small	w.	cloudy.
S. S. City of Rio de Janeiro, N 34° 06′, W. 120° 45′*†	30.16	766.1	62	16.7	88	nw.			5		6		nw.	0	0	mod.	nw.	hazy.
S. S. City of Tokio, N. 30° 27′, E. 131° 49′ †	30.02	762.5	79	26.1	?	sse.			2		5		n.	0	0	small	sw.	fine.
S. S. Colon, Aspinwall, Panama †	29.99	761.7	77	25.0		sse.			1		10		se.	3 h'r	3 h'r	mod.		overcast.
S. S. Costa Rica, N. 18° 45′, W 104° 30′ *	29.87	758.7	80	26.7	78	e.			8		5		ene.	light	light	hv'y	e.	fair.
S. S. Grenada, N. 14° 44′, W. 93° 16′†	29.97	761.2	82	27.8	75	wsw.			1		5?		e.	0	0	sm'h		clear ?
S. S. Zelandia, S. 22° 52′, W. 174° 43′	30.05	763.3	70	21.1	90	var.			1		0					sm'h		clear.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, Trinidad, W. I.	30.08	764.0	82	27.8		ene.			2		10			0	0	sm'h		overcast.
RED D LINE.																		
S. S. Valencia, La Guayra, Venezuela *†	30.22	767.6	83	28.3	79	ne.			1		1		ene.	0	0	sm'h	ne.	fine.
RED STAR LINE.																		
S. S. Belgenland, Philadelphia, Pa. †	30.19	766.8	73	22.8	90	calm			0		3							
S. S. Pennland, N. 41° 16′, W. 66° 12′	30.16	766.1				sw.			5		8		sw.	1½ h'r	1½ h'r	sm'h		overcast.
S. S. Rhynland, N. 49° 10′, W. 21° 15′	29.97	761.2	64	17.8	89	w.			6		10		wsw.	5 h'r	5 h'r	chop	wsw.	rainy.
S. S. Switzerland, N. 42° 12′, W. 44° 22′†	30.28	769.1				nw.			4		5		nw.	2 h'r	2 h'r	mod.	nw.	fair.
S. S. Vaderland, N. 49° 25′, W. 11° 45′	29.89	759.2	66	18.9	89	calm			0		10			4 h'r	4 h'r	mod.		overcast.
S. S. Waesland, N. 41° 48′ W. 53° 29′	30.22	767.6	76	24.4	82	sw.			3		0			0	0	sm'h	sw.	clear.
ROTTERDAM LINE.																		
S. S. Edam, Schonwen, Holland	29.65	753.1	67.8	19.9	92	sw.			6		7		sw.	0	0	high	sw.	cloudy.
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, Kingston, Jamaica, W. I	30.09	764.3	82	27.8		calm			0		2		n.	0	0			clear.
STATE LINE.																		
S. S. State of Florida, N. 44° 5′, W. 40° 53′	30.05	763.3	64	17.8		nne.			4		3		ne.	11 h'r	11 h'r	mod.	ne.	fair.
S. S. State of Indiana, N. 49° 26′ W. 72° 12′†	30.14	765.5	78	25.6		var.			1		4			4 h'r	4 h'r	sm'h		cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y†	30.22	767.6	76.1	24.5		se.			1		10		se.	5 h'r	5 h'r			covered.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 41° 00′, W. 51° 27′	30.30	769.6	75	23.9							1			0	0	2	wnw.	
WHITE STAR LINE.																		
S. S. Adriatic, N. 42° 33′, W. 60° 13′*†	30.36	771.1	66	18.9	92	ssw.			3		5		w.	0	0	g'tl	wnw.	blue sky.
S. S. Baltic, N. 50° 04′, W. 31° 46′	29.92	760.0	59	15.0	94	wsw.			4		5		wsw.	4 h'r	4 h'r	3	wsw.	d. clouds.
S. S. Celtic, N. 42° 27′ W. 49° 50′†	30.31	769.9	62	16.7	88	ssw.			2		0			0	0	sm'h		foggy.
S. S. Republic, Liverpool, Eng†	29.82	757.4	65	18.3	84	nnw.			3		2		nw.	0	0			blue sky.
WILSON LINE.																		
S. S. Otranto, N. 49° 58′, W. 11° 05′†	30.17	766.3	60	15.6		w.			2		5?		w.			long	w.	clear.?
S.S. Romano, New York, N. Y.	29.93	760.2	72	22.2		calm			0		10			0	0			overcast.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa†	30.02	762.5	74	23.3		ne.			1					0	0			
MISCELLANEOUS																		
Bk. Adelaide, N. 30° 33′, W. 53° 08*†	30.44	773.2	84	28.9		ese.			2		6		se.	8 h'r	8 h'r	mod.	ese.	clearing.
Schr. Anna A. Hilton, N. 35° 50′ W. 74 55′†	30.05	763.3	82	27.8		sw.			6		9		nw.	8 h'r	8 h'r	r'gh	sse.	cloudy.
Bk. Anna Thormann, S. 26° 35′, E. 106° 57′	30.04	763.0	65.3	18.5	77	nnw.			6		0			sh'rs	shr's	mod.	n.	clear.
S. S. Antonio Lopez, N. 36° 11′ W. 37° 43′*	30.41	772.4	77	25.0	72	sse.			1		2			0	0	sm'h		clear.
Bk. Argonaut, N. 40° 20′, W. 71° 32′*†	30.15	765.8	68.0	20.0		s.			2		10		ssw.	½ h'r	½ h'r	sm'h	s.	drizzling.
Bk. Aureola, N. 12° 40′ W 44° 27′*†	30.10	764.5	78	25.6		nw.			2		0			0	0	hv'y	sw	clear.
Bk. B. F. Watson, N. 17° 31′ W. 36° 12′†	30.09	764.3	80	26.7		e.			4		3		e.	12 h'r	12 h'r	sm'h		fine
Bk Bergenseren, N. 43° 13′ W. 32 55′†	30.17	766.3				ssw.			5		hz		ssw.	rain	rain	4	sw.	hazy.
Bk Bremen, N. 50° 39′ W. 31° 00′*†	30.02	762.5				w.			5		3		w.	5 h'r	5 h'r	mod.	wsw.	clear.
Bk. Cato, Malmö, Sweden*†	30.38	771.6				ene.			3									clear.
Bk. Celestina, N. 15° 53′, W. 25° 48′*†	30.04	763.0				ne.			2					0	0	long	sw.	
S. Dora, S. 14° 30′ W. 30° 05′†	30.28	769.1	80.6	27.0		ese.			2		4 ks		sse.	0	0	mod	se.	clear.
Schr. Edith R. Seward, N. 38° 26′, W. 76° 18′*†	30.01	762.2	80	26.7		n.			1		2		nnw.	0	0			clear.
S. E. J. Spicer, N. 41° 10′, W. 55° 20′*	30.27	768.8	78	25.6		ssw.			4		0			0	0	sm'h		clear.
S. Enoch Train, Holyhead, Wales†	29.90	759.4				w.			5		10		wnw.			light	w.	showery.
Bk. Essex, N. 11° 53′, E. 49° 51′*†	29.65	753.1	90	32.2		s.			1		0			0	0	sm'h		clear.
Bk. Franklin, N. 57° 30′, E. 5° 40′*†	29.84	757.9				e.			3		8					sm'h		cloudy.
Bk. Freya, N. 39° 02′, W. 63° 25′			84	28.9		s.			5		2		sw.	1 h'r	1 h'r	sm'h		clearing.
S. Glendon, N. 35° 00′ W. 47° 14′†	30.31	769.9	86	30.0		calm			0		10		s.	0	0	sm'h		fair.
Bk. Godfrey, N. 28° 41′, W. 20° 38′	30.19	766.8	73.9	23.3	79	nne.			5		8		ne.	shr's	shr's	mod.	nne.	cloudy.
S. Grecian, N. 10° 46′, E. 113° 10′*†	29.85	758.2	84	28.9		sw.			4		0			0	0	sm'h		clear.
Bk. Gronsvaer, N. 19° 20′ W. 35° 43′†	30.10	764.5				e.			6		5		ese.	3 h'r	3 h'r	mod.	ese.	fair
Bk. Hattie G. McFarland, Bath.*†	30.08	764.0	72	22.2		n.			1		10		n.	0	0			foggy.
Schr Hattie Weston, N. 28° 57′ W. 71° 38′*†	30.34	770.6	84	28.9		sse.			1		2		sw	0	0	mod.	ssw	fair.
Bk. Heinrich & Tonio, N. 48° 45′, W. 11° 17′*†	30.20	767.1	63	17.2		w.			5		5			7 h'r	7 h'r	mod.	nw.	clearing.
Schr. Henry Denison, N. 34° 02′, W. 72° 57′†	30.08	704.0				sw.			5		3		sw.			high	sw.	fair.
S. Ivy, S. 49° 03′, W. 93° 03′†	29.84	757.9	43	6.1		nnw.			6		10		nw.	7 h'r	7 h'r	r'gh	nw.	light rain.
S. Ismir, N. 3° 36′ E. 107° 00′†	29.90	759.4				sw.			1		2		sw.	0	0	sm'h		fine.
Schr. Jennie N. Huddell, Vineyard Sound, Mass†	30.03	762.7	73	22.8	100	s.			1		10		sw.	h'vy	hv'y			heavy rain.
Bk. Johanne, N. 40° 08′, W. 71° 50′*†	29.07	738.4	71	21.7		w.			5		5		sw.	light	light	sm'h		hazy.
Bg. John Wesley, Guanatamo, W. I†	29.89	759.2				ne.			1		1			0	0			clear.
Bk. Joseph A. Ropes, S. 38° 12′, E. 28° 20′*†.	29.93	760.2	54	12.2	79	wsw.			8		6		wsw.	3 h'r	3 h'r	h'vy	wsw.	cloudy.
Bkt. Josephine, Havana, Cuba, W. I†	30.09	764.3	82	27.8	78	ese.			1		0			0	0			clear.
S. S. Lamperts, N. 37° 25′, E. 6° 06′*	30.07	763.8	77.0	25.0	78	ne.			2		0							misty.
S. S. Laurel, Key West†	30.14	765.5	86	30.0		ese.			2		5		ese.	0	0			fair.
Bk. Liberia, N. 39° 47′, W. 73° 56′*	29.86	758.4	83	28.3	83	sw.			4		4			0	0			squally.
S. S. Madrid, N. 57° 56′, W. 1° 57′*†	29.76	755.9	57	13.9		var.			0–2		10			5 h'r	5 h'r	mod.	ese.	dense fog.
Schr. Maggie Abbot, Port au Prince, Hayti†	30.05	763.3												0	0			clear.
S. S. Malabar, N. 38° 04′, W. 126° 26′†	30.17	766.3				n.			7		0			0	0	str'g	n.	clear.
S. Minnie N. Gerow, N. 36° 24′, W. 6° 45′*†	30.02	762.5				nne.			5		0					sm'h	nne.	fine.
S. M. P. Grace, S. 24° 29′, W. 98° 29′*	30.34	770.6	63	17.2		se.			3				se.	0	0	sm'h	se.	overcast.
Bk. National Eagle, N. 42° 28′ W. 20° 42′†	30.36	771.1				sw.			1		2		w.	0	0	sm'h		fair.
S. S. Nebo, N. 36° 06′, W. 12° 20′*†	30.00	762.0				wnw.			6		3		w.	0	0	cross	nw.	clear.
S. Oracle, N. 37° 09′, W. 54° 15′*	30.31	769.9	79	26.1	95	ssw.					2			0	0	mod.	sw.	clear.
S. Orealla, N. 12° 51′, W. 33° 30′*	29.95	760.7				ene.			2		3		ene.	0	0	cross		clear.
Bk. Rosebud, S. 29° 32′, E. 57° 21′*†	30.38	771.6	64	17.8	100	e.			1		0			0	0			
S. St. Francis, N. 35° 45′ W. 46° 54′†	30.41	772.4	79	26.1		calm			0		1			0	0	sm'h	ene.	fine.
Schr. S. B. Hubbard, Gardiner, Me†	30.09	764.3	75	23.9		sw.			1		10			½ h'r	½ h'r			cloudy.
Bk. Sunbeam, N. 39° 59′ W. 30° 46′†	30.49	774.4	76	24.4	90	sw.			4		0			0	0	sm'h		clear.
S. S. Sunbeam, Brouwershaven, Netherlands	29.62	752.3	58	14.4	87	ssw.			6		8		ssw.					showery.
S. Sovereign Of The Sea, S. 50° 00′ W. 63° 48′*†.	29.80	756.9	44	6.7	100	wnw.			3		0			0	0	r'gh	s.	clear.
Bg. Teneriffe, N. 34° 06′, W. 74° 40′	30.01	762.2				s.			4							mod.		
U.S. F. C. S. S. Fish Hawk, Wood's Holl, Mass†	30.27	768.8	79	26.1	80	sse.			1		10		sw.	0.65	16.5			cloudy.
Schr. Victor Ping, N. 23° 43′, W. 66° 26′*†	30.13	765.3				ese.			4		1		se.			sm'h	ene.	fair.
Bk. Vincenzo Accame, N. 37° 56′, W. 57° 10′†	30.55	776.0	80.6	27.		w.			4		0							clear.
Schr. Viola Reppard, Savannah, Ga†	30.07	763.8	83	28.3		sw.					0			0	0			clear.
Bg. Wauburn, N. 19° 00′, W. 74° 00′*†	30.10	764.5				se.			2		0					sm'h	n.	
Bk. Warden Law, N. 56° 40′, W. 11° 03′*	29.69	754.1				w.			5				wsw.	0	0	cross		fair.
Wm. Woodbury, N. 53° 54′, E. 5° 38′*	29.87	758.7	66	18.9	89	wnw.			6		4		sw.			sm'h	s.	cloudy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 17, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.07	763.8	78.8	26.0	81	sw.			1		0			0	0	clear	Bouvier.
Algiers			30.06	763.5	81.0	27.2	71	ne.			2		0			0	0	clear	Thève.
La Calle			30.03	762.8	87.1	30.6	88	sw.			1		1			0	0	very fair	Fonfrède.
Tunis			30.03	762.7															Jacques.
Saida			30.09	764.4															Perès.
Tebessa			30.09	764.3	83.1	28.4	33	n.			1		0			0.016	0.4	fair	Rigaud.
Geriville					92.8	33.8	11	se.			4		4			0.008	0.2	cloudy	Lonchamp.
Laghouat			30.13	765.2	105.8	41.0	38	e.			2		0			0	0	clear	Abraham.
Biskra			30.10	764.4	102.6	39.2	20	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.94	760.5	30.03	762.7	51.4	10.8	92	sw.	5	2.2			10			0.10	2.5	showery	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.32	744.6	29.85	758.3	60.8	16.0	81	w.			1		10			0.217	5.5		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.82?	732 0?	29.57?	751.0?	61.5	16.4	75	w.	6.7	3.0			10			1.449	36.8		Dr. Wierzbiski.
Eperies	28.89	733.7	29.74	755.4	62.2	16.8	96	calm			0		10 ns		s.	1.937	49.2		Julius Mikolik.
Gratz	28.63	727.2	29.85	758.3	60.4	15.8	75	nw.			3		7			1.319	33.5		Andreas Rospini.
Hermannstadt	28.38	720.8	29.74	755.5	71.6	22.0	76	nw.			2		5			0.240	6.1	thnd'r storm	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.55	725.2	29.87	758.6	59.7	15.4	71	calm			0		10			0.102	2.6	raining	The Staff.
Lemberg	28.80	731.4	29.74	755.3	71.2	21.8	70	se.			4		8			0.701	17.8		Dr. T. Stanecki.
Pola	29.70	754 3	29.80	757.0	76.3	24.6	67	wsw.			3		4			1.217	30.9		I. R. Hydrographic Office.
Szathmar	29.28	743.0	29.72	754.9	73.4	23.0	76	se.			1		8			0.315	8.0		Joseph Midlinszky, S. J.
Szegedin	29.54	750.2	29.80	757.0	70.5	21.4	70	s.			2		6			0	0		Karl Stancel.
Trieste	29.72	755.0	29.83	757.6	71.2	21.8	48	ne.			3		2			0	0		Royal Academy.
Vienna	29.19	741.3	29.89	759.3	57.2	14.0	85	w.			3		10			0.350	9.0	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.67	753.6	29.77	756.1	58.6	15.3	87	ne.	8	3.6			6			0.025	0.6	d. clouds	W. Boswell
Armagh, Observatory	29.51	749.5	29.74	755.4				s.	14	6.3			5					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.82	757.4	63.2	17.3	64	wnw.	5	2.2			9					overcast	John Hartnup.
Bolton, Sharples	29.29	744.0	29.82	757.4	60.2	15.7	82	wsw.					10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.41	747.0	29.80	756.9	63.1	17.3	77	w.			1		6			0.01	0.3	d. clouds	McLandsborough & Preston
Bridgetown, Barbadoes	30.00	762.0	30.03	762.7	83.0	28.3	74	se.			1		6					gloomy	Corpl. J. Surgenor, A. H.C.
Cardington			29.79	756.7	65.0	18.3	89	nw.			0.4		10					overcast	John McLaren.
Chatham, School M. E.	29.72	754.9	29.84	757.9	58.6	14.8	93	calm			0		10			blank	blank	gloomy	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.67	753.6	29.90	759.4	60.5	15.8	87	sse.			2		10					rain & fog	The Staff.
Fort Napier, Natal	27.88	708.1	30.11	764.8	64.7	18.2	18	se.			4		3					blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.72	754.9	29.94	760.5	81.0	27.2	78	sw.			2		5					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.97	761.2	30.02	762.5	76.5	24.7	84	e.			3		5					d. clouds	Corpl. F. Norris, A. H.C
Glasgow, Observatory	29.56	750.8	29.77	756.1	64.0	17.8	75	wsw.			4		8					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.67	753.6	29.84	757.9	60.6	15.9	82	nw.			1		10					overcast	The Staff.
Guernsey	29.64	752.8	29.93	760.2	64	17.8	67	w.			1		0			blank	blank	blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.82	757.4	29.86	758.4	64.5	18.1	65	e.	9	4.0			10					threatening	The Staff.
Leicester, Museum	29.58	751.3	29.83	757.7	65.1	18.4	73	nw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.86	758.4	29.93	760.2	84.8	29.3	74	nw.			2		2					blue sky	W. D. Ballau.
Nassau, Bahamas	30.14	765.5	30.18	766.6	84.0	28.9	73	e.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.33	745.0	29.84	757.9	63.1	17.3	75	wnw.			3		10					overcast	Warren Middleton.
Oxford, Radcliffe Obs'y	29.62	752.3	29.85	758.2	64.0	17.8	65	wnw.			2		10					overcast	The Staff.
Plymouth	29.82	757.4	29.90	759.4	64.3	17.9	69	s.			2		0					blue sky	John Merrifield.
Sandwick Manse, Orkneys			29.76	755.9	59.2	15.1	90						8					misty	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.70	754.4	29.76	755.9	85.8	29.9	50	sw.			1		1					blue sky	W. H. Lyne.
Sheffield	29.55	750.6	29.82	757.4	69.0	20.6	72	wnw.			1		7			0.10	2.5	overcast	W. F. Cooper.
Stiloth Rectory	29.75	755.6	29.78	756.4	63.1	17.3	76	wsw.			3		5			0.025	0.6	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.86	758.4	61.0	16.1	74	sw.	10	4.5			10					overcast	I. New.
Stratfield Turgiss					67.8	19.9	64	w.			1		8					d. clouds	Rev. C. H. Griffiths, F.M.S.
Truro, Royal Institution	29.87	758.7	29.88	758.9	66	18.9	78	s.			4		10					raining	W. Newcombe.
Valencia, Observatory	29.78	756.4	29.80	756.9	60.0	15.6	98	w.	17	7.6			10					drizzling	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.60	751.8	29.64	752.8	71	21.7	96	se.	13	5.8			10 s		s.	0.130	3.3	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.57	751.1	29.63	752.6	69	20.6	97	e.	4	1.8			10 n		e.	0.33	8.4	heavy rain	G. A. Blair.
Father Point, Quebec*	29.57	751.1	29.59	751.6	49	9.4	96	nw.	7	3.1			10 s		calm	0.73	18.5	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.32	744.7	30.14	765.5	54	12.2	93	se.	8	3.6		0	0			0	0	clear	James Stewart.
Halifax, N. S*	29.57	751.1	29.69	754.1	67	19.4	100	sw.	7	3.1			fg.			0.292	7.4	dense fog	A. Allison.
Kingston, Ontario*	29.41	747.0	29.73	755.1	68	20.0	90	sw.	7	3.1		2 ck	5 s	w.	w.	inap.	inap.	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.48	748.8	29.07	753.6	70	21.1	90	w.	6	2.7			10 s		w.	0.19	4.8	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.16	740.7	29.83	757.7	61	16.1	93	n.	14	6.3			10 n		ne.	1.15	29.2	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.17	740.9	29.84	757.9	65	18.3	94	sw.	6	2.7		0	0			0.04	1.0	clear	H. Morgan.
Port Stanley, Ontario	29.25	742.9	29.87	758.7	65	18.3	90	w.	5	2.2		2 k	8 k	nw.	nw.	inap.	inap.	cloudy	M. Payne.
Quebec, Quebec*	29.34	745.2	29.65	753 1	61	16.1	100	calm			0		fg.			0.76	19.3	foggy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.34	745.2	29.78	756.4	63	17.2	84	n.	5	2.2		3 k	2 s	nw.	n.	0.68	17.3	fair	W. H. McIntyre.
Saugeen, Ontario*	29.18	741.2	29.87	758.7	64	17.8	93	n.	27	12.1			10 ks			0.06	1.5	cloudy	
St. Andrews, N .B	29.55	750.6	29.60	751.8	62	16.7	96	calm	0	0			fg.			0.90	22.9	foggy	
Sydney, C. B*	29.73	755.1	29.79	756.7	68	20.0	97	s.	9	4.0			10 n			0.16	4.1	light rain	T. C. Hill, C. E
Toronto, Ontario*	29.42	747.3	29.79	756.7	65	18.3	87	sw.	3	1.3		0	5 ks		w.	0.03	0.8	fair	Magnetic Observatory.
Yarmouth, N. S*	29.67	753.6	29.74	755.4	59	15.0	100	w.	15	6.7			fg.			0.21	5.3	foggy	Lt. F. E. Wilmot, R.N
Sub-series.																			
Mount Forest	28.47	723.1	29.83	757.7	62.0	16.7	97	wnw.			4		10			0.144	3.7	cloudy	Wm. Wylie.
St. Johns, Newfoundland	30.06?	763.5?	30.31?	769.9?	58	14.4	100	se.					10			0	0	hazy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.48	774.2	30.56	774.7	60	15.6	82	w.	17.1	7.6		0	4 k			0.400	10.2	hazy	C. Hansen.
Cape Town, C. G. H. Obs'y	30.29	769.4	30.32	770.1	65.6	18.7	53	s.	19	8.5		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent	From.	Miles p. hr.	Mtrs. p sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Hankow																			
Zi-Ka-Wei, near Shanghai	29.71	754.6	29.73	755.2	78.3	25.7	88	se.	16.8	7.5			0			0	0	clear	N. Titoushkin. M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.79	756.6	29.84	757.8	64.8	18.2	67	n.	11	5			5						Oversergent Fischer.
Fanöe	29.83	757.6	29.85	758.1	67.1	19.5	72	w.			4		2						Overloerer Lauridsen
Godthaab, Greenland	29.81	757.2	29.85	758.3	36.9	2.7	82	s.			4		10			0	0		S. Kleinschmidt.
Ivigtut	29.89	759.2	29.91	759.7	40.0	4.4		w.			4		10					foggy	
Stykkisholm, Iceland	29.70	754.3	29.74	755.4	44.2	6.8	84	e.			4		2						A. O. Thorlacius.
Thorshavn	29.68	753.8	29.71	754.7	51.3	10.7	94	calm	0	0			10						Overloerer Bergh.
Vestervig	29.77	756.2	29.80	758.5	63.5	17.5	69	nw.			2		1						Loearer Oesterbol.
French.																			
Agen, Normal School	29.43	747.5	30.07	763.7	70.5	21.4	75	wsw.			1		kn		sw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.43	747.4	29.98	761.4	65.5	18.6	71	sw.			1		10 n	s.	s.	0.04	1.	raining	M. Nicot, Director.
Arras, Engineer School	29.67	753.6	29.92	760.0	57.9	14.4	93	sw.			6		10					raining	M. Fénéon, Command't.
Avignon, Normal School	29.87	758.8	29.95	760.8	77.4	25.2	61	e.			1		5		nw.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.40	746.8	29.94	760.5	65.3	18.5	56	ssw.			1		8		w.	0.236	6.0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.65	753.2	29.91	759.7	64.6	18.1	67	w.			1		10		w.	0.323	8.2	covered	M. Frère Eugène Maris.
Besançon, Normal School	29.04	737.5	29.91	759.6	63.7	17.6	82	nw.			1		2		se.	0.606	15.4	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.80	756.9	30.06	763.4	69.1	20.6	100	w.			1		10		w.	0.106	2.7	covered	M. Rayet, Director.
Bourges, Normal School	29.42	747.3	29.96	761.0	68.0	20.	55	w.							w.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.73	755.2	29.98	761.4	63.3	17.4	92	sw.			1		10		sw.	0.931	0.8	rain and fog.	M. de Kermaree, Dir.
Caen, Normal School	29.79	756.6	29.86	758.4	56.5	13.8	89	w.			1		5		w.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.60	751.7	29.91	759.6	60.3	15.7	91	w.			1		8		w.	0.441	11.2	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.38	746.3	29.89	759.1	61.9	16.6	80	w.			3		10			0.75	19.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.64	727.5	29.95	760.7	71.2	21.8	56	nw.			2		5		w.	0.024	0.6	½ covered	M. Alluard, Director.
Cluny, Normal School	29.13	739.8	29.95	760.6	66.2	19	68	nw.			1		8		sw.	0.106	2.7		M. de Villemontée, Dir.
Commercy, Normal School	28.17	715.4	29.95	760.6	57.2	14	91	w.			3		kn	w.	w.	0.374	9.5		Dr. Coulet, Director.
Gap, Normal School	27.36	694.9	29.81	757.2	70.2	21.2	40	n.			3		0	3 kn	n.	0	0		M. Jeanjirard, Director.
Gréasque, du Rhone	28.87	733.4	29.95	760.6	78.1	25.6	45	sw.			2		3		s.	0	0		M. Kina, Director.
Grenoble, Normal School	29.14	740.2	29.89	759.2	60.8	16	98	nw.			2		10 n		nw.			light rain	M. Ablard, Director.
Lamballe, Normal School					70.9	21.6	40	w.			2		2		w.	0	0	slightly cl'dy.	M. Ollitrault, Director.
Lescar, Normal School	29.51	749.6	30.06	763.5	71.6	22.0	78	w.			3		10			0.110	2.8	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.91	759.7	30.01	762.3	63.3	17.4	86	s.			1		10			0.016	0.4	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.94	735.1	29.97	761.3	68.7	20.4	75	w.			1		8 kn		n.	0.091	2.3	¾ covered	M. André, Director.
Mans, Normal School	29.67	753.5	29.97	761.2	64.8	18.2	56	w.			1		5		wnw.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.72	754.9	29.98	761.6	72.0	22.2	63	wsw.			3		3		wnw.	0	0		M. Stephan, Director.
Montlouis	24.95	633.7	29.79	756.7	66.9	19.4	40	sw.	3.8	1.7				w.		0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.84	758.0	29.97	761.2	78.4	25.8	60	wnw.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.13	740.0	29.89	759.3	68.7	20.4	62	ssw.			1		5 kn			0.150	3.8	cloudy	M. Hasse, Director
Nantes, Observatory	29.89	759.3	30.06	763.4	72.0	22.2	55	wnw.			1–2	4 ck	0	wnw.		0.094	2.4		M. Larocque, Director.
Perpignan, Observatory	29.91	759.7	30.01	762.3	80.2	26.8	53	n.	20.6	9.2			7		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.40	543.5			41.0	5.0		w.			2		10		w.	0.118	3.0	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.88	733.6	29.91	759.7	71.6	22.0	50	n.			1		2			0	0	slightly cl'dy	M. Taillen.
Puy de Dôme Obs'y, Summit	25.47	639.2			48.9	9.4	100	w.			4		10			0.516	13.1	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	30.01	762.3	30.04	763.1	71.2	21.8	75	w.			1		5		w.	0.20	5.	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.81	757.1	30.02	762.4	69.3	20.7	69	w.			1		5		e.	0.335	8.5	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.93	709.3	30.02	762.4	63.3	17.4	88	w.			1		8		nw.	0.126	3.2	very cloudy	M. Seger, Director.
Rouen, Normal School	29.85	758.3	29.90	759.5	63.3	17.4	83	w.			2		5	nw.		0.547	13.9	cloudy	M. Brotier.
Saint Maur, Observatory	29.77	756.1	29.93	760.3	64.0	17.8	70	wsw.			1		10		w.	0.067	1.7		M. Renou, Director.
Toulouse, Observatory	29.40	746.7	30.12	765.1	68.9	20.5	90	w.			4		8	nw.		0.008	0.2	very cloudy.	M. Baillaud, Director.
Tours	29.80	757.0	29.98	761.5	68.7	20.4	54	wnw.			1		5	nnw.	nw.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.45	748.0	29.94	760.5	64.4	18.0	71	w.			2					0.004	0.1		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.64	752.9	29.89	759.3	66.9	19.4	66	sw.			1		8		sw.	0.087	2.2		M. Marié Davy, Director
German.																			
Ansbach	28.45	722.5	29.87	758.8	58.5	14.7	61	w.			4		9	w.		0	0		Prof. Jnedt.
Bamberg	29.01	736.8	29.86	758.4	62.0	17.0	67	wsw.			3	0	5 k		w.	0.039	1.0		Prof. Dr. Hoh.
Berlin	29.64	752.9	29.82	757.3	69.6	20.9	52	se.			2		10			0	0		Prof. Dr. Arndt.
Breslau	29.33	745.0	29.86	758.4	66.2	19.0	38	nw.			2		9			0	0		Royal University Obs'y.
Carlsruhe	29.48	748.7	29.91	759.7	59.7	15.4	77	sw.			5		9	sw.		0.748	19.0		Albert Senz.
Cassel	29.10	739.1	29.81	757.2	64.8	18.2	64	se.			2		8	ssw.		0.004	0.1		Dr. H. Möhl.
Frankfort-on-the-Main	29.48	748.7	29.84	757.9	62.2	16.8	73	wsw.			1		9			0.185	4.7		Physical Society.
Friedrichshafen	28.53	724.6	29.96	760.9	55.4	13.0	85	nw.			3		10	wsw.		0.303	7.7		Wilhelm, Chief Tel.
Hamburg	29.75	755.6	29.84	758.0	60.9	19.4	59	se.			2		6	se.		0	0		E. Preller.
Kiel	29.80	756.9	29.82	757.3	66.2	19.0	54	e.			2		5			0	0		Prof. Dr. G. Karsten
Leipsic, Astrom'l Obs'y	29.43	747.5	29.84	757.9	68.0	20.0	60	wsw.			2		9			0	0		H. Leppig, Asst.
Magdeburg	29.63	752.5	29.81	757.1	68.9	20.5	55	ese.			1	7 c	0	se.		0	0		Dr. Assmann.
Memel	29.81	757.1	29.85	758.3	79.9	26.0	47	se.			2	6 ck	0						Issermann.
Munich	28.11	714.1	29.97	761.3	57.0	13.9	70	nw.			4		10	nw.		0.087	2.2		Dr. C. Lang.
Neufahrwasser	29.76	756.0	29.78	756.4	68.7	20.4	79	ene.			1		10			0.374	9.5	light rain	A. Lothes.
Neustadt, Palatinate	29.32	744.6	29.84	757.8	62.4	16.9	65	wsw.			2		4	sw.		0.142	3.6		Dicknether.
Stuttgart	28.95	735.2	29.83	757.6	59.4	15.2	66	w.			1		10			0.689	17.5		Prof. Dr. Schoder.
Wustrow	29.85	758.2	29.88	758.9	65.8	18.8	57	n.			2	0	8 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.44	747.8	29.80	757.0	91.8	33.2		sw.			1.0		0			0	0		Schmidt & Wourlisch
Indian.																			
Kurrachee	29.66	753.5	29.72	754.8	83.0	28.3	75	wsw.	28.0	12.5			7		w.	0	0	d. clouds	
Deesa	29.18	741.1	29.64	752.9	88.6	31.4	51	wsw.	10.0	4.5			3	wsw.	sw.	0	0	d. clouds	
Bombay	29.75	755.7	29.79	756.6	82.3	27.9	79	wnw.	16.0	7.2			6	w.	wnw.	0	0	d. clouds	
Poona, Yarrowda	27.92	709.3	29.79	756.6	75.2	24.0	71	wnw.	16.0	7.2			9	w.	w.	0.17	4.3	d. clouds	
Trichinopoly	29.49	749.0	29.76	755.9	93.5	34.2	41	wnw.	1.0	0.4			6			0	0	d. clouds	
Bellary	28.26	717.7	29.69	754.2	89.0	31.7	44	nw.	12.1	5.4			9			0	0	gloomy	
Belgaum	27.28	692.8	29.84	758.0	69.2	20.7	95	wsw.	8.0	3.6			9		sw.	0.10	2.5	showery	
Lahore	28.77	730.7	29.48	748.8	96.7	35.9	47	w.	2.0	0.9			2			0	0	blue sky	
Roorkee	28.59	726.2	29.46	748.2	92.8	33.8	50	nw.	2.5	1.1			3			0	0		
Agra	28.96	735.6	29.50	749.3	95.1	35.1	47	w.	12.0	5.4			4		w.	0	0	d. clouds	
Nagpur	28.60	726.4	29.62	752.4	87.2	30.7	54	wnw.	4.0	1.8			8		w.	0	0	d. clouds	
Jubbulpore	28.27	718.1	29.60	751.8	87.8	31.0	57	nw.	4.3	1.9			4		nw.	0	0	d. clouds	
Lucknow	29.13	740.0	29.50	749.2	91.8	33.2	57	calm	3.9	1.7			0			0	0	blue sky	
Allahabad	29.22	742.1	29.52	749.8	89.2	31.8	65	se.	2.0	0.9			10			0.03	0.8	overcast	
Patna	29.37	745.9	29.55	750.5	87.2	30.7	76	w.	3.2	1.4			10	w.	w.	0	0	overcast	
Hazaribagh	27.60	700.9	29.58	751.4	79.3	26.3	83	ssw.	7.4	3.3			10		sw.	0.15	3.8	showery	
Cuttack	29.55	750.6	29.63	752.7	87.1	30.6	74	w.	5.6	2.5			7			0.01	0.3	d. clouds	
Calcutta, Alipore	29.57	751.1	29.59	751.6	84.6	29.2	87	sw.	4.0	1.8			9	sw.	sw.	0.17	4.3	d. clouds	
Dhubri	29.44	747.8	29.56	750.8	80.4	26.9	87	ssw.	2.4	1.1			9		wnw.	0	0	gloomy	
Chittagong	29.58	751.3	29.67	753.6	79.9	26.6	91	s.	4.4	2.0			7			0	0	d. clouds	
Sibsagar	29.23	742.3	29.56	750.7	83.0	28.3	89	sw.	6.0	2.7			10	w.	w.	1.25	31.8	d. clouds	
Jeypore	28.16	715.4	29.56	750.7	92.9	33.8	44	w.	5.8	2.6			2		w.	0	0	d. clouds	
Zanzibar, Africa	29.99	761.7			82.3	27.9	58	se.	10.2	4.6			8		sse.	0	0	d. clouds	
Italian.																			
Udine	29.45	748.0	29.84	758.0	71.4	21.9	63	e.	4.3	1.9			2			0.957	24.3		Prof. Giovanni Clodig.
Milan	29.32	744.7	29.82	757.3	77.9	25.5	51	se.	3.8	1.7			1			0.016	0.4		Prof. Schiaparelli.
Padua	29.72	755.0	29.83	757.7	77.5	25.3	56	ese.	3.8	1.7			3	sw.		0.236	6.0		Prof. Dott. Lorenzoni.
Moncalieri	28.89	733.8	29.76	756.0	76.1	24.5	50	ese.	4.9	2.2			1			0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Genoa	29.67	753.6	29.85	758.3	76.3	24.6	49	sw.	6.3	2.8			0			0	0		Prof. G. M. Garibaldi.
Mondovi	27.91	708.8	29.74	755.4	79.2	26.2	28	se.			4		0			0	0		Prof. D. C. Bruno
Pesaro	29.79	756.6	29.84	757.8	74.5	23.6	58	nne.	9.8	4.4			1			0.209	5.3		Prof. Luigi Guidi.
Florence	29.61	752.2	29.86	758.4	79.2	26.2	45	sw.			2		6			0	0		Prof. Costantino Pitter
Leghorn	29.74	755.3	29.82	757.4	75.2	24.0	57	w.	21.7	9.7			3			0	0		Prof. P. Monte.
Rome	29.73	755.1	29.90	759.4	82.4	28.0	42	sw.	9.4	4.2			4			0	0		Prof. P. Tachini.
Lecce	29.59	751.6	29.83	757.7	82.4	28.0	56	s.	9.4	4.2			0			0	0		Prof. C. de Giorgi
Cosenza	29.07	738.3	29.92	760.0	79.9	26.6	71	ssw.	2.5	1.1			3	sw.		0	0		Prof. D. Conti.
Cagliari	29.77	756.2	29.96	761.0	80.4	26.9	38	nw.			6		0			0	0		Prof. A. Pacinotti.
Palermo	29.72	754.8	29.96	760.9	86.7	30.4	31	w.	14.3	6.4			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.86	758.5	29.91	759.6	82.0	27.8	63	ne.	1.3	0.6			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.42	747.3	29.93	760.1	78.3	25.7	59	sw.	9.4	4.2			5	sw.		0	0		Prof. T. Brioschi.
Stelvio	22.12	561.7			45.1	7.3	81	sw.			4		4			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.15	562.5			49.1	9.5	53	n.			0		4			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.90	759.4	29.93	760.2	66.5	19.2	82	s.	6.1	2.7		0	1 s			0	0	fair	K. Ogawa.
Hakodate	29.87	758.7	29.88	758.9	68.5	20.3	73	nw.	6.0	2.7			0			0	0	clear	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.75	755.6	29.91	759.7	76.3	24.6	85	nnw.	1.4	0.6		0	5 s;ck			0	0	fair	M. Fojima.
Nagasaki, I. M. Obs'y	29.73	755.2	29.93	760.1	77.1	25.1	87	calm	0	0		0	0			0	0	clear	
Nemuro	29.94	760.5	30.00	762.0	61.5	16.4	100	nne.	3.0	1.3		10	0			0	0	cloudy	
Niigata	29.93	760.2	29.96	761.0	68.7	20.4	87	calm	0	0		0	2 cks			0.495	12.6	clear	M. Morita.
Nobiru	29.90	759.5	29.92	759.9	68.6	20.3	93	s.	2.6	1.2		0	0			0	0	clear	H. Midzushina.
Osaka	29.89	759.2	29.90	759.4	79.5	26.4	73	ene.	3.0	1.3		2 c	0			0	0	clear	
Sapporo					62.3	16.8	88	nw.	1.2	0.5			5			0.050	1.3	fair	
Tokei Obs'y, Yeddo	29.85	758.1	29.92	760.0	75.6	24.2	87	ese.	4.9	2.1		3 ck	5 s;ks		ene.	0.075	1.9	cloudy	The Staff.
Wakayama	29.86	758.4	29.91	759.7	79.5	26.4	78	ne.	3.3	1.5		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.95	760.7	30.14	765.5	73.0	22.8	64	e.	21.0	9.4		1 cs	4 k;n		e.	0.01	0.3	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato.†	23.75	603.2	29.97	761.2	58.5	14.7	91	nne.	0	0		5 c	0			0.020	0.5	fair	Prof. Vicente Fernandez.
Leon.†	24.41	620.0	30.09	764.3	59.4	15.2	95	wnw.			1	8 c	1 k	w.	w.	0.230	5.8	very cloudy	Prof. M. Leal.
Mazatlan	29.75	755.6	30.00	762.1	74.0	23.3	100	se.	1.0	0.8			10 n		se.	2.777	70.5	thnd'r storm	F. Quijano, C. E.
Mexico, Central Obs'y	23.18	588.7	30.22	767.6	52.9	11.6	86	calm			0	2 c	4 k	e.		0.232	5.9	½ cloudy	The Staff.
Morelia	24.22	615.1	30.22	767.6	59.4	15.2	61	se.			2	2	2	s.	se.	0.485	12.3	½ cloudy	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.01	609.9	30.00	762.0	61.0	16.1	94	calm			0	4 cs	0			inap.	inap.	clear	M. V. de Leon, M. E
Puebla, Catholic Institute	23.48	595.0	30.24	768.0	50.9	10.5	93	calm			0		10			0.902?	22.3?	covered	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	22.64	574.0	30.14	765.5	60.0	15.6	74	w.	4.8	2.1		3 cs	0	n.		0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.85	758.1	29.85	758.1	67.5	19.7		sw.			4					0.362	9.2		
Groningen	29.78	756.5	29.84	757.9	63.0	17.2		s.			1					0.102	2.6		
Helder	29.82	757.5	29.82	757.5	61.7	16.5		nne.			1					0	0		
Hellevoetsluis	29.84	757.8	29.84	757.8	66.9	19.4	60	w.			1					0	0		
Utrecht	29.79	756.6	29.84	757.8	64.2	17.9	67	sse.			1		8			0.071	1.8	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.73	755.2	29.80	756.8	62.2	16.8	88	s.	7	3			10			0	0		
Brono	29.72	754.8	29.76	755.8	76.6	24.8	49	ssw.	4	2			2			0	0		
Christiania	29.63	752.6	29.77	756.1	74.5	23.6	75	sw.	7	3			9					raining	
Gjesvær	29.92	759.9	29.94	760.5	51.1	10.6		ne.			2		10						
Lodingen	29.76	755.9	29.81	757.1	58.5	14.7	82	ne.			4		6			0	0		
PORTUGUESE.																			
Angra, Azores					74.8	23.8	64	w.	6.3	2.8			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.03	737.4	29.97	761.2	91.4	33.0	25	ene.	1.8	0.8			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.02	762.4	30.10	764.6	73.6	23.1	63	sw.	7.4	3.3			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.72	755.0	30.07	763.8	79.9	26.6	45	n.	17.4	7.8			0			0	0		The Staff.
Ponta Delgada, Azores	30.24	768.1	30.31	769.8	78.1	25.6	62	calm	0	0			4			0	0		
Saint Paul de Loando	29.81	757.1	30.01	762.3	71.1	21.7	81	se.			1		0			0	0		
Serra da Estrella	25.40	646.6	29.98	761.6	71.4	21.9	40	ese.	8.1	3.6			0			0	0		
RUSSIAN.																			
Akmolinski	28.67	728.2	29.73	755.2	54.3	12.4	61	n.	16	7			10 n			0	0		Major K. Lasarew.
Archangel	29.87	758.6	29.89	759.1	71.8	22.1	67	wnw.	13	6		0	0 ks			0	0		Capt. Sseliwerstow.
Astrakhan	29.90	759.4	29.82	757.3	83.8	28.8	46	se.	2	1		0	4 ks			0	0		Capt. Wisganow.
Barnaul	29.17	741.0	29.65	753.1	68.7	20.4	46	ne.	2	1			8			0	0		Meteorological Obs'y.
Dorpat	29.74	755.3	29.97	761.1	83.7	28.7	42	s.	7	3		cs	9 k			0	0		Observatory.
Ekaterinburg	28.90	734.0	29.82	757.3	73.9	23.3	44	nw.	9	4		c	9 kn			0	0		Meteorological Obs'y.
Irkutsk																			
Kasan	29.75	755.7	30.00	762.1	81.3	27.4	36	wsw.	2	1		0	0			0	0		Observatory.
Kertch	29.73	755.1	29.75	755.6	74.7	23.7	91	se.	4	2		0	0 n			0	0		Lagorio & Sastyrez.
Kieff	29.21	741.8	29.82	757.3	68.7	20.4	64	e.	10	7			10 ks;n						Observatory.
Lugan	29.60	751.7	29.80	756.8	69.8	21.0	87	e.	18	8			10			0.028	0.7		Meteorological Obs'y.
Moscow	29.54	750.4	29.98	761.6	79.9	26.6	45	s.	7.8	3.5		0	7 ks						Meteorological Obs'y.
Nikolaiev	29.73	755.1	29.80	756.9	74.5	23.6	75	n.	4	2		0	4 kn			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.61	752.1	29.75	755.7	77.5	25.3	88	calm	0	0			9 n			0.134	3.4	raining	Physical Observatory.
St. Petersburg	30.00	761.9	30.01	762.3	81.9	27.7	37	sso.	7	3		0	3 k			0	0		Central Physical Obs'y.
Semipalatinsk	29.01	736.8	29.63	752.7	68.7	20.4	55	nw.	20	9			8			0.433	11.0		Major Lasarew
Tashkend, Laboratory	28.22	716.9	29.69	754.2	83.5	28.6	21	nnw.	4	2			0			0	0		Teich, A. M.
Tiflis	28.41	721.6	29.72	755.0	91.0	33.1	35	n.	4	2		0	1 k			0	0		Physical Observatory.
Vladivostock	29.90	761.0	30.03	762.7	69.1	20.6	92	calm	0	0		0	6 k						
Warsaw	29.29	744.0	29.70	754.3	70.2	21.2	82	s.	13	6			9 k;ks						Astronomical Obs'y.
Wilna	29.49	749.0	29.88	759.0	80.8	27.1	50	sse.	11	5			2			0	0		Berg, Assistant.
Yeniseisk	29.50	749.3	29.77	759.2	73.0	22.8	66	ese.	2	1			8			0.012	0.3		M. O. Marks.
SCOTTISH.																			
Monach Lt.			29.68	753.9	58	14.4	93	s.			3	5	5	se.		0	0	cloudy	J. Youngclause.
North Unst			29.73	755.1				s.			2		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.91	759.6	30.00	762.1	78.4	25.8	64	se.	2.0	0.9		0	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.10	764.6	30.16	766.1	75.2	24.0	75	nw.	2.7	1.2		0	10			0.012	0.3	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.20	690.8	30.03	762.8	77.9	25.5	47	n.	3.1	1.4		0	4			0	0	clouds	Domingo Martin.
Madrid, Royal Obs'y	27.88	708.1	29.98	761.4	80.4	30.2	40	n.	3.1	1.4		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.89	759.3	30.05	763.2	87.6	30.9	68	ne.	4.5	2.0		0	0			0	0	clear	Olayo Diaz, Director
Oviedo	29.30	744.1	30.22	766.5	70.7	21.5	78	n.	3.4	1.5		0	7 n			0	0	cloudy	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.21	741.9	30.07	763.8	75.0	23.9	68	calm	0	0		0	6			0.008	0.2	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.03	762.8	30.10	764.5	79.1	26.2	83	e.	5.4	2.4		1 c	0	nne.		0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.5	29.88	758.9	82.2	27.9	79	sw.	20.9	9.3		1 c	2 k		sw.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.92	759.8	30.01	762.3	84.0	28.9	41	wnw.	3.0	1.3		0	0			0	0		Capt. C. Pujazon R. N.
San Juan de Porto Rico, W.I	29.95	760.7	30.04	763.0	80.6	27.0	92	se.	1.1	0.5		1 cs	3 k	e.	e.	0.189	4.8	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.67	753.6	29.80	756.9	79.7	26.5	91	nw.	1.6	0.7		7 cs	3 ks		sw.	0.03	0.8		José L. Yrastorza.
SWEDISH																			
Haparanda	29.89	759.2	29.93	760.2	69.8	21.0	68	sw.			4		0			0	0		
Umea	29.89	759.1	29.94	760.4	76.5	24.7	48	sw.			2		0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Hernosand	30.00	762.0	30.05	763.3	74.8	23.8	15	e.			2		1			0	0		
Stockholm	29.69	754.2	29.87	758.7	75.2	24.0	57	ese.			4		6			0	0		
Wisby	29.76	755.9	29.82	757.4	71.2	21.8	80	nw.			2		7			0	0		
Sub-series.																			
Upsala	29.75	755.6	29.84	757.8	79.3	26.3	51	se.	10.3	4.6			6	wsw.	se.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.54	724.9	29.92	760.0	69.1	20.6	59	ssw.			6		5			0.063	1.6	cloudy	The Observatory
Turkish.																			
Constantinople			29.82	757.3	83.8	28.8	44	s.	8	3.5			0			0	0		The Observatory.
Valona			30.03	762.8	82.9	28.3		w.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.77	756.1	86.5	30.3	61	w.			2	0	0			0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.71	754.6	29.79	756.7	75	23.9	82	sw.	5	2.2		1 c	8 ks		s.	0.01	0.3	cloudy	J. O. Barnes.
Alpena, Michigan	29.36	745.7	30.00	762.0	63	17.2	73	nw.	11	4.9		0	0			0.02	0.5	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.16	639.1	29.88	758.9	60	15.6	67	e.	1	0.4		0	0			0.02	0.5	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	27.10	688.3	29.84	757.9	61	16.1	72	e.	6	2.7		4 k	0	sw.		0	0	fair	B. O. Lenoir.
Atlanta, Georgia	28.91	734.3	30.06	763.5	73.5	23.1	90	nw.	2	0.9			10 s			0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.83	757.7	29.84	757.9	74	23.3	98	w.	7	3.1			10 n		w.	2.87	72.9	light rain	Jas. M. Watson.
Augusta, Georgia	29.89	759.2	30.08	764.0	77	25.0	82	sw.	2	0.9		9 k	0	sw.		0	0	cloudy	John Healy.
Baltimore, Maryland	29.84	757.9	29.88	758.9	75	23.9	90	s.	5	2.2		2 k	8 s;fg	w.	w.	0.41	10.4	cloudy	Robert Seyboth.
Barnegat, New Jersey	29.82	757.4	29.84	757.9	74.0	23.3	100	w.	14	6.3			10 n			1.68	42.7	light rain	G. A. Hill.
Bennett, Fort, Dakota	28.44	722.4	29.98	761.5	67	19.4	84	se.	7	3.1		0	1 k			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.13	689.1	29.92	760.0	65	18.3	58	calm	0	0		4 c	5 ks			0	0	cloudy	S. Wheaton.
Behring Island, Behring Sea	29.68	753.9	29.70	754.4	51.3	10.7		sw.	20	8.9			10 s			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.24	717.3	29.99	761.7	63	17.2	78	e.	8	3.6		2 c	0	w.		0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.77	756.1	29.80	756.9	72	22.2	97	sw.	9	4.0		7ck;cs	0	w;sw		0.23	5.8	fair	J. T. Elker.
Boise City, Idaho	27.13	689.1	29.88	758.9	55	12.8	69	n.	1	0.4		4 k	0	w.		0	0	fair	B. E. Light.
Boston, Massachusetts	29.62	752.3	29.77	756.1	74.0	23.3	84	w.	11	4.9		3 cs	hz.	w.		0.46	11.7	clear	O. B. Cole.
Brownsville, Texas	29.98	761.5	30.02	762.5	78.4	25.8	88	se.	4	1.8		6 c;cs	3 ks	se.	se.	0	0	threatening	M. McCarty.
Buffalo, New York	29.10	739.1	29.83	757.7	67	19.4	84	sw.	16	7.2		0	9 ks		sw.	0.01	0.3	cloudy	Clarence Weaver.
Buford, Fort, Dakota	27.98	710.7	29.92	760.0	67	19.4	76	e.	12	5.4		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.41	747.0	29.70	754.4	71.0	21.7	90	s.	7	3.1		1 ck	9 s	w.	w.	0.04	1.0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.71	754.6	30.10	764.5	71.7	22.1	83	n.	10	4.5		0	0			0.06	1.5	clear	W. H. Ray.
Campo, California	27.45	697.2	29.95	760.7	57	13.9	69	w.	2	0.9		5 ck	1 k			0	0	fair	W. H. Clendenon
Cape Henry, Virginia	29.92	760.0	29.94	760.5	76	24.4	82	sw.	12	5.4		2 ck	5 s			1.07	27.2	fair	A. K. Alderson.
Cape May, New Jersey	29.84	757.9	29.87	758.7	74.8	23.8	88	sw.	8	3.6			10 n			0.12	3.0	light rain	W. E. Smith.
Cape Mendocino	29.55	750.6			51	10.6	93	n.	20	8.9			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	30.12	765.0	30.14	765.5	81	27.2	79	s.	7	3.1		2 c	1 k			0.48	12.2	clear	F. W. Mixer.
Champaign, Illinois	29.27	743.4	30.06	763.5	62.8	17.1	87	n.	6	2.7		0	5 s		n.	0	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.03	762.7	30.08	764.0	81	27.2	82	sw.	6	2.7		5 ck	3 s	nw.	sw.	0	0	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.17	740.9	30.00	762.0	73.8	24.2	82	sw.	6	2.7			10 s		w.	0.31	7.9	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.24	742.7	30.05	763.3	71.5	21.9	92	sw.	6	2.7		0	9 ks;fg.		w.	0.27	6.9	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.19	614.4	29.89	759.2	53.3	11.8	43	nw.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.36	745.7	30.05	763.3	64.9	18.3	90	nw.	5	2.2		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	29.88	758.9	29.99	759.4	70	24.4	85	sw.	6	2.7		8 cs	0			0.02	0.5	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.37	746.0	30.01	762.2	68.8	20.4	78	nw.	4	1.8		2 k	0	nw.		0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.22	742.2	29.94	760.5	68	20.0	82	nw.	11	4.9			10 k		nw.	inap.	inap.	cloudy	J. B. Newlin.
Coleman City, Texas	28.32	719.3	30.06	763.5	69	20.6	90	s.	1	0.4			10 n			1.57	39.9	light rain	L. Dorman.
Columbus, Ohio	29.14	740.1	29.97	761.2	60	18.9	84	nw.	6	2.7			10 s		nw.	0.18	4.6	cloudy	D. Cuthbertson.
Concho, Texas	28.17	715.5	30.03	762.7	66	18.9	100	ne.	6	2.7			10 n		se.	1.82	46.2	light rain	W. W. McConihe.
Custer, Fort, Montana	26.75	679.4	29.81	757.2	64	17.8	50	s.	4	1.8		0	8 s		calm	0	0	cloudy	W. B. Lamar.
Davenport, Iowa	29.46	748.3	30.09	764.3	64	17.8	84	nw.	1	0.4		0	0			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.23	640.8	29.88	758.9	60	15.6	93	n.	3	1.3		0	fg.			0.18	4.6	fair	J. Williams.
Dayton, Washington T'y	28.32	719.3	30.03	762.7	51.5	10.8	82	sw.	4	1.8		1 k	4 s	sw.	sw.	0.14	3.6	threatening	H. Clifford.
Deadwood, Dakota	25.42	645.7	29.85	758.2	70	21.1	44	nw.	6	2.7		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					74	23.3	71	ne.	4	1.8			10 s		ne.	1.66	42.2	cloudy	D. J. Carr.
Delaware Breakwater, Del	29.87	758.7	29.89	759.2	74	23.3	100	w.	12	5.4			10 s		w.	0.06	1.5	cloudy	T. S. Townsend.
Denison, Texas																			J. McGlone.
Denver, Colorado	24.86	631.4	29.88	758.9	68.0	20.0	32	s.	6	2.7		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.27	743.4	30.15	765.8	61	16.1	87	n.	1	0.4		0	fg.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.27	743.4	29.96	761.0	64.4	18.0	90	nw.	6	2.7			10 s		nw.	0.83	21.1	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.57	700.3	30.05	763.3	65	18.3	78	sw.	2	0.9		0	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.42	747.3	30.11	764.8	61.7	16.5	85	nw.	1	0.4		0	fg			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.41	747.0	30.13	765.3	64	17.8	78	n.	9	4.0		0	5 s		ne.	0	0	fair	N. B. Conger.
Eagle Pass, Texas	29.27	743.4	30.06	763.5	74.0	23.3	84	se.	2	0.9		0	4 s			0	0	fair	F. Belford.
Eagle Rock, Idaho	25.28	642.1	29.83	757.7	60	15.0	54	s.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.57	751.1	29.64	752.8	63.0	17.2	93	sw.	6	2.7			10s;fg		w,sw	0.46	11.7	cloudy	D. O. Murphy.
Elliott, Fort, Texas	27.34	694.4	29.98	761.5	60	15.6	52	nw.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.35	669.3	29.95	760.7	68	20.0	76	ne.	5	2.2		2 ck	0			0.09	2.3	clear	J. F. Marshall
Erie, Pennsylvania	29.18	741.2	29.89	759.2	68	20.0	84	nw.	10	4.5			10 s		nw.	0.05	1.3	cloudy	Peter Wood.
Escanaba, Michigan	29.44	747.8	30.08	764.0	59	15.0	81	n.	3	1.3		0	0			0.32	8.1	clear	George Heathcote.
Fredericksburg, Texas	28.39	721.1	30.10	764.5	73	22.8	90	calm	0	0		1 cs	3 s			0.03	0.8	fair	Frank Halwegler.
Galveston, Texas	30.03	762.7	30.08	764.0	81	27.2	82	s.	4	1.8		1 c	4 ks		s.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.39	746.5	30.04	763.0	62.0	16.7	87	nw.	8	3.6		0	0			0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.33	643.4	29.90	759.4	62.9	17.2	84	e.	4	1.8		0	0			0.06	1.5	clear	Robert O. Lord.
Hatteras, North Carolina	30.00	762.0	30.02	762.5	80	26.7	88	sw.	20	8.9		6 ck	3 k	w.		0	0	cloudy	R. M. Crawford.
Helena, Montana	25.76	654.3	29.85	758.2	71	21.7	51	w.	5	2.2		4 ck	0	calm		0.03	0.8	fair	N. C. Smith.
Henrietta, Texas	29.20	741.7	30.20	767.1	70.0	21.1	100	s.	4	1.8			10 n			1.87	47.5	heavy rain	J. W. Byram.
Huron, Dakota	28.74	730.0	30.08	764.0	59.1	15.1	87	se.	6	2.7		1 k	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.26	743.2	30.03	762.7	63	17.2	90	n.	4	1.8		0	9 s		n.	inap.	inap.	cloudy	O. Schutze
Indianola, Texas	30.03	762.7	30.06	763.5	79.2	26.2	91	se.	4	1.8		2 cs	3 k	nw.	s.	0	0	fair	L. A. Reed.
Jacksboro, Texas	29.00	736.6	30.12	765.0	69	20.6	100	w.	6	2.7			10 n		w.	0.67	17.0	heavy rain	J. P. Sherry.
Jacksonville, Florida	30.09	764.3	30.13	765.3	80	26.7	82	sw.	8	3.6		3 ck	0	sw.		0.53	13.5	clear	J. W. Smith.
Keogh, Fort, Montana	27.34	694.4	29.77	756.1	72	22.2	48	sw.	3	1.3		3 c	0	sw.		0	0	clear	A. Schneider.
Keokuk, Iowa	29.44	747.8	30.07	763.8	67.0	19.4	78	calm	0	0		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.08	764.0	30.10	764.5	85.0	29.4	72	e.	8	3.6		0	3 k		e.	0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	29.99	761.7	30.01	762.2	78	25.6	88	sw.	15	6.7		0	8 s		sw.	0.02	0.5	cloudy	E. A. Beals.
Knoxville, Tennessee	29.03	737.3	30.04	763.0	68.5	20.3	98	sw.	3	1.3			10 s		sw.	0.84	21.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.37	746.0	30.12	765.0	64	17.8	78	calm	0	0		0	0			0	0	clear	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.28	743.7	30.14	765.5	64	17.8	84	calm	0	0		0	fg.			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.20	741.7	30.01	762.2	61.5	16.4	36	se.	3	1.3		0	7 ks		s.	0	0	fair	W. Bell.
Little Rock, Arkansas	29.75	755.6	30.06	763.5	75	23.9	97	calm	0	0		4 ck	0			0.06	1.5	fair	W. U. Simons.
Los Angeles, California																			Egbert van Dyke.
Louisville, Kentucky	29.45	748.0	30.00	762.0	69	20.6	84	n.	5	2.2		0	0			0.10	2.5	clear	H. C. Smyth.
Lynchburg, Virginia	29.27	743.4	29.94	760.5	74	23.3	71	sw.	2	0.9			10 ks		sw.	0.03	0.8	cloudy	Lewis Duane.
Macon, Fort, North Carolina	30.03	762.7	30.04	763.0	80	26.7	91	sw.	14	6.3		8 ck	1 s;hz	s.		0	0	cloudy	F. P. Chaffee.
Madison, Wisconsin	29.13	739.9	30.11	764.8	60	15.6	93	n.	3	1.3		0	fg.		n.	0	0	light fog	C. A. Shaw.
Maginnis, Fort, Montana	25.56	649.2			69	20.6	40	se.	10	4.5		10 cs	0			0.02	0.5	cloudy	H. W. Dodge.
McKavett, Fort, Texas	27.79	705.9	30.00	762.0	71	21.7	90	s.	4	1.8			10 n			0.32	8.1	light rain	J. E. Thatcher.
Marquette, Michigan	29.42	747.3	30.13	765.3	60	15.6	81	nw.	11	4.9		4 k	0	nw.		0.01	0.3	fair	J. Gilligan.
Memphis, Tennessee	29.72	754.9	30.05	763.3	75	23.9	94	w.	4	1.8		0	4 s		w.	0.14	3.6	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.35	745.5	30.08	764.0	62	16.7	87	nw.	7	3.1		0	fg.			0.01	0.3	clear	W. Line.

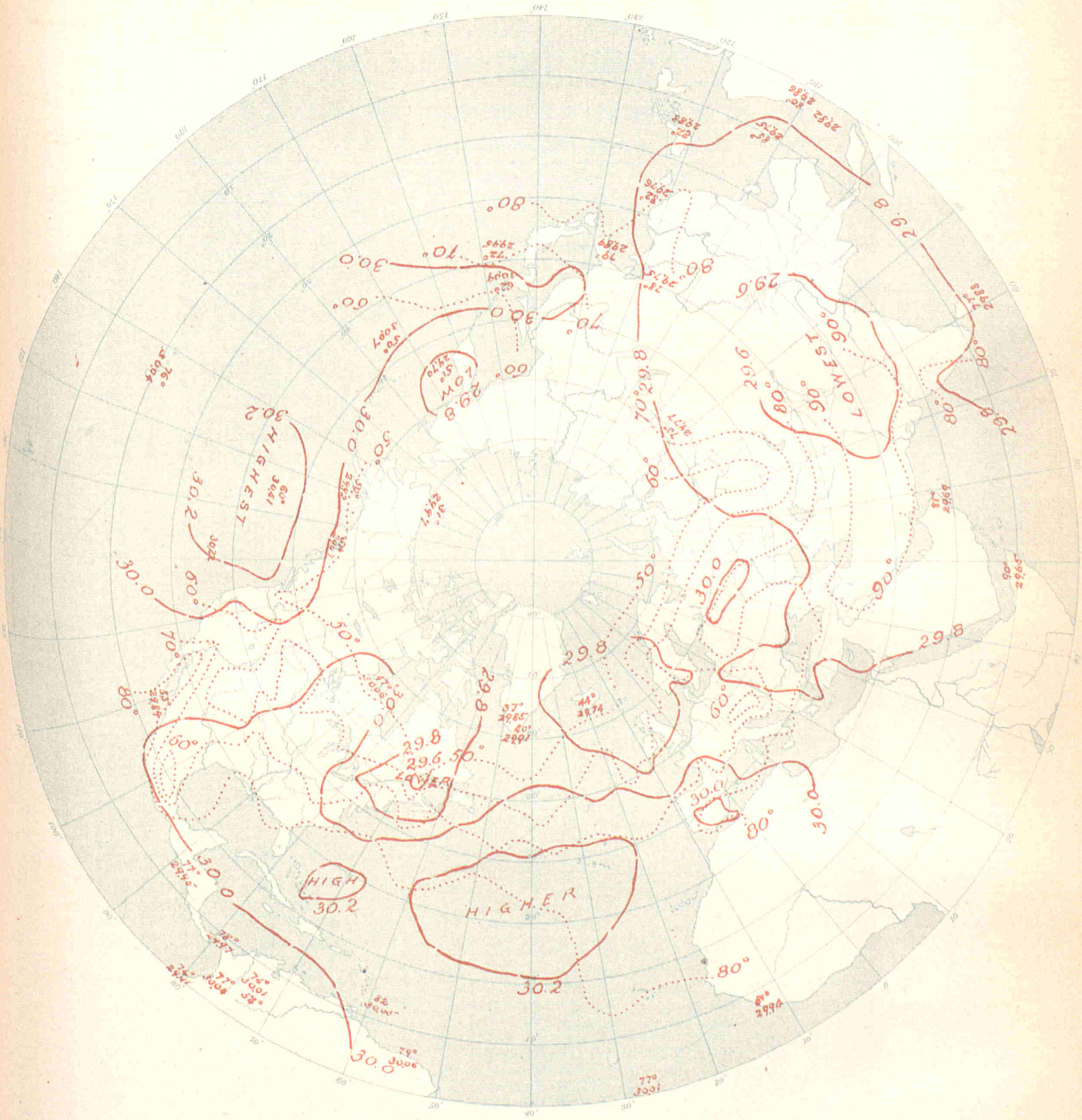
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.73	678.9	29.95	760.7	56	13.3	64	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.05	763.3	30.09	764.3	78.5	25.8	89	w.	1	0.4	.....	2 ck	0	sw.	.....	0	0	clear	C. A. Read.
Montgomery, Alabama	29.83	757.7	30.06	763.5	77.5	25.3	87	sw.	1	0.4	.....	7 ck	0	w.	.....	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.12	739.6	30.09	764.3	58.1	14.5	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.97	735.8	29.97	761.2	69.0	20.6	93	sw.	2	0.9	.....	0	9 s	.....	.....	0.75	19.0	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.65	600.7	29.73	755.1	51.0	10.6	100	nw.	63	28.2	.....	.....	fg.	.....	nw.	0.08	2.0	dense fog	J. G. Linsley.
Nashville, Tennessee	29.46	748.3	30.02	762.5	74.0	23.3	90	n.	3	1.3	.....	.....	10 ks	.....	w.	0.67	17.0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.69	754.1	29.80	756.9	73	22.8	90	calm	0	0	.....	8 ck	sk.	sw.	.....	0.20	5.1	cloudy	J. H. Sherman.
New London, Connecticut	29.76	755.9	29.81	757.2	74	23.3	97	sw.	3	1.3	.....	10 k	0	sw.	.....	0.93	23.6	cloudy	J. G. Lynch.
New Orleans, Louisiana	30.01	762.2	30.06	763.5	80.8	27.1	83	sw.	1	0.4	.....	1 c	sk.	.....	.....	0	0	clear	L. Dunne.
Newport, Rhode Island	29.76	755.9	29.81	757.2	73.0	22.8	94	sw.	6	2.7	.....	5 k	3 s	sw.	.....	0.36	9.1	cloudy	W. McGillivray.
New York, New York	29.66	753.4	29.84	757.9	72	22.2	100	sw.	5	2.2	.....	6 cs	fg.	sw.	.....	0.07	1.8	fair	J. B. Merrill.
Norfolk, Virginia	29.92	760.0	29.95	760.7	77	25.0	82	sw.	8	3.6	.....	4 cs	0	w.	.....	0.12	3.0	fair	Wm. Davis.
North Platte, Nebraska	27.19	690.6	29.99	761.7	63.6	17.6	73	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.15	765.8	30.19	766.8	47.5	8.6	86	s.	2	0.9	.....	5 ck	0	w.	.....	0	0	fair	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.96	761.0	29.97	761.2	31.2	— 0.4	99	ese.	17	7.6	.....	.....	10 s	.....	ese.	0	0	cloudy	P. H. Ray.
Omaha, Nebraska	29.02	737.1	30.16	766.1	64.0	17.8	90	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	A. Pollak.
Oswego, New York	29.46	748.3	29.78	756.4	70.6	21.4	82	w	8	3.6	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	S. W. Beall.
Palestine, Texas	29.57	751.1	30.11	764.8	75.0	23.9	85	sw.	4	1.8	.....	3 cs	0	.....	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.05	763.3	30.08	764.0	79.0	26.1	91	s.	2	0.9	.....	3 cs	4 s	w.	.....	inap.	inap.	fair	M. McGauran.
Philadelphia, Pa.	29.76	755.9	29.86	758.4	75	23.9	90	sw.	4	1.8	.....	.....	10s; hz	.....	w.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.14	460.7	29.94	760.5	34	1.1	71	calm	0	0	.....	0	0	.....	.....	0	0	clear	L. M. Dey.
Pioche, Nevada	24.23	615.4	29.93	760.2	66.8	19.3	45	s.	8	3.6	.....	2 k	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.13	739.9	29.92	760.0	67.4	19.7	90	w.	6	2.7	.....	.....	10 s	.....	w.	0.34	8.6	cloudy	J. B. Turton.
Poplar River, Montana	27.77	705.3	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.07	763.8	30.08	764.0	80.0	26.7	91	calm	0	0	.....	0	1 k	.....	.....	0	0	clear	M. Hermann.
Port Huron, Michigan	29.26	743.2	29.92	760.0	62.3	16.8	93	nw.	6	2.7	.....	.....	10 s	.....	nw.	0.28	7.1	cloudy	W. O. Bailey.
Portland, Maine	29.63	752.6	29.68	753.9	71.0	21.7	90	sw.	8	3.6	.....	hz.	hz.	.....	.....	0.15	3.8	light haze	W. W. Eichelberger.
Portland, Oregon	30.10	764.5	30.17	766.3	53.0	11.7	80	nw.	2	0.9	.....	3 k	2 s	.....	.....	0	0	fair	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	80	26.7	91	se.	14	6.3	.....	4cs; ck	4 s	.....	.....	0	0	cloudy	F. S. Coburn.
Prescott, Arizona	24.91	632.7	29.89	759.2	61	16.1	84	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	29.74	755.4	29.77	756.1	72	22.2	97	sw.	8	3.6	.....	2 ck	3 s	sw.	.....	0.74	18.8	fair	P. T. Jenkins.
Punta Rassa, Florida	30.11	764.8	30.12	765.0	78	25.6	88	e.	6	2.7	.....	0	1 k	.....	calm	inap.	inap.	clear	W. J. Evans.
Red Bluff, California	.....	.....	.....	.....	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.85	758.2	30.09	764.3	75	23.9	85	se.	6	2.7	.....	4 cs	0	.....	.....	0	0	fair	H. S. Miles.
Rochester, New York	29.14	740.1	29.79	756.7	65.5	18.6	88	w.	15	6.7	.....	0	8 k	.....	w.	0.12	3.0	threatening	E. W. McGann.
Roseburg, Oregon	29.65	753.1	30.19	766.8	50	10.0	81	ne.	1	0.4	.....	4 k	0	n.	.....	0	0	fair	J. J. Nanry.
Sacramento, California	29.90	759.4	29.97	761.2	59.0	15.0	70	se.	9	4.0	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.52	749.8	30.10	764.5	67.5	19.7	93	n.	4	1.8	.....	0	0	.....	.....	inap.	inap.	clear	J. H. Webber.
St. Paul, Minnesota	29.25	742.9	30.09	764.3	65.0	18.3	90	sw.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.27	743.4	30.12	765.0	54	12.2	93	e.	5	2.2	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.64	651.2	29.83	757.7	77.2	25.1	47	se.	4	1.8	.....	.....	10 ks	.....	sw.	0	0	cloudy	J. Craig.
San Antonio, Texas	29.39	746.5	30.08	764.0	75.0	23.9	90	sw.	1	0.4	.....	0	8 s	.....	s.	0	0	cloudy	T. J. Kenan.
San Diego, California	29.91	759.7	29.98	761.5	68.6	20.3	85	w.	1	0.4	.....	0	2 s	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.29	744.0	29.95	760.7	67	19.4	84	n.	20	8.9	.....	.....	10 s	.....	n.	0.02	0.5	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.80	756.9	29.84	757.9	74.0	23.3	90	w.	6	2.7	.....	0	9 ks	.....	w.	0.71	18.0	cloudy	B. A. Blundon.
San Francisco, California	29.97	761.2	30.04	763.0	54	12.2	86	sw.	11	4.9	.....	0	0	.....	.....	0	0	clear	N. Green.
Santa Fé, New Mexico	23.44	595.4	29.93	760.2	54	12.2	74	ne.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	30.00	762.0	30.09	764.3	82	27.8	75	sw.	8	3.6	.....	2 c	0	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.35	669.3	29.88	758.9	57	13.9	83	w.	5	2.2	.....	4 k	0	sw.	.....	0.04	1.0	fair	A. L. Mathews.
Shreveport, Louisiana	29.83	757.7	30.06	763.5	75	23.9	97	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.88	733.5	30.06	763.5	72.5	22.5	95	n	1	0.4	.....	.....	10 s	.....	n.	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.42	620.3	29.88	758.9	55	12.8	72	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.91	759.7	29.97	761.2	51	10.6	93	ne.	8	3.6	.....	.....	10 ks	.....	ne.	0.06	1.5	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.62	752.3	30.08	764.0	70.9	21.6	90	calm	0	0	.....	2 c	0	w.	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.01	762.2	30.05	763.3	81	27.2	79	sw.	9	4.0	.....	2 c	1 k	sw.	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.01	711.4	30.01	762.2	59	15.0	67	s.	12	5.4	.....	9 ck	0	sw.	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.44	747.8	30.10	764.5	67.4	19.7	82	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.66	753.4	29.79	756.7	76.8	24.9	76	s.	3	1.3	.....	3 c	0	sw.	.....	0.02	0.5	clear	T. S. Outram.
Springfield, Mo.	28.72	729.5	30.11	764.8	66	18.9	90	n.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	J. B. Marbury.
Starkville, Miss.	29.59	751.6	30.06	763.5	79	26.1	82	w.	5	2.2	.....	2 cs	1 s	.....	.....	0	0	clear	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.19	716.0	29.97	761.2	61	16.1	90	se.	6	2.7	.....	2 cs	4 ks	nw.	.....	0	0	fair	W. Burrows.
Stockton, Fort, Texas	27.08	687.8	30.02	762.5	65.0	18.3	93	sw.	4	1.8	.....	.....	10 s	.....	sw.	0	0	cloudy	J. O'Dowd.
Thomas Camp	27.28	692.9	29.90	759.4	68	20.0	90	calm	.....	.....	0	0	0	.....	.....	0.01	0.3	clear	
Thatcher's Island, Mass.	29.70	754.4	29.75	755.6	60.0	15.6	93	s.	12	5.4	.....	.....	fg.	.....	.....	0.25	6.3	dense fog	G. Liebmann.
Toledo, Ohio	29.28	743.7	29.95	760.7	66	18.9	78	nw.	8	3.6	.....	.....	10 ks	.....	nw.	inap.	inap.	cloudy	A. Buell.
Tucson, Arizona	27.58	700.5	29.92	760.0	71	21.7	82	s.	2	0.9	.....	0	2 ks	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.74	755.4	30.10	764.5	57	13.9	57	w.	5	2.2	.....	5 cs	0	sw.	.....	0	0	fair	J. Daly.
Uvalde, Texas	29.09	738.9	30.03	762.7	75	23.9	90	se.	3	1.3	.....	.....	10 s	.....	sw.	0.01	0.3	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	70.1	21.2	59	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.83	757.7	30.07	763.8	74	23.3	97	sw.	2	0.9	.....	0	3 k	.....	s.	0	0	clear	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.54	623.3	29.88	758.9	54.0	12.2	57	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	29.77	756.1	29.88	758.9	74.7	23.7	90	sw.	2	0.9	.....	9 cs	0	w.	.....	0.21	5.3	cloudy	F. M. M. Beall.
West Las Animas, Colorado	26.20	665.5	29.95	760.7	57.5	14.2	67	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.26	743.2	29.84	757.9	69	20.6	76	nw.	1	0.4	.....	0	0	.....	.....	0.60	15.2	clear	B. F. Hough.
Wilmington, N. Carolina	29.99	761.7	30.04	763.0	80	26.7	88	sw.	5	2.2	.....	4 c	0	.....	.....	0	0	fair	Samuel A. Haney.
Winnemucca, Nevada	28.65	651.5	29.88	758.9	55	12.8	31	sw.	6	2.7	.....	0	3 s	.....	sw.	0	0	clear	J. Grover.
Yankton, Dakota	28.86	733.0	30.13	765.3	61	16.1	72	e.	1	0.4	.....	4 ck	0	.....	.....	0	0	fair	J. H. Attfield.
Yuma, Arizona	29.71	754.6	29.85	758.2	84.3	29.1	59	se.	10	4.5	.....	8 ck	2 s	se.	se.	0	0	cloudy	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3	.....	.....	54.0	12.2	71	w.	4	1.8	.....	0	2 s	.....	e.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I.	30.04	763.0	30.05	763.3	82	27.8	95	e.	.....	.....	.....	0	5 ks	.....	.....	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.01	762.2	30.04	763.0	77	25.0	90	s.	4	1.8	.....	.....	10 ks	.....	s.	0.80	20.3	cloudy	J. I. Plume.
Havana, Cuba†	30.03	762.7	30.09	764.3	80	26.7	82	e.	4.8	2.1	.....	0	0	.....	.....	0	0	clear	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	76.0	24.4	84	nnw.	2	0.9	.....	9 cs	0	nw.	.....	0.20	5.1	cloudy	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	78	25.6	.....	e.	.....	.....	2	0	6 ck	.....	e.	0	0	.....	S. M. Pike.
Navassa, W. I.	29.90	759.4	29.98	761.5	81	27.2	74	e.	3	1.3	.....	2 k	3 ks	ne.	e.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.06	763.5	30.06	763.5	79	26.1	87	se.	.....	.....	1	5 ck	0	.....	.....	0.820	20.8	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.45	748.0	30.01	762.2	74	23.3	80	calm	.....	.....	0	.....	10 ks	.....	n.	0.73	18.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	98	ne.	.....	.....	1	3 ck	1 ks	ne.	ne.	0.04	1.0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.86	758.4	29.92	760.0	50	10.0	100	calm	.....	.....	0	.....	10 n	.....	.....	0	0	dense fog	W. J. Fisher.
St. Thomas, W. I.	29.95	760.7	30.08	764.0	82	27.8	72	e.	.....	.....	.....	0	2 k	.....	e.	0.05	1.3	clear	Aug. Walloe.
York Factory, B. A.	30.00	762.0	30.06	763.5	47.0	8.3	92	s.	11	4.9	.....	1 c	0	s.	.....	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, N. 31° 59′ W. 36° 52′	30.29	769.4	80	26.7	66	ne.			1		3							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.82	757.4	82	27.8	78	nw.			1-2		0					1	wnw.	blue sky.
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.24	768.1	70	21.1	90	se.			1		7	s.						misty.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.83	757.7	84	28.9		n.			2		1							blue sky.
H. M. S. Arab, N. 23° 42′, E. 58° 12′	29.59	751.6	88	31.1	88	nnw.			2		3	n.				3	n.	misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.34	770.6	60.5	15.8		se.			4-5		0							blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	30.13	765.3	52	11.1	72	calm			0		4							d. clouds.
H. M. S. Diamond, S. 10° 22′, E. 161° 55′	29.97	761.2	79	26.1	86	sse.			5-6		10	n.				3	sse.	squally.
H. M. S. Dido, N. 17° 55′, W. 77° 00′	30.07	763.8	80	26.7		calm			0		0							blue sky.
H. M. Dock-Yard, Bermuda, W. I.	30.17	766.3	79.5	26.4	86	sse.			1		4	sse.						d. clouds.
H. M. S. Fantome, N. 17° 37′, W. 75° 37′	30.02	762.5	85	29.4		ene.			2		3	ene.				3	ene.	d. clouds.
H. M. S. Flying Fish, N. 32° 44′, E. 129° 52′	29.88	758.9	83	28.3	89	calm			0		4							misty.
H. M. S. Gannet, S. 8° 40′, W. 80° 15′	30.07	763.8	60.5	15.8	94	sse.			4-5		7							drizzling.
H. M. S. Griffon, N. 47° 28′, W. 55° 48′	29.99	761.7	59.5	15.3	88	se.			2		10							foggy.
H. M. S. Iron Duke, N. 43° 07′, E. 131° 55′	29.94	760.5	73	22.8	95	calm			0		5							d. clouds.
H. M. S. Lark, S. 10° 16′, E. 161° 35′	30.02	762.5	79.3	26.3	93	ese.			3		5					3	se.	misty.
H. M. S. Liffey, Coquimbo, Chili	30.12	765.0	55	12.8		e.			1									d. clouds.
H. M. S. Magpie, N. 35° 06, E. 129° 03′	29.91	759.7	79.5	26.4	87	ssw.			1		0							misty.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.80	756.9	80	26.7	84	nw.			2		0							misty.
H. M. S. Northampton, Halifax, Nova Scotia	29.67	753.6	67.5	19.7	94	sw.			4		10							misty.
H. M. S. Pegasus, N. 2° 25′, E. 110° 15′	29.86	758.4	80	26.7	78	calm			0		4							d. clouds.
H. M. S. Sappho, Honolulu, Sandwich Island	30.04	763.0	76	24.4	95	ne.			2		3							d. clouds.
H. M. S. Swiftsure, S. 36° 15′, W. 74° 45′	30.25	768.3	55	12.8	87	nnw.			2		8	wnw.				2	wsw.	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	29.93	760.2	53	11.7	93	nne.			4		10							showery.
H. M. S. Tenedos, N. 49° 36′ W. 55° 56′	29.89	759.2	61	16.1	88	s.			1		10							overcast.
H. M. S. Triumph, Montevideo, Uruguay	29.92	760.0	54	12.2	93	nne.			5-6		10	nnw.				7	nne.	raining.
H. M. S. Woodlark, N. 25° 38′, E. 57° 33′	29.58	751.3	88.5	31.4	72	se.			6		5	ne.				6	e.	dense mist.
PORTUGUESE NAVAL.																		
Rio Lima, Fogo, Cape Verd Islands	30.07	763.7	81.5	27.5	85	ne.			1		4					1	se.	d. clouds.
Tamega, Macao, China	29.63	752.7	85.5	29.7	82	sw.			3		9		sw.	½ h'r	½ h'r			overcast.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.96	761.0	80	26.7	91	n.	2	0.9			8		sw	0	0			fair.
Navy Yard, Portsmouth, N. H.	29.73	755.1	72	22.2	90	nw.	8	3.6			0			0.20	5.1			clear.
Naval Hospital, Yokohama, Japan*	29.77	756.1	76	24.4	82	calm			0		8		w.	0.03	0.8			clearing.
Adams, Mare Island, Cal.			58	14.4	100	sw.			4		0			0	0	sm'h		clear.
Alaska, S. 3° 10′ W. 124° 25′	29.98	761.5	72	22.2	90	ene.			3		2		e.	0	0	sm'h		fair.
Alliance, Portsmouth, N. H.	29.74	755.4	71	21.7	95	wnw.			1		2			0	0	sm'h		clear.
Ashuelot, Yokohama, Japan*	29.81	757.2	78	25.6	91	sw.			1		5		calm					fair.
Brooklyn, Rio de Janeiro, Brazil	30.27	768.8	73	22.8	95	sse.	9	4.0			2		se.	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.81	757.2	73	22.8	95	w.	7	3.1			10		calm	0.01	0.3			overcast.
Constellation, N. 38° 03′, W. 73° 29′*	29.96	761.0	79	26.1	86	sw.			5		10		sw.			mod.	sw.	cloudy.
Enterprise, Portsmouth, N. H.	29.72	754.9	70	21.1	95	w.			1		2		w.					clear.
Essex, Coquimbo, Chili	30.18	766.6	58	14.4	64	ese.			0-1		2					sm'h		fair.
Franklin, Norfolk, Va.	29.96	761.0	76	24.4	91	sw.	6	2.7			5		sw.	0.11	2.8			fair.
Galena, N. 14° 45′, W. 26° 40′	30.09	764.3	81	27.2	91	ene.			2		2		ne.			mod.	e.	clear.
Hartford, N. 41° 08′, W. 33° 32′*	30.11	764.8	74	23.3	95	wsw.			2		8		sw.	sh'rs	shr's	sm'h	sw.	rainy.
Independence, Navy Yard, Mare Island, Cal.	30.02	762.5	57	13.9	87	sw.			4		0			0	0			clear.
Iroquois, N. 19° 24′, W. 106° 07′	29.96	761.0	82	27.8	79	ese.			3		8		ese.			long	ese.	threatening.
Kearsarge, Norfolk, Va	29.94	760.5	77	25.0	91	wsw.			2		5							fair.
Lackawanna, Callao, Peru*	30.09	764.3	60	15.6	94	se.			1		8		s.					cloudy.
Lancaster, Villafranca, France*	29.80	756.9	77	25.0	61	se.			2		0			0	0	mod.	s.	clear.
Marion, S. 34° 54′, W. 56° 13′	29.90	759.4	53	11.7	100	ne.			6		10		ne.	mod.	mod.	mod.	ne.	rainy.
Michigan, Chicago, Illinois	30.01	762.2	65	18.3	89	nnw.			1		0							clear.
Minnesota, New York, N. Y.	29.86	758.4	75	23.9	90	ssw.	1	0.4			2							clear.
Monocacy, N. 37° 27′, E. 126° 33′	29.89	759.2	79	26.1	86	e.			1		8		s.					fair.
New Hampshire, Newport, R. I.	29.83	757.7	72	22.2	95	s.			3		8					sm'h		cloudy.
Nipsic, Villafranca, France*	29.76	755.9	76	24.4	58	ene.			2		0					long	ssw.	clear.
Onward, Callao, Peru†	30.17	766.3	59	15.0	100	calm			0		8					long	w.	cloudy.
Palos, Kobe, Japan*	29.85	758.2	78	25.6	86	calm			0		2		calm					fair.
Passaic, Washington, D. C.			76	24.4	95	sw.			2		10							cloudy.
Pensacola, N. 0° 29′, W. 80° 41′*	29.91	759.7	74	23.3	81	s.			4		10		sw.	0	0	mod.	ese.	cloudy.
Portsmouth, Gibraltar, Mediterranean*	30.01	762.2	75	23.9	72	se.			4		2		e.					fair.
Powhatan, Norfolk, Va.	29.96	761.0	80	26.7	78	w.			2		5							fair.
Quinnebaug, Alexandria, Egypt*	29.78	756.4	80	26.7	96	nnw.			3		0					sm'h		clear.
Ranger, Mare Island, Cal.	30.04	763.0	59	15.0	76	sw.			3		0			0	0			clear.
Richmond, Yokohama, Japan*	29.83	757.7	77	25.0	91	nw.			1		5		nw.	0	0			fair.
Saratoga, N. 37° 06′, W. 1° 37′	29.98	761.5	78	25.6	81	ese.			3		5		ese.	0	0	sm'h		fair.
St. Louis, League Island, Pa.	30.07	763.8	76	24.4	86	sw.			2		8		sw.	0	0			misty.
Swatara, N. 21° 34′, E. 113° 42′*	29.44	747.8	81	27.2	83	sw.			4		10		s.			sm'h		cloudy.
Tennessee, Portsmouth, N. H	29.77	756.1	72	22.2	95	w.	10	4.5			2			0.16	4.1			clearing.
Vandalia, Portsmouth, N. H*	29.70	754.4	73	22.8	90	wsw.			1		9?		calm					clear ?
Wabash, Boston, Mass.	29.76	755.9	73	22.8	85	wsw.	7	3.1			2		sw.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska	30.27	768.8	51	10.6	100	e.			1		10		calm			sm'h		rainy.
Wyoming, Port Royal, S. C*	30.07	763.8	78	25.6	86	sw.	14	6.3			2		calm	0	0			clear.
Yantic, Portsmouth, N. H	29.70	754.4	69	20.6	80	w.			1		2							fair.
MERCHANT MARINE.																		
ALLAN LINE.																		
S. S. Grecian, Malta, Mediterranean *	29.98	761.5	84	28.9		wsw.			2		0			0	0	sm'h		clear.
S. S. Nova Scotian, N. 51° 51′ W. 13° 44′	29.76	755.9	61	16.1		wnw.			4		10		wnw.			mod	wnw	cloudy.
S. S. Polynesian, Liverpool, Eng*	29.70	754.4	69	20.6		nnw.			2		5		n.	0	0			fair.
S. S. Waldensian, N. 55° 30′ W. 7° 11′ *	29.79	756.7	57	13.9		sso.			2		8		sw.	shr's	sh'rs	mod.	wsw.	showery.
AMERICAN STEAMSHIP COMPANY.																		
S. S. Indiana, Philadelphia, Pa †	29.92	760.0	81	27.2	95	w.			2		2		w.					fine.
S. S. Lord Clive, N. 42° 10′ W. 51° 46′ *†	30.10	764.5				s.			3		9		sw.	0	0	sm'h		cloudy.
S. S. Lord Gough, N. 45° 23′, W. 55° 34′	29.97	761.2	65	18.3		sse.			3		10		sse.	1 h'r	1 h'r	sm'h		hazy.
S. S. Ohio, N. 39° 03′ W. 71° 59′ †	29.84	757.9	77	25.0	95	s.			1		5		s.					fair.
AMSTERDAM LINE.																		
S. S. Jason, N. 49° 47′, W. 9° 01′*	29.92	759.9	60.8	16		ene.			2		8 n					1	w.	foggy.
ANCHOR LINE.																		
S. S. Bolivia, New York, N. Y.*†	29.87	758.7	76	24.4		sw.			1					4 h'r	4 h'r			raining.
S. S. Dorian, New York, N. Y.*	29.68	753.9																
ATLAS LINE.																		
S. S. Ailsa, N. 23° 47′, W. 74° 20′ †	30.12	765.0	82	27.8	91	ene.			4		2		ene.	4 h'r	4 h'r	mod.	ene.	fair.
S. S. Alene, Savanilla, U. S. C. †	29.90	759.4																
S. S. Alpin, Cayes, Hayti, W. I.	29.99	761.7				nw.			1		1		ene.	0	0		se.	
S. S. Antillas, Jeremie, Hayti, W. I. †	29.75	755.6	90	32.2		nw.			2		5		nw.	sq 'lls	sq 'lls			squally.
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 43° 09′ E. 67° 31′	29.81	757.2	50	10.0	93	nnw.			4		7							misty.
S. Baroda, N. 10° 29′, W. 25° 06′	30.06	763.5	78.5	25.8	86	w.			2		4							d. clouds.
S. S. Cipero, N. 30° 40′, W. 43° 57′	30.29	769.4	83.2	28.4	61	ne.			2		2							blue sky.
Bk. Commewyne, N. 51° 37′, W. 12° 35′	29.78	756.4	59.5	15.3	88	w.			4		10							overcast.
S. S. City of Agra, S. 38° 59′, E. 36° 00′	30.07	763.8	47	8.3	77	wsw.			5		7							d. clouds.
S. S. Gordon Castle, N. 45° 48′, W. 39° 12′	30.15	765.8	69	20.6	60	ne.			1-2		3							d. clouds.
S. S. Humboldt, S. 34° 37′, W. 58° 04′	29.91	759.7			100	ne.			4		10					r'gh		raining.
May Hulse, N. 44° 55′, W. 29° 25′	30.09	764.3				n.			2		10							overcast.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH METEOROLOGICAL OFFICE.—Continued.																		
S. S. Minho, Rio de Janeiro Brazil	30.27	768.8	70	21.1	41	calm			0		10							misty.
S. S. Oamaru, N. 18° 34′, W. 27° 52′	30.11	764.8	76.3	24.6	81	ne.			3									overcast.
S. S. Rosetta, N. 5° 54′, E. 80° 31′	29.83	757.7	76.5	24.7	91	w.			3		8							d. clouds.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, La Paz, Lower Cal*†	29.89	759.2	83	28.3	87	ssw.			2		5		w.			sm'h		fair.
CUNARD LINE.																		
S. S. Rothnia, N. 50° 59′, W. 17° 57′	29.94	760.5	69	20.6	84	w.			3		5?		nnw.	0	0		w.	clear?
S. S. Marathon, N. 31° 52′ E. 26° 57′	29.81	757.2	82	27.8		nnw.			3		0			0	0	mod.	nnw.	clear.
S. S. Scythia, Liverpool, Eng	29.74	755.4	65	18.3	90	wnw.			1		10			0	0			overcast.
DONALDSON LINE.																		
S. S. Colina, N. 56° 15′, W. 5° 45′†	29.90	759.4				se.			4		2		s.			sm'h		clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Cimbria, N. 41° 10′ W. 62° 45′	29.98	761.5	79	26.1		sw.			6		8		sw.	8 h'r	8 h'r	r'gh	sw.	fair.
S. S. Gellert, N. 46° 08′, W. 38° 10′	30.12	765.0	65	18.3		n.			4		2		nw.	0	0	mod.	nw.	fair.
S. S. Herder, New York, N. Y*.	29.58	751.3	79	26.1		wnw.			2		4		nw.	0	0			fair.
S. S. Silesia, N. 57° 19′, E. 22° 43′			60.2	15.7		sw.			6		5?		s.	0	0	5	wsw.	cloudy.?
S. S. Vandalia, N. 43° 10′. W. 48° 00′*	30.18	766.6	62.6	17.0		nnw.			3		10		nw.	0	0	mod.	nw.	cloudy.
S. S. Westphalia, N. 50° 49′, W. 27° 19′	29.86	758.4	66	18.9	94	wsw.			5		8		wnw.	6 h'r	6 h'r	r'gh	nw.	fair.
INMAN LINE.																		
S. S. City of Berlin, N. 44° —′, W. 56° —′	30.13	765.3				s.			3		10		sw.	6 h'r	6 h'r	sm'h		
LAMPERT AND HOLT'S LINE.																		
S. S. Archimedes, N. 47° 54′, W. 22° 58′†	30.01	762.2				wnw.			4		1		nw.	5 h'r	5 h'r	mod.	wnw.	clear.
S. S. Hevelius, S. 24° 00′ W. 43° 30′*†	30.44	773.2	68	20.0		e.			5		10?		n.	0	0	long	s.	clear?
MALLORY LINE.																		
S. S. City of San Antonio, N. 24° 15′, W. 80° 37′*†	30.26	768.6				e.			2		2		e.	0	0			fair.
S. S. Colorado, New York, N. Y†	29.82	757.4	75	23.9		calm			0		5?		sw.	6 h'r	6 h'r			cloudy.?
S. S. San Marcos, N. 26° 10′ W 80° 05′	30.14	765.5				sse.												fine.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Marseilles, France*†	29.96	761.0	72	22.2	80	ssw.			3		2		sw.	0	0			clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 46° 44′, W. 51° 35′†	30.16	766.1	62	16.7	100	ssw.			4–5					0	0	sm'h		hazy.
S. S. Hermod, N. 41° 12′, W. 48° 28′†	30.30	769.6	82.4	28		sw.			1		2		w.	0	0	mod.	s.	fair.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, S. 3° 30′ W. 37° —′†	29.97	761.2				se.			4		6		ese.	0	0	hv'y	ese.	hazy.
MORGAN LINE.																		
S. S. Chalmette, N. 25° 48′. W 83° 50′†	30.14	765.5	84	28.9		se.			3		5		se.	½ h'r	½ h'r	sm'h		fair.
NATIONAL LINE.																		
S. S. Canada, N 44° 00′ W. 42° 07′ †	30.15	765.8				var.			1		8		var.	shr's	shr's	sm'h	wsw.	
S. S. Denmark, London, England	29.85	758.2	65	18.3		nw.			4		10		wnw.	2 h'r	2 h'r			dull.
S. S. England, N. 40° 46′, W. 51° 50′	30.19	766.8				sw.			4		2		sw.	0	0	slight	sw.	clear.
S. S. Erin, N. 51° 32′, W. 8° 34′	29.73	755.1	67	19.4	38	s.			4		10			0	0	sm'h	wnw.	foggy.
S. S. Helvetia, N. 42° 26′, W. 45° 51′	30.17	766.3	75	23.9		wnw.			2		2		nnw.	0	0	slight	wnw	dull.
S. S. The Queen, N. 47° 06′ W 27° 12′	30.08	764.0	62	16.7		n.			5		5?		nw.	3 h'r	3 h'r	mod.	nw.	clear?
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 34° 14′, W. 74° 00′†	30.12	765.0	87	30.6		sw.			5		10		ssw.	3 h'r	3 h'r	h'vy	ssw.	overcast.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, New York N. Y†	29.88	758.9	75	23.9	90	sse.			3									fair.
S. S. City of Puebla, Havana, Cuba, W. I †	30.03	762.7	78	25.6		ne.			1		2		ne.					fair.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 49° 40′ W. 22° 05′*	30.03	762.7	66	18.9		wnw.			3								w.	fair.
S. S. Lone Star, N. 29° 55′ W. 86° 18′	30.18	766.6	80	26.7		ssw.			1							sm'h		clear.
NORTH GERMAN LLOYD.																		
S. S. America, N. 53° 48′, E. 6° 41′*	29.85	758.2	67.0	19.4	74	nw.			1		1		nw.	0	0	sm'h	nw.	clear.
S. S. Elbe, N. 40° 36′, W. 66° 21′	29.89	759.1	70.7	21.5	87	sw.			4		2		sw.	0	0	long	s.	clear.
S. S. Gen. Werder, N. 50° 08′, W. 12° 32′	29.90	759.4				w.			4		10			4 h'r	4 h'r	r'gh	w.	covered.
S. S. Graf Bismark, N. 2° 14′, W. 28° 20′	30.11	764.8	77.0	25.0		ese.			4		3		se.	10 h'r	10 h'r	mod.	se.	clear.
S. S. Habsburg, N. 51° 52′, E. 2° 24′	29.84	757.9	62.6	17.0		calm			0		0			0	0	sm'h		fair.
S. S. Hohenslaufen, N. 47° 51′, W. 29° 21′	30.05	763.3	62.6	17.0		n.			4		9		n.	3 h'r	3 h'r	4	w'n.	covered.
S. S. Koln, N. 36° 58′, W. 76° 00′*	29.95	760.7	79.0	26.1	82	sw.			6		10			0	0	long	sw.	cloudy.
S. S. Leipzig, N. 43° 37′, W. 42° 18′	30.13	765.3	72.0	22.2	90	sw.			5		8		w.			sm'h		light rain.
S. S. Main, N. 46° 56′, W. 51° 11′	29.92	760.0				var.			0–2		5		sw.	0	0	sm'h	nw.	fair.
S. S. Neckar, off Texel, Netherlands	29.84	757.9	64.5	18.1	89	ene.			1		5?		e.	0	0	sm'h	e.	clear?
S. S. Ohio, Baltimore, Md	29.89	759.2				w.			2		5		w.	1 h'r	1 h'r			fair.
S. S. Saher, N. 45° 25′, W. 44° 45′	30.20	767.1	58.1	14.5		e.			3		10		se.; ne.	0	0	sm'h	sw.	cloudy.
S. S. Strassburg, N. 52° 15′, E. 3° 04′	29.79	756.7	69.5	20.8	82	calm			0		0			1 h'r	1 h'r	sm'h		clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 45° 48′, W. 145° 16′†	30.41	772.4	60	15.6	100	wnw.			5		5		w.	0	0	sm'h		fine.
S. S. Belgic, N. 26° 32′, E. 122° 20′ †	29.86	758.4	82	27.8	75	sse.			3		10		se.	10 h'r	10 h'r	mod.	sw.	cloudy.
S. S. Coptic, N. 46° 06′, E. 172° 19′	29.97	761.2	50.0	10.0	?	var.			1		10		n.	0	0	1	n.	overcast.
S. S. Gaelic, Hong Kong, China†	29.79	756.7	81	27.2	100	ssw.			5		0							clear.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.14	765.5				sw.			1		3		sw.	0	0			clear.
S. S. Seminole, Boston, Mass†	29.77	756.1	80	26.7	82	sw.			4		hz.		sw.	10 h'r	10 h'r			hazy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, Columbia river, Oregon†	30.17	766.3	55	12.8	80	wnw.			4		0							clear.
S. S. Oregon, N. 44° 52′, W. 124° 21′†	30.18	766.6	59	15.0	76	n.			2		0					light	nw.	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 33° 49′, W. 118° 40′			66	18.9	89	ese.			3		5		e.			sm'h		fair.
S. S. City of Chester, San Francisco, Cal†			53	11.7	86	calm			0		5?							clear.
S. S. Idaho, San Francisco, Cal †	30.02	762.5	54	12.2	87	se.			1		0			0	0	sm'h		clear.
S. S. State of California, San Francisco, Cal †	30.03	762.7	50	10.0	93	calm			0		0							clear.
S. S. Victoria, Portland, Oregon †	30.14	765.5	55	12.8	87	calm			0		2			0	0	sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 27° 14′, E. 177° 21′	30.18	766.6	62	16.7	88	sw.			5		1		sw.	0	0	long	sw.	clear.
S. S. City of New York, Sydney, N. S. W†	29.97	761.2	62	16.7	77	sw.			2		5		sw.	1 h'r	1 h'r			fair.
S. S. City of Pekin, N. 39° 21′ E. 148° 10′†	29.95	760.7	72	22.2	80	nw.			5		5		nw.	0	0	small	nw.	fair.
S. S. City of Rio de Janeiro, N. 36° 27′, W. 122° 03′*†	30.20	767.1	55	12.8	87	nw.			4		5		nw.	0	0	mod.	nw.	hazy.
S. S. City of Tokio, N. 33° 40′ E. 130° 39′ †	30.01	762.2	81	27.2	100	nw			2		0			½ h'r	½ h'r	small	sw.	fine.
S. S. Colima, La Libertad, San Salvador†	29.95	760.7	77	25.0	82	ne.			2		7		ene.	0.12	3.0	small	sse.	cloudy.
S. S. Colon, Aspinwall, Panama†	29.97	761.2	78	25.6		sse.			1		10		se.	3 h'r	3 h'r	mod.	ne.	overcast.
S. S. Costa Rica, N. 21° 30′, W. 105° 20′ *	29.93	760.2	81	27.2	83	ne.			5		10		ne.	½ h'r	½ h'r	sm'h		raining.
S. S. Granada, N. 15° 50′, W. 97° 22′†	29.97	761.2	81	27.2	78	wnw.			1		10		wnw.	2 h'r	2 h'r	sm'h	wsw.	cloudy.
S. S. Zealandia, S. 26° 47′, W. 176° 37′	30.10	764.5	66	18.9	89	wsw.			5		5		sw.			r'gh	sw.	squally.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Muriel, Barbadoes, W. I	30.09	764.3	82	27.8		ene.			2		10			0	0	sm'h		overcast.
RED D LINE.																		
S. S. Caracas, N. 37° 55′, W. 72° 21′*†	30.02	762.5				sw.			6		2		sw.	0	0	r'gh	sw.	hazy.
S. S. Valencia, Puerto Cabello, Venezuela*†	30.15	765.8	81	27.2	83	e.			1		2		e.	0	0	sm. h	ne.	fine.
RED STAR LINE.																		
S. S. Belgenland, Philadelphia, Penn †	30.01	762.2	75	23.6	77	calm			0		3?							overcast?
S. S. Pennland, N. 40° 32′ W. 71° 38′	29.91	759.7				s.			6		10		se.	3¾ h'r	3¾ h'r	mod.	ssw.	squally.
S. S. Rhynland, N. 48° 10′, W. 27° 20′	30.22	767.6	64	17.8	89	nw.			4		7		nw.	2 h'r	2 h'r	long	nw.	cloudy.
S. S. Switzerland, N. 44° 15′. W. 38° 49′†	30.23	767.8				sse.			1		10		ne.	0	0	long	nw.	cloudy.
S. S. Vaderland, N. 49° 50′, W. 5° 09′	29.75	755.6	60	15.6	91	ssw.			4		10			2 h'r	2 h'r	sm'h		foggy.
S. S. Waesland, N. 42° 55′, W. 47° 30′	30.17	766.3	70	21.1	85	nw.			4		10		n.	0	0	sm'h	nw.	cloudy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. Edam Amsterdam, Holland	29.73	755.1	68.6	20.3	87	sw.			6		8		sw.					cloudy.
S. S. Schiedam, N. 40° 28′ W. 70° 40′	29.83	757.7	76.9	24.9	87	s.			5		5?		sw.	0	0	long	sw.	cloudy.?
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, Kingston, Jamaica, W. I.	30.08	764.0	81	27.2		n.			1		10		nne.	0	0			fine.
STATE LINE.																		
S. S. State of Florida, N. 47° 14′, W. 35° 07′	30.05	763.3	62	16.7		nne.			3		7		n.	0	0	sli't	ne.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N.Y.†	30.08	764.0	79.7	26.5		ssw.			2		2		ssw.	0	0			clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 41° 39′ W. 46° 16′	30.22	767.6	80	26.7					2		3			0	0			fine.
WHITE STAR LINE.																		
S. S. Adriatic, N. 41° 05′, W. 67° 28′*†	29.99	761.7	66.5	19.2	97	ssw.			3		5		ssw.	3 h'r	3 h'r	h'vy	ssw.	foggy.
S. S. Baltic, N. 48° 37′ W. 39° 29′	30.08	764.0	56	13.3	87	wnw.			4		8		wnw.	1 h'r	1 h'r	2	w.	d. clouds.
S. S. Celtic, N. 44° 30′, W. 43° 45′†	30.17	766.3	69	20.6	90	ese.			3		8		se.	15 h'r	15 h'r	sm'h		fair.
S. S. Republic, Liverpool, Eng†	29.98	761.5	63	17.2	89	nw.			3		9		w.	0	0			d. clouds.
WILSON LINE.																		
S. S. Otranto, N. 50° 18′, W. 16° 12′†	30.07	763.8	59	15.0		w.			5		5?		w.			long	w.	clear.?
WINSOR LINE.																		
S. S. Aries, N. 40° 56′, W. 69° 40′*†	29.80	756 9				ssw.			7		8		s.	1 h'r	1 h'r	hv'y	ssw.	foggy.
S. S. Catherine Whiting, Barnegat, N. J†	29.94	760.5	76	24.4		wsw.			1		8		w.	light	light	long	s.	light rain.
MISCELLANEOUS.																		
Bk. Adelaide, N. 29° 40′, W. 53° 23′*†	30.38	771.6	84	28.9		e.			2		1		e.	0	0	sm'h	ese.	hazy.
Sch. Anna A. Holton, N. 35° 00′ W. 71° 45′†	30.09	764.3	84	28.9		sw.			6		8		sw.	½ h'r	½ h r	r'gh	s.	raining.
Bk. Anna Thorman, S. 24° 50′, E. 107° 17′	30.11	764.9	64.6	18.1	73	s.			2		9 k		sw.	0	0	mod.	sw.	fair.
S. S. Antonio Lopez, N. 38° 26′, W. 31° 35′*	30.28	769.1	76.5	24.7	78	sw.			3		3			0	0	mod		clear.
Bk. Argonaut, N. 40° 22′, W. 72° 40′*†	29.84	757.9	67.1	19.5		sw.			3		7		wnw.	1 h'r	1 h'r	mod.	sse.	hazy.
Bk. Aureola, N. 12° 42′, W. 45° 04′*†	30.10	764.5	79	26.1		n.			1		0			0	0	mod.	sw.	clear.
Bk. B. F. Watson, N. 15° 33′, W. 35° 43′†	30.02	762.5	82	27.8		e.			3		2		e.	0	0	sm'h	e.	fine.
Bk. Bergenseren. N. 42° 10′, W. 28° 20′†	30.08	764.0				ssw.			5		hz.			0	0	4	sw.	hazy.
Bk. Bremen, N. 49° 09′. W. 31° 35*†	30.17	766.3				wnw.			6		5		wnw.	light	light	cross		fair.
Bk. Cato, Malmö, Sweden*†	30.29	769.4				ene.			5?									cloudy.?
Bk. Celestina, N. 17° 01′ W. 27° 01′*†	30.04	763.0				ne.			2					0	0	long	n.	hazy
S. Dora, S. 16° 00′ W. 30° 55′†	30.24	768.1	79.7	26.5		s.			2		5 k		sse.	0	0	sm'h	se.	fair.
Schr. Edith R. Seward, N. 38° 26′, W. 76° 18′*†	29.91	759.7	79	26.1		w.			1		8		w.	1 h'r	1 h'r			cloudy.
S. E. J. Spicer, N. 41° 36′, W. 52° 47′*	30.17	766.3	78	25.6		ssw.			5		5		s.	0	0			fair.
S. Enoch Train, English Channel†	30.10	764.5				wnw.			1		10		wnw.	sh'rs	shr's	sm'h		overcast.
Bk. Essex, N. 11° 53′, E. 48° 29′*†	29.65	753.1	90	32.2		ne.			2		0			0	0	light	w.	clear.
Bk. Franklin, N. 57° 45′, E. 8° 30′*†	30.12	765.0				var.			2		5			0	0	sm'h	s.	fair.
Bk. Freya, N. 39° 30′, W. 59° 17′			83	28.3		sse.			5		1		ssw.	2 h'r	2 h'r	mod.	ssw.	clear.
S. Glendon, N 34° 45′, W. 47° 30′†	30.27	768.8	84	28.9		calm			0		10		s.	0	0	sm'h		fair.
Bk. Godfrey, N. 26° 32′, W. 21° 43′	30.11	764.8	73.6	23.1	68	nne.			4–5		7		ne.	sh'rs	sh'rs	mod.	ne.	cloudy.
S. Grecian, N. 10° 20′, E. 112° 20′*†	29.85	758.2	85	29.4		sw.			6		2		sw.	0	0	mod	w.	clear.
Bk. Gronsvaer, N. 17° 00′, W. 34° 00′†	30.06	763.5				e.			4		4		e.	2 h'r	2 h'r	mod.	ese.	fair.
Bk Hattie G. McFarland, Bath, Maine*†	29.74	755.4	71	21.7		s.			3		10		s.	7 h'r	7 h'r			
Schr. Hattie Weston, N. 29° 26′, W. 71° 53′*†	30.33	770.4	84	28.9		e.			1		1		e.	0	0	mod.	wsw.	clear.
Bk. Heinrich & Tonio, N. 49° 01′, W. 8° 35′*†	30.15	765.8	64	17.8		w.			4		6		w.	10 h'r	10 h'r	mod.	w.	clearing.
Schr. Henry Denison, N. 31° 46′ W. 71° 41†	30.08	764.0				ssw.			6		3		sw.			high	sw.	fair.
S. Ivy, S. 50° 42′ W. 88° 10′†	29.41	747.0	38	3.3		wsw.			8		9		wsw.	rain	rain	hv'y	nw.	hailing.
S. Ismir, N. 4° 39′ E. 107° 06′†	29.92	760.0				wnw.			2		8			4 h'r	4 h'r		sm'h	fine.
Schr. Jennie N. Huddell, Vineyard Sound, Mass†	29.82	757.4	75	23.9	95	sw.			3		8		sw.	0	0			threatening.
Bk. Johanne, N. 40° 26′, W. 72° 46′*†.	29.85	758.2	78	25.6		wsw.			2		8		w.	0	0	sm'h		hazy.
Bg. John Wesley, Guanatamo, Cuba, W. I†	29.87	758.7				n.			1		0			0	0			clear.
Bk. Joseph A. Ropes, S. 36° 37′, E. 31° 45′*†	30.32	770.1	53	11.7	79	sw.			6		7		sw.	3 h'r	3 h'r	r'gh	sw.	cloudy.
Bkt. Josephine, Havana, Cuba, W. I.†	30.08	764.0	83	28.3	79	e.			3		0			0	0			clear.
S. S. Lamperts, N. 37° 09′, E. 10° 47′*	30.00	762.0	77.5	25.3	72	nw.			4		0							blue sky.
Light House Tender, Laurel, Key West, Florida†	30.14	765.5	85	29.4		e.			2		4		ese.	0	0			fair.
S. S. Madrid, N. 58° 20′, W. 7° 44*†	29.85	758.2	56	13.3		sse.			1–4		6		sw.	0	0	long	nnw.	cloudy.
Schr. Maggie Abbott, Port au Prince Hayti†	30.02	762.5									4		e.	4 h'r	4 h'r			
S. S. Malabar, N. 38° 04′, W. 130° 49′†	30.32	770.1				n.			2		0			0	0	mod.	w.	clear.
S. Minnie N. Gerow, N. 36° 00′, W. 5° 55′.†*	29.92	760.0				ene.			6		0					r'gh	e.	fine.
S. M. P. Grace, S. 22° 07′, W. 101° 08′*	30.33	770.4	67	19.4		ne.			2				ne.	0	0	sm'h	ese.	squally.
Bk. National Eagle, N. 43° 43′, W 18° 33′†	30.16	766.1				sw.			2		1		w.	0	0	sm'h		fair.
S. S. Nebo, N. 36° 27′, W. 16° 58′*†	30.10	764 5				nw.			6		8		nw.	0	0	cross	nw.	cloudy.
S. Oracle, N. 36° 41′, W. 53° 32′*	30.21	767.3	80	26.7	91	ssw.					3 k		sw.			mod.	nw.	clear.
S. Orealla, N. 12° 21′, W. 33° 21′*	29.96	761.0				e.			2		2		e.	0	0	mod.	s.	clear.
Bk. Rosebud, S. 29° 27′, E. 58° 54*†.	30.30	769.6	65	18.3	83	calm			0		5		calm	0	0			fine.
S. St. Francis, N. 35° 32′, W. 40° 22′†	30.33	770.4	78	25.6		ssw.			1		2			0	0	long	se.	fine.
Schr. S. B. Hubbard, Gardiner, Me†	29.71	754.6	70	21.1		w.			2		10			2 h'r	2 h'r			threatening.
Bk. Sunbeam, N. 40° 03′, W. 28° 18′†.	30.30	769.6	76	24.4	85	wsw.			5		5		wsw.	0	0	sm'h		fair.
S. S. Sunbeam, Off Goeree, Holland	29.83	757.7	64	17.8	61	nnw.			2		1		nw.					d clouds.
S. Sovereign of the Sea, S. 52° 27′, W. 64° 54′*†.	29.06	738.1	45	7.2	92	nnw.			3		5		nnw.	0	0	sm'h	nnw.	hazy.
Bg. Teneriffe, N. 38° 02′, W. 73° 55′	29.86	758.4				sw.			5							sm'h		
U. S. F. C. S. S. FishHawk, Wood's Hole, Mass†	30.02	762.5	73	22.8	90	sw.			4		10		sw.	0.47	11.9			cloudy.
Schr. Victor Ping, N. 20° 30′, W. 66° 30′*†	30.10	764.5				ene.			6		8		e.			mod.	ese.	cloudy.
Bk. Vincenzo Accame, N. 38° 40′, W. 59° 35′†.	30.39	772.0	82.4	28.		wsw.			7									
Schr. Viola Reppard, Savannah, Ga†	30.06	763.5	84	28.9		sw.			2		2		sw.	0	0			
Bkt. Wandering Jew, Delaware Bay†	29.87	758.7	81	27.2		wsw.			4		10		sw.	rain	rain			squally.
Bg. Wauburn, N. 20° 13′, W. 74° 10′*†	30.10	764.5				e.			5		3		e.			cross	e.	¼ covered.
Bk. Warden Law N. 56° 03′, W. 12° 15′						sw.			3		4		w.	8 h'r	8 h'r	mod.	v	fair.
S. Wm. Woodbury, N. 55° 24′ E. 5° 35′*	29.81	757.2	66	18.9	78	ne.			4		6		e.			sm'h	ne.	clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 18, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.03	762.7	82.0	27.8	71	s			1		3			0	0	pretty fair	Bouvier.
Algiers			30.04	762.9	80.2	26.8	80	ne.			1		0			0	0	clear	Thève.
La Galle			30.04	763.0	87.4	30.8	83	n.			1		0			0	0	clear	Fonfrède.
Tunis			30.03	762.8															Jacques.
Saida			30.08	764.0															Perès.
Tebessa			30.07	763.7	84.2	29.0	40	w.			1		0			0	0	clear	Rigaud.
Geriville					95.0	35.0	9	nw.			3		3			0	0	pretty fair	Lonchamp.
Laghouat			30.09	764.2	103.3	39.6	38	se.			2		1			0	0	very fair	Abraham.
Biskra			30.07	763.8	97.9	36.6	29	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.15	765.8	30.24	768.1	48.0	8.9	92	calm	0	0			2			0.04	1.0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.45	748.0	29.99	761.8	60.8	16.0	84	nw.			1		10			0.107	5.0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.12	739.7	29.87	758.7	63.7	17.6	67	w.	6.3	2.8			10			0.287	7.3		Dr. Wierzbiski.
Eperies	29.02	737.1	29.88	759.0	60.8	16.0	84	calm			0		10kn		s.	0.224	5.7		Julius Mikolik.
Gratz	28.69	728.8	29.92	759.9	64.9	18.3	61	nw.			4		6			0.083	2.1		Andreas Rospini.
Hermannstadt	28.40	721.3	29.77	756.2	69.8	21.0	72	w.			1		10			0.827	21.0	raining.	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.71	729.3	30.03	762 7	54.0	12.2	88	sw.			2		10			0.083	2.1	raining	The Staff.
Lemberg	28.87	733.4	29.83	757.6	68.0	20.0	67	nw.			4		6			0.016	0.4		Dr. T. Stanecki.
Pola	29.84	757.9	29.91	759.7	73.4	23.0	59	wnw.			2		5			0	0		I. R. Hydrographic Office.
Szathmar	29.38	746.3	29.83	757.7	68.7	20.4	62	w.			3		5			0.339	8.6	light rain	Joseph Midlinszay, S. J.
Szegedin	29.62	752.3	29.89	759.3	59.0	15.0	91	w.			1		3			0.197	5.0	thunder	Karl Stancel.
Trieste	29.89	759.1	29.99	761.7	73.0	22.8	43	se.			1		2			0.638	16.2		Royal Academy.
Vienna	29.31	744.5	30.02	762.0	57.2	14.0	80	w.			2		9			0.031	0.8	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.79	756.7	29.89	759.2	63.2	17.2	67	se.	8	3.6			3			0	0	blue sky	W. Boswell
Armagh, Observatory	29.73	755.1	29.96	761.0	62.1	16.7	77	s.	8	3.6			9					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.96	761.0	63.5	17.5	69	wnw.	10	4.5			6					d. clouds	John Hartnup.
Bolton, Sharples	29.42	747.3	29.95	760.7	63.4	17.4	78	wnw.	3	1.3			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.52	749.8	29.92	760.0	63.4	17.4	70	w.			1		10			0.30	7.6	overcast	McLandsborough & Preston
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	84.0	28.9	73	se.			2		3					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			29.95	760.7	69.0	20.6	84	s.			0.2		10					overcast	John McLaren.
Chatham, School M. E.	29.86	758.4	29.99	761.7	65.6	18.7	81	sw.			1		10					gloomy	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.78	756.4	30.00	762.0	64.3	17.9	76	sse.			2		8					d clouds	The Staff.
Fort Napier, Natal	28.05	712.5	30.27	768.8	61.2	16.2	30	se.			1		2					blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.05	753.1	29.87	758.7	78.0	25.6	90	w.			1		7						Sergt. John Robinson.
Gibraltar, Mediterranean	30.01	762.2	30.06	763.5	78.5	25.8	88	e.			1		4					blue sky	Corpl. F. Norris, A. H.C
Glasgow, Observatory	29.73	755.1	29.93	760.2	62.6	17.0	66	wsw.			5		10					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.81	757.2	29.98	761.5	65.5	18.6	83	sw.			1		10					overcast	The Staff.
Guernsey	29.74	755.4	30.03	762.7	66	18.9	78	w.			1		3			blank	blank	d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.95	760.7	29.99	761.7	67.4	19.7	78	ne.	5	2.2			10					threatening	The Staff.
Leicester, Museum	29.70	754.4	29.95	760.7	67.0	19.4	78	sw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.89	759.2	29.96	761.0	83.4	28.6	69	nw.			2		0					blue sky	W. D. Ballau.
Nassau, Bahamas	30.08	764.0	30.12	765.0	84.0	28.9	73	se.			1	5 c	0					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College																			Warren Middleton.
Oxford, Radcliffe Obs'y	29.74	755.4	29.97	761.2	65.1	18.4	80	wsw.			1		10					overcast	The Staff.
Plymouth	29.92	760.0	29.99	761.7	67.2	19.6	77	s.			1		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.85	758.2	62.1	16.7	97						1					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.68	753.9	29 74	755.4	95.2	35.1	26	ne.			2		0					blue sky	W. H. Lyne.
Sheffield	29.68	753.9	29.95	760 7	67.1	19.5	81	nw.			1		10			0.15	3.8	overcast	W. F. Cooper.
Silloth Rectory	29.91	759 7	29.94	760.5	60.3	19.1	67	w.			2		2			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.97	761.2	65.2	18.4	61	w.	7	3.1			7					d. clouds	I. New.
Stratfield Turgiss					67.4	19.7	81	sw.			1		9					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.98	761.5	29.99	761.7	72	22.2	75	sw.			4		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.94	760.5	29.96	761.0	63.1	17.3	78	ssw.	16	7.2			10					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.60	751.8	29.64	752.8	64	17.8	79	w.	8	3.6		0	0			0.020	0.5	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.62	752.3	29.68	753.9	60	15.6	81	w.	8	3.6		5 c	0	w.		0.60	15.2	fair	G. A. Blair.
Father Point, Quebec*	29.72	754.9	29.74	755.4	50	10.0	80	w.	23	10.3		0	2 s		calm	0.41	10.4	clear	J. McWilliams.
Fort Garry, Manitoba*	29.06	738.1	29.84	757.9	64	17.8	90	se.	17	7.6			10 s		s.	0	0	cloudy	James Stewart.
Halifax, N. S*	29.56	750 8	29.69	754.1	68	20.0	87	nw.	8	3.6		10k; ck	0	nw.		0	0	cloudy	A. Allison.
Kingston, Ontario*	29.71	754.6	30.04	763.0	53	11.7	72	n.	9	4.0		2 ck	5 k	n.	n.	0.42	10.7	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.76	755.9	29.96	761.0	53	11.7	74	nw.	12	5.4		0	0			0.03	0.8	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.44	747.8	30.13	765.3	51	10.6	86	n.	7	3.1		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.40	746.7	30.09	764.3	52	11.1	93	n.	10	4.5		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.46	748.3	30.11	764.8	49	9.4	93	calm	0	0		0	0			inap.	inap.	clear	M. Payne.
Quebec, Quebec*	29.55	750.0	29.87	758.7	53	11.7	80	nw.			5	0	2 s		n.	0.31	7.9	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.62	752.3	30.08	764.0	51	10.6	77	n.	5	2.2			10 ks		n.	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.41	747.0	30.12	765.0	56	13.3	86	ne.	1	0.4		0	0			0	0	clear	
St. Andrews, N. B	29.69	754.1	29.74	755.4	59	15.0	85	nw.	5	2.2		0	0			0	0	clear	
Sydney, C. B*	29.56	750.8	29.61	752.1	58	14.4	90	sw.	15	6.7		3 c	4 ks	sw.	w.	0.05	1.3	fair	T. C. Hill, C. E
Toronto, Ontario*	29.74	755.4	30.12	765.0	52	11.1	77	n.	8	3.6		2 cs	0	w.		0	0	fair	Magnetic Observatory.
Yarmouth, N. S*	29.69	754.1	29.75	755.6	58	14.4	93	nw.	6	2.7		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
Sub-series.																			
Mount Forest	28.72	729.5	30.13	765.3	46.0	7.8	92	nw.			1	5 k	0	nw.		0	0		Wm. Wylie.
St. Johns, Newfoundland	29.90?	759.4?	30.14?	765.5?	68?	20.0?	100	sw.				5 k	5 s			0.13	3.3	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.45	773.4	30.47	773.9	61	16.1	82	e.	15.2	6.8		0	0			0.020	0.5	clear	C. Hansen.
Cape Town, C. G. H. Obs'y	30.20	767.1	30.23	767.8	73.0	22.8	54	sse.	9	4.0		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.83	757.6	29.85	758.2	76.3	24.6	94	se.	6.7	3.0			0			0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.84	758.0	29.89	759.2	68.0	20.0	75	nne.	13	6			9						Oversergent Fischer.
Fanöe	29.97	761.2	29.99	761.7	65.1	18.4	77	w			4		1						Overloerer Lauridsen
Godthaab, Greenland	29.79	756.6	29.83	757.7	41.2	5.1	85	nne.			2		1			0	0		S. Kleinschmidt.
Ivigtut	29.78	756.3	29.80	756.8	39.0	3.9		nw.			2		2						
Stykkisholm, Iceland	29.70	754.3	29.74	755.4	41.0	5.0	83	e.			4		8						A. O. Thorlacius.
Thorshavn	29.59	751.6	29.63	752.5	57.6	14.2	80	ssw.	18	8			3						Overloerer Bergh.
Vestervig	29.90	759.4	29.99	761.7	63.5	17.5	73	nw.			2		1						Loearer Oesterbol.
French.																			
Agen, Normal School	29.52	749.8	30.15	765.7	75.6	24.2	67	wnw.			1		kn		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.58	751.4	30.13	765.4	72.0	22.2	86	sw.			1		k	w.	s.	0	0		M. Nicot, Director.
Arras, Engineer School	29.78	756.3	30.03	762.7	66.9	19.4	83	ssw.			3		kn			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.97	761.3	30.05	763.3	79.5	20.4	53	n.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.54	750.4	30.08	764.1	68.9	20.5	64	ssw.			1		10		w.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.78	756.3	30.04	762.9	69.8	21.0	76	e.			1		10		ese.	0	0	covered	M. Frère Eugène Maris.
Besançon, Normal School	29.15	740.3	30.02	762.4	70.5	21.4	84	sw.			1		2		n.	0	0	slightly cld'y	M. Gobin, Director.
Bordeaux, Observatory	29.86	758.5	30.11	764.9	74.7	23.7	56	wsw.			1		8			0.043	1.1	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.50	749.2	30.04	763.0	68.0	20	91	se.							se.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.82	757.4	30.06	763.6	64.4	18.0	90	ssw.			2		10		sw.	0.059	1.5	rain & fog	M. de Kermaree, Dir.
Caen, Normal School	29.91	759.7	29.98	761.6	61.9	16.0	86	w.			1		8		w.	0	0	very cloudy.	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.72	754.9	30.03	762.8	70.9	21.6	83	calm			0		2			0	0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.54	750.3	30.04	762.9	73.4	23	63	nnw.			2		5			0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.75	730.2	30.06	763.5	71.6	22.0	67	e.			1		8			0.130	3.3	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.27	743.5	30.10	764.6	69.3	20.7	59	sw.					9		s.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.21	716.5	30.07	763.8	69.1	20.6	74	w.			1		kn	w.	w.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.44	696.9	29.88	758.9	72.3	22.4	41	n.			1		1		n.	0	0		M. Jeanglrard, Director.
Gréasque, du Rhone	28.91	734.2	29.98	761.5	79.5	20.4	54	nw.			4		0			0	0		M. Kina, Director.
Grenoble, Normal School	29.20	741.7	29.94	760.4	72.7	22.6	54	e.			2		ck	0	nnw.	0.063	1.6		M. Ablard, Director.
Lamballe, Normal School					67.3	19.6	83	sw.			1		10		sw.	0.04	1.	covered	M. Ollitrault, Director.
Lescar, Normal School	29.54	750.3	30.08	764.1	77.9	25.5	59	w.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.99	761.7	30.09	764.3	66.0	19.2	89	sw.			1		10			0.059	1.5	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.06	738.2	30.10	764.4	71.4	21.9	53	nw.			1		1			0	0	clear	M. André, Director.
Mans, Normal School	29.69	754.1	29.99	761.7	70.9	21.6	55	w.			3		5		w.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.73	755.1	29.99	761.7	79.7	26.5	35	nw.			3.4		0			0	0		M. Stephan, Director.
Montlouis	25.03	635.8	29.87	758.8	68.5	20.3	57	se.	9.4	4.2						0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.91	759.8	30.04	763.0	84.0	28.9	55	n.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.18	741.2	29.94	760.5	73.8	23.2	58	nw.			1		10 k			0	0	covered	M. Hasse, Director
Nantes, Observatory	29.96	761.0	30.12	765.1	67.5	19.7	77	nw.			0–2		10 n		wnw.	0.04	1.		M. Larocque, Director.
Perpignan, Observatory	29.98	761.4	30.08	764.0	82.4	28.0	41	n.	13.0	5.8			1		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.48	545.6			51.8	11.0		n.			1		0			0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.05	737.9	30.10	764.4	68.0	20	64	n.			1		10			0	0	covered	M. Taillen.
Puy de Dôme Obs'y, Summit	25.31	642.9			52.2	11.2	99	w.			3		10			0.437	11.1	covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.08	764.1	30.11	764.9	73.4	23.0	75	sw.			1		5		e.	0	0	½ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.89	759.3	30.11	764.7	71.2	21.8	74	w.			2		5		e.	0.059	1.5	cloudy	M. Monillot, Director.
Rodez, Normal School	28.01	711.5	30.10	764.6	68.4	20.2	69	nw.			1		8		w.	0.091	2.3	very cloudy	M. Seger, Director.
Rouen, Normal School	30.02	762.4	30.06	763.6	67.0	19.8	88	w.			1		5	sw.		0.12	3.	raining	M. Brotier.
Saint Maur, Observatory	29.88	759.0	30.05	763.2	67.5	19.7	85	ne.			1		10		ssw.	0.004	0.1		M. Renou, Director.
Toulouse, Observatory	29.46	748.3	30.19	766.8	79.5	26.4	47	nnw.			1		5	nw.		0	0	cloudy	M. Baillaud, Director.
Tours	29.90	759.4	30.08	764.0	68.0	20.0	76	sw.			1		10	nw.	w.			rainy	M. de Tastes.
Versailles, Observatory	29.58	751.2	30.07	763.7	68.0	20.0	81	wsw.			2					0.146	3.7		Dr. A. Berigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.77	756.2	30.06	763.6	70.0	21.1	78	sse.			1		10		ssw.	0.012	0.3	prinkling	M. Marié Davy, Director
German.																			
Ansbach	28.63	727.2	30.06	763.4	61.5	16.4	60	nw.			2		4	nw.		0.067	1.7		Prof. Jnedt.
Bamberg	29.19	741.4	30.04	763.1	64.8	18.2	63	nw.			2	0	7 ks			0	0		Prof. Dr. Hoh.
Berlin	29.72	754.8	29.89	759.3	59.7	15.4	89	sw.			2		10			0	0		Prof. Dr. Arndt.
Breslau	29.44	747.7	29.97	761.2	64.2	17.9	67	wsw.			2		10			0.055	1.4		Royal University Obs'y.
Carlsruhe	29.65	753.2	30.09	764.2	65.3	18.5	67	sw.			1		5	sw.		0	0		Albert Senz.
Cassel	29.31	744.4	30.02	762.5	67.0	19.8	55	nw.			3		4	w.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.71	754.5	30.06	763.5	66.6	19.2	64	sw.			1		5			0.386	9.8		Physical Society.
Friedrichshafen	28.69	728.6	30.09	764.2	66.2	19.0	73	w.			2		10	wnw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.89	759.3	29.98	761.6	66.2	19.0	62	nw.			4		10			0.004	0.1		E. Preller.
Kiel	29.95	760.7	29.97	761.1	65.8	18.8	63	nw.			2		10			0.024	0.6		Prof. Dr. G. Karsten
Leipsic, Astron'l Obs'y	29.57	751.0	29.98	761.5	64.9	18.3	63	nw.			2		10	nw.		0	0		H. Leppig, Asst.
Magdeburg	29.77	756.2	29.96	761.0	60.4	15.8	93	nw.			3		10 n			0.055	1.4	raining	Dr. Assmann.
Memel	29.89	759.1	29.93	760.3	82.2	27.9	38	e.			2		1 cs	0					Issermann.
Munich	28.28	718.2	30.15	765.7	60.6	15.9	64	nw.			2		9	nw.		0.398	10.1		Dr. C. Lang.
Neufahrwasser	29.85	758.3	29.87	758.7	69.8	21.0	77	ne.			2		6	e.		0.067	1.7		A. Lothes.
Neustadt, Palatinate	29.50	749.2	30.02	762.6	66.2	19.0	65	wsw.			1		8	w.		0.270	7.0		Dickuether.
Stuttgart	29.13	739.9	30.00	762.1	66.2	19.6	61	n.			1		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.87	758.6	29.89	759.3	66.2	19.0	87	n.			5		10 s			0.535	13.6		Profs. Brandes & Reimer
Greek.																			
Athens	29.44	747.7	29.80	756.9	90.3	32.4		sw.			3.0		0			0	0		Schmidt & Wourlisch
Indian.																			
Kurrachee	29.63	752.5	29.68	753.8	83.7	28.7	75	wsw.	30.0	13.4			3			0	0	d. clouds	
Deesa	29.16	740.7	29.62	752.5	88.9	31.6	51	sw.	16.0	7.2			4	sw.	sw.	0	0	d. clouds	
Bombay	29.76	755.8	29.80	756.8	82.6	28.1	77	nnw.	12.0	5.4			9	nnw.	nw.	0	0	d. clouds	
Poona, Yarrowda	27.93	709.3	29.79	756.6	74.9	23.8	76	wsw.	24.0	10.7			10	w.	w.	0.03	0.8	overcast	
Trichinopoly	29.47	748.6	29.75	755.6	92.3	33.5	42	n.	2.0	0.9			4			0.17	4.3	d. clouds	
Bellary	28.26	717.8	29.70	754.5	86.1	30.1	51	sw.	16.2	7.2			10			0	0	gloomy	
Belgaum	27.27	692.8	29.83	757.6	72.0	22.2	81	wnw.	10.0	4.5			5		sw.	0.09	2.3	showery	
Lahore	28.72	729.4	29.43	747.4	98.2	36.8	43	sw.	3.0	1.3			0			0	0	blue sky	
Roorkee	28.57	725.7	29.44	747.7	91.2	32.9	61	calm	1.9	0.8			4			0	0		
Agra	28.96	735.6	29.51	749.4	93.1	33.9	49	sw.	10.0	4.5			5		w.	0	0	d. clouds	
Nagpur	28.61	726.7	29.64	752.7	85.9	29.9	59	w.	6.0	2.7			9		w.	0	0	d. clouds	
Jubbulpore	28.28	718.4	29.62	752.4	83.3	28.5	64	nw.	6.1	2.7			9		nnw.	0	0	overcast	
Lucknow	29.15	740.3	29.51	749.6	90.1	32.3	53	wnw.	8.6	3.8			8		wsw.	0	0	d. clouds	
Allahabad	29.23	742.4	29.53	750.1	88.7	31.5	62	sw.	2.0	0.9			9			0	0	d. clouds	
Patna	29.40	746.6	29.58	751.2	86.2	30.1	80	wnw.	3.4	1.5			10	wnw.	wnw.	0	0	overcast	
Hazaribagh	27.59	700.8	29.57	751.1	81.8	27.7	77	nnw.	7.2	3.2			10	n.	s.	0	0		
Cuttack	29.56	750.7	29.64	752.8	81.9	27.7	82	calm	0	0			9			2.45	62.2	d. clouds	
Calcutta, Alipore	29.61	752.0	29.63	752.6	76.0	24.4	94	ene.	8.0	3.6			10		e.	1.17	29.7	thund'r st'm	
Dhubri	29.55	750.5	29.67	753.5	76.3	24.6	95	ne.	14.0	6.3			10			0.42	10.7	raining	
Chittagong	29.59	751.5	29.68	753.8	78.9	26.1	91	ese.	3.4	1.5			10			0	0	d. clouds	
Sibsagar	29.30	744.3	29.64	752.8	82.0	27.8	91	sw.	4.0	1.8			6	e.	e.	0.165	41.9	d. clouds	
Jeypore	28.14	714.6	29.54	750.2	91.7	33.2	46	sw.	9.9	4.4			3		sw.	0	0	d. cloudy	
Zanzibar, Africa	30.04	763.0			79.0	26.1	67	s.	8.4	3.8			5		se.	0	0	d. clouds	
Italian.																			
Udine	29.58	751.3	29.97	761.3	72.9	22.7	44	sw.	1.3	0.6			2			0.91	2.3		Prof. Giovanni Cloelia.
Milan	29.48	748.7	29.97	761.3	75.9	24.4	49	s.	4.3	1.9			1			0	0		Prof. Schiaparelli.
Padua	29.82	757.4	29.93	760.1	73.0	22.8	44	w.	1.8	0.8			0			0.059	1.5		Prof. Dott. Lorenzoni.
Moncalieri	29.09	738.8	29.96	761.0	77.0	25.0	46	wnw.	1.8	0.8			3			0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Velocity. Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Genoa	29.75	755.7	29.94	760.4	79.5	26.4	36	se.	7.4	3.3			0			0	0		Prof. G. M. Garibaldi.
Mondovi	28.10	713.7	29.93	760.3	72.1	22.3	41	w.			2		0			0	0		Prof. D. O. Bruno
Pesaro	29.93	760.1	29.97	761.3	72.7	22.6	60	n.	11.0	5.0			1			0	0		Prof. Luigi Guidi.
Florence	29.69	754.1	29.93	760.3	78.4	25.8	46	sw.			2		1	n.		0.138	3.5		Prof. Costantino Pitt'er
Leghorn	29.80	756.9	29.88	759.0	79.3	26.3	57	w.	9.4	4.2			2			0	0		Prof. P. Monte.
Rome	29.75	755.6	29.92	759.9	84.6	29.2	33	calm	0	0			4			0	0		Prof. P. Tachini.
Lecce	29.05	753.0	29.89	759.1	81.9	27.7	46	nw.	12.5	5.6			4	nw.		0	0		Prof. C. de Giorgi.
Cosenza	29.06	738.1	29.91	759.8	79.2	26.2	70	sw.	3.1	1.4			5	s.		0	0		Prof. D. Conti.
Cagliari	29.76	755.8	29.95	760.6	81.5	27.5	31	nw.			6		0			0	0		Prof. A. Pacinotti.
Palermo	29.72	755.0	29.97	761.1	83.3	28.5	46	nw.	4.3	1.9			2			0	0		Prof. G. Giacciatore.
Syracuse	29.88	759.0	29.93	760.1	80.6	27.0	68	ese.	7.4	3.3			2	wsw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.42	747.2	29.92	759.9	80.8	27.1	53	sw.	5.6	2.5			1	w.		0	0		Prof. T. Brioschi.
Stelvio	22.30	566.5			39.9	4.4	69	ene.			2		8			0	0	covered	Prof. P. F. Denza.
Valdobbia	22.30	566.5			50.0	10.0	67	n.			2		3			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.96	761.0	29.99	761.7	71.6	22.0	79	calm	0	0			10 ks		nnw.	0	0	overcast	K. Ogawa.
Hakodate	29.96	761.0	29.97	761.2	71.0	21.7	81	wnw.	4.8	2.1			6			0	0	cloudy	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.77	756.1	29.94	760.5	75.4	24.1	94	n.	1.8	0.8			10 n			inap.	inap.	light rain	M. Fojima.
Nagasaki, I. M. Obs'y	29.70	754.4	29.89	759.3	79.4	26.3	90	sw.	1.5	0.7		0	0			0	0	misty	
Nemuro	30.02	762.5	30.09	764.3	60.5	15.8	90	calm	0	0		0	0			0	0	clear	
Niigata	29.94	760.5	29.98	761.5	69.3	20.7	88	nne.	6.7	2.9		0	1 cks			0	0	clear	M. Morita.
Nobiru	29.97	761.2	29.99	761.6	66.8	19.3	98	s.	2.0	0.9		0	1 8			0	0	fair	H. Midzushima.
Osaka	29.89	759.2	29.90	759.4	77.2	25.1	98	nne.	1.9	0.8			9ck;ks			0	0	cloudy	
Sapporo					63.5	17.5	90	nw.	7.2	3.2			5			0.300	7.6	fair	
Tokei Obs'y, Yeddo	29.92	760.0	30.00	761.9	71.6	22.0	96	se.	2.0	0.9			10 n			0.271	6.9	raining	The Staff.
Wakayama	29.88	758.9	29.93	760.2	80.2	26.8	81	w.	6.7	3.0			10		w.	0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.92	760.0	30.11	764.8	73.6	23.1	66	ene.	18.0	8.0		0	6 k;n		ene.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.71	602.2	29.93	760.2	59.5	15.3	83	nne.	0	0		4 c	1 k		se.	0	0	fair	Prof. Vicente Fernandez.
Leon.†	24.36	618.7	30.03	762.7	59.4	15.2	94	nne.			1	8 c	0	se.		0.166	4.2	cloudy	Prof. M. Leal.
Mazatlan	29.70	754.4	29.96	760.9	79.0	26.1	76	ene.	0.9	0.4		8 ck	1 k	se.		0.216	5.5	very cl'dy	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.3	30.13	765.4	55.4	13.0	93	sw.	0.2	0.1		4 ck	3 ks	sw.		0.166	4.2	½ cloudy	The Staff.
Morelia	24.20	614.6	30.31	769.9	59.2	15.1	63	n.			3	1	0	e.		0	0	clear	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Rabellon, Aguascalientes	23.97	608.9	29.89	759.1	61.9	16.6	92	calm			0	0	8 ks		e.	0.050	1.3	cloudy	M. V. de Leon, M. E
Puebla, Catholic Institute	23.43	595.2	30.17	766.3	54.5	12.5	90	calm			0		10		s.	0.386?	9.3?	covered	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D.
Zacatecas	22.51	571.8	30.06	763.5	58.0	14.2	81	nw.	3.8	1.7		7 cs	0	ne.		0	0	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.03	762.8	30.03	762.8	71.2	21.8		sw.			2					0	0		
Groningen	29.97	761.3	30.03	762.7	67.5	19.7		nw.			1					0	0		
Helder	30.01	762.2	30.01	762.2	65.1	18.4		ssw.			1					0	0		
Hellevoetsluis	30.02	762.6	30.02	762.6	70.2	21.2	70	wsw.			2					0	0		
Utrecht	30.01	762.2	30.06	763.4	66.0	18.9	79	sse.			2		2			0	0	lightly cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.87	758.8	29.94	760.4	64.8	18.2	62	ssw.	13	6			2			0	0		
Brono	29.82	757.5	29.86	758.5	61.0	16.1	88	sw.	9	4			10			0.059	1.5	foggy	
Christiania	29.77	756.2	29.91	759.8	72.3	22.4	69	wsw.	7	3			4			0.311	7.9		
Gjæsvær	29.87	758.6	29.89	759.2	50.9	10.5		ne.			2		10						
Lodingen	29.78	756.5	29.83	757.7	64.4	18.0	82	ssw.			2		5			0.583	14.8		
PORTUGUESE.																			
Angra, Azores					75.2	24.0	80	w.	3.1	1.4			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.01	736.8	29.94	760.4	94.6	34.8	23	sw.	0.7	0.3			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.98	761.5	30.07	763.7	74.7	23.7	67	sw.	4.3	1.9			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.70	754.3	30.04	763.0	81.0	27.2	51	n.	10.5	4.7			0			0	0		The Staff.
Ponta Delgada, Azores	30.21	767.4	30.28	769.2	77.0	25.0	61	sw.	4.3	1.9			4			0	0		
Saint Paul de Loando	29.82	757.4	30.02	762.6	73.0	22.2	88	sse.			1		3	sse.		0	0		
Serra da Estrella	25.45	646.5	29.97	761.1	72.5	22.5	38	sse.	10.5	4.7			2			0	0		
RUSSIAN.																			
Akmolinski	28.78	730.9	29.81	757.2	68.9	20.5	52	sw.	4	2		0	7 k			0	0		Major K. Lasarew.
Archangel	29.90	759.5	29.92	760.0	73.6	23.1	68	w.	4	2		0	7 ks			0.047	1.2		Capt. Sseliwerstow.
Astrakhan	29.97	761.3	29.89	759.2	87.4	30.8	44	ssw.	4	2		0	3 ks			0	0		Capt. Wisganow.
Barnaul	29.30	744.2	29.79	756.6	59.5	15.3	57	sw	9	4			9			0.031	0.8		Meteorological Obs'y.
Dorpat	29.76	756.0	29.99	761.8	81.1	27.3	43	e.	4	2		0	2 k			0	0		Observatory.
Ekaterinburg	28.97	735.7	29.88	759.0	73.6	23.1	42	nw.	7	3		4 ck	0			0.012	0.3		Meteorological Obs'y.
Irkutsk																			
Kasan	29.74	755.4	29.99	761.8	83.3	28.5	36	calm	0	0		0	7			0	0		Observatory.
Kertch	29.82	757.3	29.84	757.8	77.4	25.2	83	se.	18	8		0	5 ks			0	0		Lagorio & Sastyrez.
Kieff	29.15	740.3	29.75	755.6	75.0	23.9	62	ene.	2	1			10ks;n						Observatory.
Lugan	29.62	752.4	29.82	757.4	75.4	24.1	75	ssw.	13	6			6			0.024	0.6		Meteorological Obs'y.
Moscow	29.53	750.1	29.98	761.4	78.6	25.9	38	s.	13	6		0	6 ks						Meteorological Obs'y.
Nikolaiev	29.78	756.4	29.85	758.2	82.8	28.2	55	w.	4	2		0	2 k			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.61	752.1	29.75	755.7	78.3	25.7	88	calm	0	0			9 n			0.020	0.5	raining	Physical Observatory.
St. Petersburg	29.99	761.8	30.01	762.2	83.3	28.5	40	sw.	7	3		0	4 k			inap.	inap.		Central Physical Obs'y.
Semipalatinsk	29.30?	744.2?	29.95?	760.6?	61.5	16.4	60	wsw.	4	2			8			0.028	0.7		Major Lasarew
Tashkend, Laboratory	28.27	718.0	29.75	755.7	79.5	26.4	54	calm	0	0			8			0	0	light clouds	Teich, A. M.
Tiflis	28.45	722.7	29.76	756.0	96.1	35.6	31	calm	0	0		0	2 k			0	0		Physical Observatory.
Vladivostock	29.84	758.0	29.91	759.7	66.9	19.4	95	e.	4	2		0	0						
Warsaw	29.45	748.1	29.87	758.6	60.8	16.0	90	sw.	7	3			10 ks					heavy clouds	Astronomical Obs'y.
Wilna	29.50	749.2	29.89	759.3	77.4	25.2	58	ese.	4	2			4			0	0		Berg, Assistant.
Yeniseisk	29.45	747.9	29.72	755.0	61.2	16.2	91	w.	2	1			4			0.248	6.3	raining	M. O. Marks.
SCOTTISH.																			
Monach Lt.			29.76	755.9	59	15.0	94	wsw.			4		10			0.3	S.	overcast	J. Youngclause.
North Unst			29.88	758.9				sw.			4	0	7						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.95	760.7	30.05	763.2	77.4	25.2	69	e.	3.6	1.6		0	5			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.10	764.5	30.16	766.0	80.6	27.0	56	nw.	1.6	0.7		3	2	e.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.20	690.9	30.03	762.7	79.0	26.1	43	ne.	6.3	2.8		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.87	707.9	29.95	760.6	91.8	33.2	30	e.	3.8	1.7		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.91	759.6	30.05	763.3	88.7	31.5	65	se.	5.8	2.6		0	0			0	0	clear	Olayo Diaz, Director
Oviedo	29.30	744.2	30.04	763.0	67.6	19.8	80	n.	3.4	1.5		0	7 n			0	0	cloudy	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.18	741.2	30.04	763.0	76.5	24.7	53	n.	7.4	3.3		0	0			0	0	clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.98	761.4	30.04	763.1	77.9	25.5	88	se.	2.0	0.9		2 c;ck	0	s.		0.49	12.5	clear	Benito Vines, S. J.
Manila, Philippine Islands	29.85	758.2	29.91	759.6	82.7	28.2	80	sw.	16.5	7.4		1 c	2 ks	ne.	sw.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.91	759.7	30.00	762.1	91.4	33.0	25	ese.	12.3	5.5		0	0			0	0		Capt. C. Pujazon R. N.
San Juan de Porto Rico, W. I	29.94	760.4	30.03	762.7	80.6	27.0	92	e.	2.2	1.0		4 cs	2 k	e.	e.	0.346	8.8	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.72	754.9	29.85	758.2	82.2	27.9	84	nnw.	2.9	1.3		0	2 k			0	0	fair	José L. Yrastorza.
SWEDISH																			
Haparanda	29.89	759.1	29.93	760.1	71.6	22.0	67	sw.			4		0			0	0		
Umea	29.92	759.9	29.97	761.2	74.1	23.4	59	sw.			4		0			0.236	6.0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Hernosand	29.87	758.6	29.92	759.9	73.8	23.2	20	ssw.			2		0			0	0		
Stockholm	29.78	756.4	29.96	760.9	80.6	27.0	49	se.			2		3			0	0		
Wisby	29.86	758.5	29.92	760.0	72.7	22.6	68	nne.			4		5			0	0		
Sub-series.																			
Upsala	29.85	758.2	29.94	760.4	80.6	27.0	48	ssw.	7.8	3.5			9	sw.	s.	0	0		S. G. Fineman.
Swiss.																			
Geneva	28.69	728.8	30.08	763.9	69.4	20.8	40	n.			2		0			0	0	clear	The Observatory
Turkish.																			
Constantinople			29.81	757.1	89.8	32.1	34	ene.	11	5.0			0			0	0		The Observatory.
Valona			30.08	764.1	81.3	27.4		sw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.79	756.7	85.3	29.6	67	wnw.			1	0	0			0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	29.89	759.2	29.97	761.2	64	17.8	68	n.	6	2.7		0	3 k		nw.	0.05	1.3	clear	J. O. Barnes.
Alpena, Michigan	29.51	749.5	30.15	765.8	55	12.8	80	nw.	4	1.8		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.15	638.8	29.87	758.7	60	15.6	67	e.	3	1.3		0	0			0	0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.20	690.9	29.95	760.7	54	12.2	80	sw.	5	2.2		0	2 s		sw.	0.72	18.3	clear	B. O. Lenoir.
Atlanta, Georgia	28.84	732.5	29.99	761.7	71.0	21.7	90	nw.	7	3.1		2 k	6 s			0.45	11.4	cloudy	H. Hall.
Atlantic City, New Jersey	29.90	759.4	29.91	759.7	70	21.1	78	n.	10	4.5		4 c	0			inap.	inap.	fair	Jas. M. Watson.
Augusta, Georgia	29.82	757.4	30.02	762.5	76	24.4	90	sw.	3	1.3			10 s		sw.	0.42	10.7	cloudy	John Healy.
Baltimore, Maryland	29.94	760.5	29.99	761.7	72	22.2	66	n.	6	2.7		3 ck	0	w.		0	0	clear	Robert Seyboth.
Barnegat, New Jersey	29.88	758.9	29.99	759.4	71.5	21.9	80	n.	14	6.3		3 ck	0			0.09	2.3	clear	G. A. Hill.
Bennett, Fort, Dakota	28.24	717.3	29.78	756.4	73	22.8	55	s.	11	4.9		5 k	2 s			0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.24	691.9	30.03	762.7	56	13.3	93	nw.	4	1.8		0	2 s			0.15	3.8	clear	S. Wheaton.
Behring Island, Behring Sea	29.81	757.2	29.83	757.7	53.6	12.0		s.	2	0.9			fg.			inap.	inap.	light rain	Dr. L. Steineger.
Bismarck, Dakota	27.94	709.7	29.69	754.1	72	22.2	68	se.	6	2.7		2 cs	6 s		sw.	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	29.84	757.9	29.87	758.7	66	18.9	84	n.	16	7.2		3 ck	3 ks	n.	n.	0	0	fair	J. T. Eiker.
Boise City, Idaho	27.22	691.4	29.97	761.2	47	8.3	71	nw.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.75	755.6	29.90	759.4	64.0	17.8	58	nw.	16	7.2		0	8 s		w.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	30.00	762.0	30.04	763.0	75.0	23.9	90	calm	0	0		0	0			inap.	inap.	clear	M. McCarty.
Buffalo, New York	29.34	745.2	30.07	763.8	56	13.3	74	ne.	5	2.2		0	3 ks		n.	0.40	10.2	clear	Clarence Weaver.
Buford, Fort, Dakota	27.76	705.6	29.72	754.9	70	21.1	70	w.	16	7.2		7 cs	0	w.		0	0	fair	A. H. Bell.
Burlington, Vermont	29.68	753.9	29.97	761.2	54.0	12.2	74	n.	11	4.9		1 cs	9 s	w.	n.	0.21	5.3	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.73	755.1	30.12	765.0	67.6	19.8	80	n.	4	1.8		0	0			0	0	clear	W. H. Ray.
Campo, California	27.38	695.4	29.88	758.9	57.2	14.0	86	se.	2	0.9		3 ck	1 ks	e.	e.	0.25	6.3	fair	W. H. Clendenon
Cape Henry, Virginia	29.92	760.0	29.94	760.5	75	23.9	90	w.	8	3.6		0	8 s			0.01	0.3	cloudy	A. K. Alderson.
Cape May, New Jersey	29.90	759.4	29.93	760.2	71.2	21.7	76	n.	18	8.0		4 cs	0	w.		inap.	inap.	fair	W. E. Smith.
Cape Mendocino	29.42	747 3			49	9.4	100	n.	24	10.7			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	30.04	763.0	30.06	763.5	80	26.7	74	w.	5	2.2		7 ck	0			0.07	1.8	fair	F. W. Mixer.
Champaign, Illinois	29.33	745.0	30.12	765.0	59.4	15.2	79	n.	8	3.6		0	hz.			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	29.95	760.7	30.00	762.0	79	26.1	82	w.	7	3.1		5 ck	4 s	w.	w.	0.18	4.6	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.13	739.9	29.96	761.0	73.0	22.8	76	n.	4	1.8		5 ck	0	w.		0.14	3.6	fair	D. O'Donoghue.
Chattanooga, Tennessee	29.23	742.4	30.04	763.0	68.4	20.2	91	nw.	3	1.3		4 k	fg.	sw.		0.10	2.5	fair	B. L. Goulding.
Cheyenne, Wyoming	24.15	613.4	29.85	758.2	53.2	11.8	43	calm	0	0		1 c	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.43	747.5	30.12	765.0	63.8	17.7	88	n.	3	1.3		10 k	fg.	n.		0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	29.90	759.4	29.92	760.0	72	22.2	84	n.	16	7.2		9 cs	0	w.		0.30	7.6	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.46	748.3	30.10	764.5	65.3	18.5	89	nw.	1	0.4		0	fg.			0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.37	746.0	30.09	764.3	63.7	17.6	63	n.	9	4.0		5 k	0	nw.		inap.	inap.	fair	J. B. Newlin.
Coleman City, Texas	28.26	717.8	30.00	762.0	71	21.7	97	se.	3	1.3		0	9 s			0.10	2.5	cloudy	L. Dorman.
Columbus, Ohio	29.24	742.7	30.08	764.0	61	16.1	78	n.	3	1.3		0	0			0	0	clear	D. Cuthbertson.
Concho, Texas	28.11	714.0	29.97	761.2	70	21.1	97	ne.	2	0.9			10 s		se.	1.30	33.0	cloudy	W. W. McConihe.
Custer, Fort, Montana	26.91	683.5	29.97	761.2	59	15.0	78	nw.	12	5.4		0	2 s		calm	0.01	0.3	clear	W. B. Lamar.
Davenport, Iowa	29.52	749.8	30.15	765.8	64	17.8	90	ne.	1	0.4		0	hz.		calm	0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.20	640.1	29.85	758.2	62	16.7	93	s.	4	1.8			10 s		s.	0.20	5.1	cloudy	J. Williams.
Dayton, Washington T'y	28.42	721.9	30.13	765.3	46.3	7.9	73	se.	2	0.9		3 cs	0	sw.		0	0	clear	H. Clifford.
Deadwood, Dakota	25.34	643.6	29.78	756.4	74	23.3	40	e.	8	3.6		10 k	0	sw.		0	0	cloudy	G. W. Scott.
Decatur, Texas					75	23.9	64	se.	5	2.2			10 s			0	0	cloudy	D. J. Carr.
Delaware Breakwater, Del.	29.92	760.0	29.94	760.5	73	22.8	71	n.	18	8.0		3 cs	0	w.		0	0	clear	T. S. Townsend.
Denison, Texas																			J. McGlone.
Denver, Colorado	24.81	630.2	29.83	757.7	64.5	18.1	43	nw.	4	1.8		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.27	743.4	30.15	765.8	63	17.2	84	calm	0	0		0	fg.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.43	747.5	30.12	765.0	59.0	15.0	81	n.	8	3.6		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.51	698.7	29.99	761.7	65	18.3	84	s.	3	1.3		0	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.46	748.3	30.15	765.8	59.5	15.3	93	calm	0	0			fg			0	0	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.42	747.3	30.14	765.5	57	13.9	80	ne.	10	4.5		0	5 s		ne.	0	0	fair	N. B. Conger.
Eagle Pass, Texas	29.22	742.2	30.01	762.2	75.1	23.9	90	se.	7	3.1			10 s			0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.35	643.9	29.90	759.4	50	10.0	39	sw.	12	5.4		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.70	754.4	29.76	755.9	62.0	16.7	72	nw.	10	4.5		0	0			0.03	0.8	clear	D. C. Murphy.
Elliott, Fort, Texas	27.32	693.9	29.96	761.0	59	15.0	87	s.	1	0.4		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.29	667.8	29.89	759.2	65	18.3	84	calm	0	0		0	2 ks			0.04	1.0	clear	J. F. Marshall
Erie, Pennsylvania	29.36	745.7	30.06	763.5	61	16.1	78	ne.	8	3.6		7 k	0	ne.		0	0	fair	Peter Wood.
Escanaba, Michigan	29.54	750.3	30.18	766.6	51.8	11.0	81	n.	5	2.2		0	0			0	0	clear	George Heathcote.
Fredericksburg, Texas	28.34	719.8	30.05	763.3	75	23.9	88	calm	0	0		0	3 s			0	0	fair	Frank Halwegler.
Galveston, Texas	30.00	762.0	30.05	763.3	81	27.2	82	s.	4	1.8		2 c	6 ks		se.	0	0	cloudy	E. O'C. MacInerney.
Grand Haven, Michigan	29.49	749.0	30.14	765.5	59.5	15.3	81	ne	4	1.8		0	0			0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.26	641.6	29.83	757.7	64.1	17.8	84	calm	0	0		0	2 s			0.01	0.3	clear	Robert C. Lord.
Hatteras, North Carolina	29.95	760.7	29.97	761.2	75	23.9	90	sw.	30	13.4		9 k	0	nw.		0.75	19.0	threatening	R. M. Crawford.
Helena, Montana	25.95	659.1	30.04	763.0	56	13.3	53	s.	6	2.7		0	0			inap.	inap.	clear	N. C. Smith.
Henrietta, Texas	29.11	739.4	30.11	764.8	76.0	24.4	85	calm	c	0			10 s			0.31	7.9	cloudy	J. W. Byram.
Huron, Dakota	28.56	725.4	29.90	759.4	64.9	18.3	84	se.	18	8.0		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.33	745.0	30.10	764.5	65	18.3	84	ne.	1	0.4		0	hz.			0	0	clear	O. Schutze
Indianola, Texas	30.00	762.0	30.03	762.7	79.2	20.2	88	s.	5	2.2		0	5 ks			0	0	fair	I. A. Reed.
Jacksboro, Texas	28.91	734.3	30.03	762.7	74	23.3	97	e.	6	2.7			10 n		e.	0.39	9.9	light rain	J. P. Sherry.
Jacksonville, Florida	30.02	762.5	30.06	763.5	81	27.2	79	sw.	8	3.6		5 cs	0	w.		0.02	0.5	fair	J. W. Smith.
Keogh, Fort, Montana	27.52	698.5	29.92	760.0	63	17.2	67	nw.	16	7.2		8 cs	0	nw.		0	0	cloudy	A. Schneider.
Keokuk, Iowa	29.48	748.8	30.10	764.5	67.0	19.4	81	e	1	0.4		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	85.0	29.4	72	e.	2	0.9		4 c	2 k		e.	0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	29.95	760.7	29.97	761.2	74	23.3	90	w.	8	3.6		0	8 ks		nw.	0.19	4.8	cloudy	E. A. Beals.
Knoxville, Tennessee	29.03	737.3	30.04	763.0	65.2	18.4	100	ne.	6	2.7			10 s		ne.	0.26	6.6	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.36	745.7	30.11	764.8	66	18.9	78	s.	5	2.2		0	6 s		s.	0	0	fair	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.27	743.4	30.13	765.3	62	16.7	87	calm	0	0		0	fg.			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.38	746.2	30.19	766.8	51.5	10.8	80	ne.	1	0.4		0	0			0.06	1.5	clear	W. Bell.
Little Rock, Arkansas	29.78	756.4	30.08	764.0	73	22.8	84	n.	1	0.4		3 k	3 ks			0	0	fair	W. U. Simons.
Los Angeles, California																			Egbert van Dyke.
Louisville, Kentucky	29.52	749.8	30.07	763.8	64	17.8	90	n.	5	2.2		0	0			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.32	744.7	29.99	761.7	71	21.7	76	calm	0	0		0	4 ks		w.	0	0	fair	Lewis Duane.
Macon, Fort, North Carolina	29.96	761.0	29.97	761.2	75	23.9	90	w.	14	6.3		10 k	0	w.		0.15	3.8	cloudy	F. P. Chaffee.
Madison, Wisconsin	29.16	740.7	30.14	765.5	64	17.8	84	s.	3	1.3		0	9 s		nw.	0	0	cloudy	O. A. Shaw.
Maginnis, Fort, Montana	25.68	652.3			49	9.4	61	nw.	14	6.3		4 k	0	w.		0.01	0.3	fair	H. W. Dodge.
McKavett, Fort, Texas	27.85	707.4	30.06	763.5	70	21.1	84	s.	3	1.3			10 s			0.03	0.8	cloudy	J. E. Thatcher.
Marquette, Michigan	29.49	749.0	30.20	767.1	52	11.1	72	w.	6	2.7		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.74	755.4	30.07	763.8	71	21.7	84	n.	5	2.2		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.41	747.0	30.14	765.5	64	17.8	84	n.	3	1.3			10 s		n.	0	0	cloudy	W. Line.

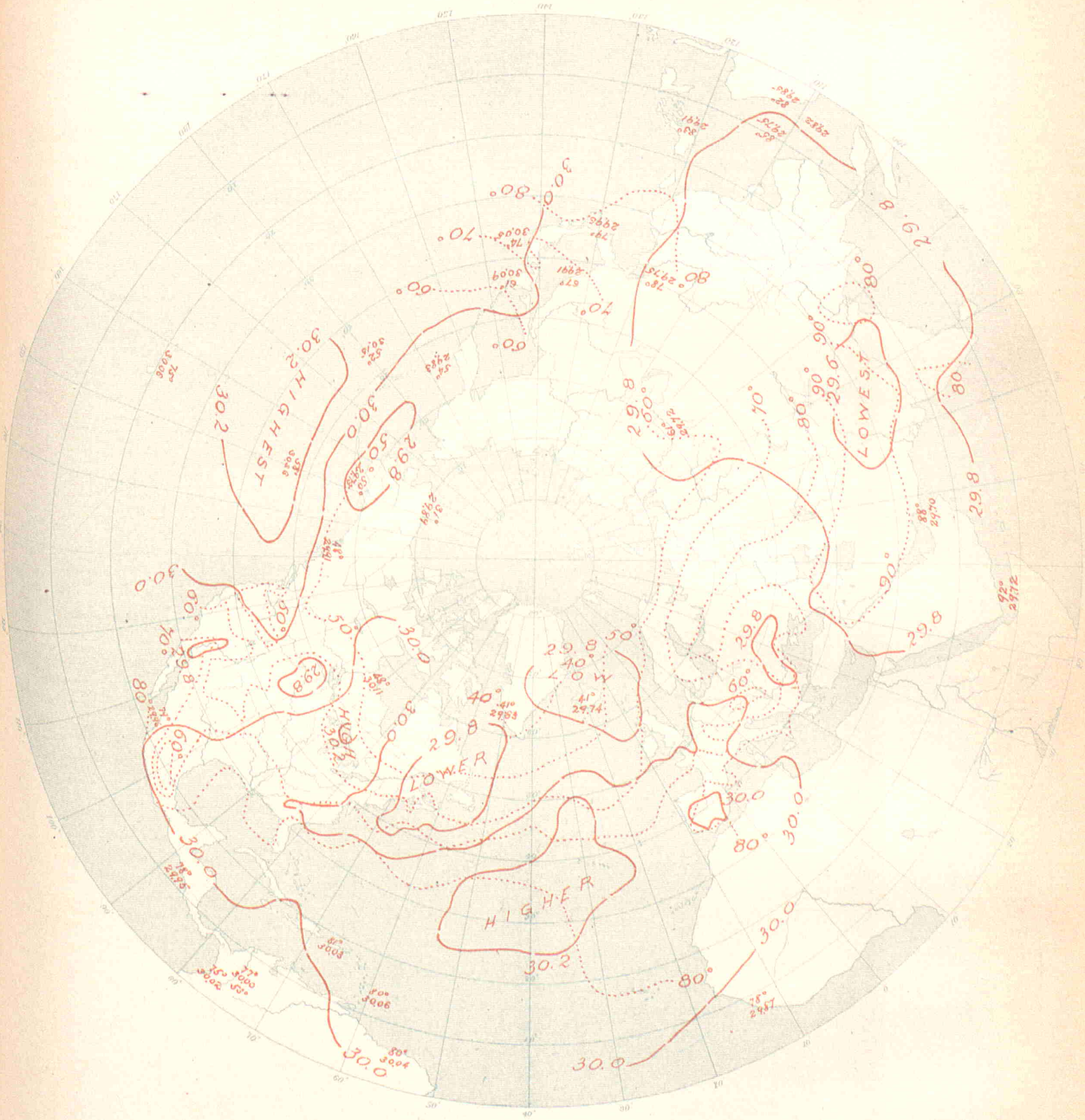
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.93	684.0	30.15	765.8	57	13.9	69	se.	2	0.9		0	0			inap.	inap.	clear	J. H. Jones.
Mobile, Alabama	29.98	761.5	30.02	762.5	72	22.2	94	n.	3	1.3		5cs;ck	0	sw.		0.93	23.6	fair	O. A. Read.
Montgomery, Alabama	29.79	756.7	30.02	762.5	70.6	21.4	95	nw.	4	1.8			10 s			0.47	11.9	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.93	734.8	29.90	759.4	67	19.4	84	se.	20	8.9		3 cs	3 s	se.	s.	0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.16	740.7	30.16	766.1	65.0	18.3	93	n	8	3.6		0	1 s			0.03	0.8	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.65	600.7	29.73	755.1	32.0	0.0	92	nw.	52	23.3		0	7 s		nw.	0.49	12.4	fair	J. G. Linsley.
Nashville, Tennessee	29.48	748.8	30.04	763.0	68.0	20.0	87	n.	4	1.8		0	3ks;fg		w.	0.01	0.3	clear	L. N. Jesunofsky.
New Haven, Connecticut	29.80	756.9	29.91	759.7	66	18.9	68	nw.	11	4.9		1 cs	0	n.		0	0	clear	J. H. Sherman.
New London, Connecticut	29.84	757.9	29.90	759.4	69	20.6	70	n.	3	1.3		6 ck	0	w.		0	0	fair	J. G. Lynch.
New Orleans, Louisiana	29.96	761.0	30.02	762.5	79.5	26.4	78	s.	3	1.3		7 c	0	sw.		0	0	fair	L. Dunne.
Newport, Rhode Island	29.81	757.2	29.86	758.4	67.7	19.8	67	nw.	13	5.8		0	8 k;s		nw.	0	0	cloudy	W. McGillivray.
New York, New York	29.77	756.1	29.94	760.5	69	20.6	70	nw.	8	3.6		0	0			0	0	clear	J. B. Merrill.
Norfolk, Virginia	29.92	760.0	29.95	760.7	75	23.9	90	w.	5	2.2		6 cs	0	w.		0.03	0.8	fair	Wm. Davis.
North Platte, Nebraska	27.16	689.9	29.96	761.0	66.6	19.2	64	s.	4	1.8		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.16	766.1	30.20	767.1	43.5	6.4	88	sw.	1	0.4		4 cs	0	sw.		0	0	fair	J. Dascomb.
Ogalaamie, Pt. Barrow, Alas.	29.87	758.7	29.89	759.2	31.4	— 0.3	96	e.	16	7.2			10 s		e.	0.01	0.3	cloudy	P. H. Ray.
Omaha, Nebraska	28.98	736.1	30.12	765.0	67.5	19.7	74	s.	3	1.3		0	0			0	0	clear	A. Pollak.
Oswego, New York	29.71	754.6	30.03	762.7	57.0	13.9	64	ne.	12	5.4			10 s		n.	inap.	inap.	cloudy	S. W. Beall.
Palestine, Texas	29.52	749.8	30.06	763.5	73.0	22.8	90	w.	1	0.4		7 ck	0	w.		0	0	fair	L. M. Pindell.
Pensacola, Florida	29.99	761.7	30.02	762.5	73.3	22.9	96	nw.	6	2.7		9 cs	0	w.		1.53	38.9	cloudy	M. McGauran.
Philadelphia, Pa.	29.86	758.4	29.96	761.0	70	21.1	70	nw.	11	4.9		0	0			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.68	459.2	29.87	758.7	38	3.3	58	nw.	7	3.1		1 cs	0			0	0	clear	L. M. Dey.
Pioche, Nevada	24.10	612.1	29.80	756.9	64	17.8	54	calm	0	0			10 ks		s.	inap.	inap.	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.26	743.2	30.05	763.3	61.7	16.5	84	n.	5	2.2			10 s		n.	0.04	1.0	cloudy	J. B. Turton.
Poplar River, Montana	27.71	703.8						ne.			6	0	0			0.09	2.3	clear	W. D. Maxwell.
Port Eads, Louisiana	30.01	762.2	30.02	762.5	78.4	25.8	87	se.	8	3.6			10 s			0.23	5.8	cloudy	M. Hermann.
Port Huron, Michigan	29.45	748.0	30.11	764.8	58.7	14.8	93	e.	5	2.2		4 k	0	n.		0	0	fair	W. O. Bailey.
Portland, Maine	29.80	756.9	29.85	758.2	63.0	17.2	47	n.	12	5.4		1 c	0	n.		0.04	1.0	clear	W. W. Eichelberger.
Portland, Oregon	30.07	763.8	30.14	765.5	52.0	11.1	86	calm	0	0		0	fg.			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					75	23.9	90	sw.	16	7.2		0	7 ks		sw.	0.66	16.8	fair	F. S. Coburn.
Prescott, Arizona	24.85	631.2	29.83	757.7	59	15.0	78	calm	0	0		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.82	757.4	29.85	758.2	65	18.3	78	n.	11	4.9		3 k	4 s	nw.		0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.04	763.0	30.05	763.3	78	25.6	76	e.	4	1.8		1 c	0	calm		0.13	3.3	clear	W. J. Evans.
Red Bluff, California								n.			2	0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.79	756.7	30.03	762.7	77	25.0	88	se.	5	2.2		2 c	0			0	0	clear	H. S. Miles.
Rochester, New York	29.40	746.7	30.05	763.3	55	12.8	74	ne.	4	1.8			10 k		ne.	0.01	0.3	cloudy	E. W. McGann.
Roseburg, Oregon	29.57	751.1	30.11	764.8	45	7.2	83	ne.	2	0.9		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.80	756.9	29.87	758.7	60.1	15.6	70	s.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.55	750.6	30.13	765.3	67.5	19.7	92	ne.	5	2.2		0	0			0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.23	742.4	30.07	763.8	64.0	17.8	90	n.	4	1.8		0	hz.			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.01	736.8	29.86	758.4	64	17.8	90	e.	10	4.5			10 s		e.	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.68	652.3	29.87	758.7	68	20.0	53	calm	0	0		8 k	0	sw.		0	0	cloudy	J. Craig.
San Antonio, Texas	29.34	745.2	30.03	762.7	75.0	23.9	90	e.	1	0.4		2 ck	2 s			0	0	fair	T. J. Kenan.
San Diego, California	29.82	757.4	29.89	759.2	68.4	20.2	86	sw.	2	0.9		6 k	4 s			0	0	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.41	747.0	30.07	763.8	65.8	18.8	58	ne.	13	5.8		5 k	0	n.		0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	29.90	759.4	29.93	760.2	69.0	20.6	76	n.	22	9.8		0	8 ks		n.	0	0	cloudy	B. A. Blandon.
San Francisco, California	29.86	758.4	29.94	760.5	54.5	12.5	86	sw.	11	4.9		0	0			0	0	clear	N. Gerom.
Santa Fé, New Mexico	23.36	593.3	29.85	758.2	57	13.9	57	e.	10	4.5		0	0			0	0	clear	H. U. Jones.
Savannah, Georgia	29.93	760.2	30.02	762.5	82	27.8	74	sw.	5	2.2		4 cs	0			inap.	inap.	fair	H. W. Ford.
Shaw, Fort, Montana	26.47	672.3	30.00	762.0	51	10.6	61	sw.	20	8.9		2 k	0	w.		0.11	2.8	clear	A. L. Mathews.
Shreveport, Louisiana	29.81	757.2	30.04	763.0	75	23.9	90	n.	3	1.3		0	9 s			inap.	inap.	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.85	732.8	30.03	762.7	70.5	21.4	95	n.	4	1.8		0	9 s		nw.	0.05	1.5	cloudy	T. Cleary.
Silver City, New Mexico	24.37	619.0	29.83	757.7	57	13.9	57	calm	0	0		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.85	758.2	29.91	759.7	48.1	8.9	93	ne.	4	1.8		2 k	0	ne.		0.59	15.0	clear	J. J. McLean.
Smith, Fort, Arkansas	29.60	751.8	30.05	763.5	70.5	21.4	84	e.	4	1.8		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	29.95	760.7	29.99	761.7	76	24.4	85	nw.	7	3.1			10 n		w.	0.02	0.5	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.14	714.7	30.14	765.5	53	11.7	69	se.	5	2.2		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.48	748.8	30.14	765.5	64	17.8	78	ne.	3	1.3		0	0			0	0	clear	T. B. Jennings.
Springfield, Massachusetts	29.79	756.7	29.92	760.0	66.2	19.0	68	n.	8	3.6		4 k	0	w.		0	0	fair	T. S. Outram.
Springfield, Mo.	28.70	729.0	30.09	764.3	62	16.7	90	e.	4	1.8		0	2s;fg			0	0	clear	J. B. Marbury.
Starkville, Miss.	29.58	751.3	30.06	763.5	71.8	22.1	84	nw.	5	2.2		3 cs	1 s			1.17	29.7	fair	M. J. Wright, jr.
Stevenson, Fort, Dakota	27.89	708.4	29.67	753.6	69	20.6	76	se.	4	1.8			10 ks		sw.	c	0	cloudy	W. Burrows.
Stockton, Fort, Texas	27.03	686.5	29.97	761.2	66.0	18.9	93	calm	0	0			10 s		s.	0	0	cloudy	J. O'Dowd.
Thomas Camp	27.21	691.1	29.83	757.7	71	21.7	71	calm			0	1 cs	1 k			0	0	clear	
Thatcher's Island, Mass.	29.82	757.4	29.87	758.7	61.5	16.4	72	nw.	20	8.9		5 k	0	w.		0.03	0.8	fair	G. Liebmann.
Toledo, Ohio	29.41	747.0	30.08	764.0	62	16.7	84	n.	4	1.8		0	5 k		n.	0	0	fair	A. Buell.
Tucson, Arizona	27.52	699.0	29.86	758.4	71	21.7	90	se.	2	0.9		0	3 ks			0.25	6.3	clear	J. L. Whiteside.
Umatilla, Oregon	29.81	757.2	30.17	766.3	51	10.6	59	se.	6	2.7		9 cs	0	s.		0	0	cloudy	J. Daly.
Uvalde, Texas	29.06	738.1	30.00	762.0	76	24.4	90	calm	0	0			10 s		s.	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona					70.2	21.2	50	nw.			1	2 k	0	w.		0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.81	757.2	30.05	763.3	74	23.3	90	n.	1	0.4		4 ck	2 s		n.	1.20	30.5	fair	James Kenealy.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.55	623.6	29.89	759.2	56.0	13.3	60	w.	5	2.2		0	2 k		w.	inap.	inap.	clear	T. M. Ambler.
Washington, D. C.	29.89	759.2	30.00	762.0	69.7	20.9	76	nw.	6	2.7		0	0			0	0	clear	F. M. M. Beall.
West Las Animas, Colorado	26.11	663.2	29.86	758.4	61.9	16.6	78	calm	0	0		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.42	747.3	30.00	762.0	64	17.8	68	calm	0	0		0	1 ks			inap.	inap.	clear	B. F. Hough.
Wilmington, N. Carolina	29.94	760.5	29.99	761.7	76	24.4	85	w.	5	2.2		0	9 ks		w.	1.75	44.4	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.72	653.3	29.95	760.7	52	11.1	21	ne.	12	5.4		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.73	729.7	30.00	762.0	66	18.9	68	calm	0	0		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.64	752.8	29.78	756.4	84.2	29.0	42	se.	2	0.9		2 cs	2 ks	se.	se.	0	0	fair	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1			52.5	11.4	73	sw.	3	1.3		0	4 ks		w.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.05	763.3	30.06	763.5	80	26.7	95	e.				1 k	10 ks	e.		0.22	5.6	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.99	761.7	30.02	762.5	75	23.9	95	s.	3	1.3		0	6 ks		s.	0	0	cloudy	J. I. Plume.
Havana, Cuba	29.99	761.7	30.05	763.3	80	26.7	82	se.	1.2	0.5		0	0			0.32	8.1	clear	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	29.99	761.7	30.00	762.0	76.0	24.4	90	n.	1	0.4			10 s			0	0	cloudy	Robert Johnston.
Magua, San Domingo, W. I					76	24.4		calm			0	0	1 ck		se.	0	0		S. M. Pike.
Navassa, W. I.	29.86	758.4	29.94	760.5	82	27.8	78	e.	8	3.6		5 ks	3 k	se.	e.	blank	blank	cloudy	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	80	26.7	87	se.			2	4 c	0	e.		0	0		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.44	747.8	30.00	762.0	77	25.0	89	calm			0	5 ck	5 k	calm	s.	0.03	0.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.							100	sw.			1	5 cs	0	se.		0.75	19.0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.68	753.9	29.73	755.1	50	10.0	100	ne.			3		10 n			1.07	27.2	rain & fog	W. J. Fisher.
St. Thomas, W. I.	29.91	759.7	30.04	763.0	83	28.3	74	e.				1 c	2 k		e.	0.06	1.5	clear	Aug. Wallon.
York Factory, B. A.	30.05	763.3	30.11	764.8	48.0	8.9	92	s.	11	4.5		0	0			0	0	clear	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, N. 33° 29′, W. 35° 40′	30.29	769.4	79.5	26.4	67	ne.			1		3							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.85	758.2	81.5	27.5	80	nnw.			1-2		0					1	wnw.	blue sky.
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.22	767.6	67.8	19.9	84	n.			1		1							blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.80	756.9	81	27.2		nnw.			4		0							blue sky.
H. M. S. Arab, N. 25° 11′, E. 57° 13′	29.60	751.8	88	31.1	84	calm			0		3					2	sse.	misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.20	767.1	65.5	18.6		calm			0		0							blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	30.14	765.5	53	11.7	60	calm			0		4							d. clouds.
H. M. S. Diamond, S. 10° 51′, E. 162° 27′	29.97	761.2	80	26.7	82	ese.			1-2		6	ne.						d. clouds.
H. M. S. Dido, N. 17° 55′, W. 77° 00′	30.01	762.2	81	27.2		calm			0		1	e.						blue sky.
H. M. Dock Yard, Bermuda, W. I.	30.11	764.8	80.5	26.9	82	ssw.			1		4	ssw.						d. clouds.
H. M. S. Fantome, N. 17° 37′ W. 75° 37′	29.95	760.7	83	28.3		e.			4		7	e.				4	e.	d. clouds.
H. M. S. Flying Fish, N. 33° 09′, E. 128° 20′	29.91	759.7	80	26.7	97	nne.			3		4					3	n.	misty.
H. M. S. Gannet, S. 6° 35′, W. 81° 25′	30.07	763.8	62	16.7	91	se.			3		10	nw.						d. clouds.
H. M. S. Griffon, N. 47° 28′, W. 55° 48′	29.84?	757.9?	57.5	14.2	93	ene.			1		10							squally.
H. M. S. Iron Duke, N. 43° 07′, E. 131° 55′	29.93	760.2	72	22.2	95	calm			0		3							d. clouds.
H. M. S. Lark, S. 1° 16′, E. 161° 35′	29.98	761.5	80.3	26.8	89	ese.			5		9					3	ese.	misty.
H. M. S. Liffey, Coquimbo, Chili	30.20	767.1	53	11.7		n.			1									d. clouds.
H. M. S. Magpie, N. 35° 06′, E. 129° 03′	29.96	761.0	78.9	26.1	83	ne.			1-2		0							misty.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.84	757.9	81	27.2	76	nnw.			1		0							blue sky.
H. M. S. Northampton, Halifax, Nova Scotia	29.62	752.3	67	19.4	90	nnw.			3		4	wnw.						d. clouds.
H. M. S. Pegasus, N. 3° 42′, E. 112° 13′	29.85	758.2	82	27.8	83	n.			1		0							blue sky.
H. M. S. Sappho, Honolulu, Sandwich Islands	30.06	763.5	75	23.9	95	ne.			1		4							showery.
H. M. S. Swiftsure, S. 34° 10′ W. 73° 10′	30.15	765.8	53	11.7	100	wnw.			4-6		10					2	nnw.	showery.
H. M. S. Sylvia, Montevideo, Uruguay	29.90	759.4	51	10.6	89	se.			1		10							overcast.
H. M. S. Tenedos, N. 49° 36′ W. 55° 56′	29.38?	746.2?	70?	21.1?	84	sw.			2		8							d. clouds.
H. M. S. Triumph, S. 34° 40′ W. 53° 08′	29.96	761.0	51	10.6	100	ssw.			2		10	calm				8	nne.	raining.
H. M. S. Woodlark, Jask, Persia	29.60	751.8	88.5	31.4	75	sse.			2-3		4					2	s.	dense mist.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.08	764.1	82.4	28.0	85	ne.			1		3					1	se.	d. clouds.
Tamega, Macao, China	29.61	752.2	82.4	28.0	85	sw.			2		10		sse.	3 h'r	3 h'r			raining.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.96	761.0	74	23.3	90	nw.	7	3.1			8		nw.	0.04	1.0			fair.
Navy Yard, Portsmouth, N. H.	29.85	758.2	64	17.8	62	nw.	5	2.2			2		nw.	0	0			clear.
Naval Hospital, Yokohama, Japan*	29.84	757.9	71	21.7	97	calm			0		10		e.	0.36	9.1			light rain.
Adams, Mare Island, Cal			59	15.0	82	sw.			4		0			0	0	sm'h		clear.
Alaska, S. 2° 48′, W. 126° 02′	29.95	760.7	72	22.2	90	ne.			4		0			0	0	sm'h		clear.
Alliance, Portsmouth, N. H.	29.88	758.9	63	17.2	72	nw.			2		2			0	0	sm'h		clear.
Ashuelot, Yokohama, Japan*	29.89	759.2	74	23.3	95	nw.			1		10		nnw.					rainy.
Brooklyn, Rio de Janeiro, Brazil	30.27	768.8	68	20.0	95	n.	3	1.3			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.92	760.0	70	21.1	80	nw.	13	5.8			2			0	0			clear.
Constellation, N. 37° 29′, W. 73° 51′*	29.92	760.0	76	24.4	91	sw.			1		10		sw.			long	sw.	cloudy.
Enterprise, Portsmouth, N. H.	29.83	757.7	63	17.2	72	nw.			2		2		calm					clear.
Essex, Coquimbo, Chili	30.23	767.8	55	12.8	80	nnw.			2		5		nw.			sm'h	nne.	fair.
Franklin, Norfolk, Va.	29.97	761.2	74	23.3	100	nw.	8	3.6			5		w.	0.01	0.3			fair.
Galena, N. 13° 15′, W. 26° 22′	30.04	763.0	82	27.8	87	nne.			3		2		nne.			mod	ne.	clear.
Hartford, N. 40° 58′, W. 32° 48′*	30.11	764.8	74	23.3	86	ese.			2		8		ese.	0	0	sm'h	sw.	cloudy.
Independence, Mare Island, Cal	29.99	761.7	57	13.9	94	sw.			4		0			0	0			clear.
Iroquois, N. 18° 53′, W. 104° 45′	29.96	761.0	80	26.7	91	ne.			3		10		ne.			sm'h	se.	cloudy.
Kearsage, Norfolk, Va.	29.94	760.5	75	23.9	100	nw.			1		5		sw.					fair.
Lackawanna, Callao, Peru*	30.05	763.3	60	15.6	94	nnw.			1		10							cloudy.
Lancaster, Villafranca, France*	29.92	760.0	81	27.2	70	ssw.			2		0			0	0	sm'h	s.	clear.
Marion, S. 34° 54′, W. 56° 13′	29.84	757.9	53	11.7	100	ssw.			1		10			light	light	sm'h		misty.
Michigan, Chicago, Illinois	29.20	741.7	68	20.0	74	ne.			1		10		ne.					cloudy.
Minnesota, New York, N. Y.	29.96	761.0	70	21.1	75	n.	2	0.9			2							clear.
Monocacy, N. 37° 27′, E. 126° 33′	29.92	760.0	82	27.8	83	nnw.			1		5		calm					fair.
New Hampshire, Newport, R. I.	29.89	759.2	69	20.6	65	nne.			3		8		sw.			sm'h		fair.
Nipsic, Villafranca, France*	29.93	760.2	83	28.3	63	ssw.			1		0					sm'h		clear.
Onward, Callao, Peru†	30.17	766.3	59	15.0	94	nnw.			2		10		e.			long	w.	cloudy.
Palos, Kobe, Japan*	29.86	758.4	78	25.6	95	calm			0		8		calm					fair.
Passaic, Washington, D. C.			72	22.2	80	nw.			1		2		nw.					fair.
Pensacola, S. 1° 21′, W. 81° 10′*	29.93	760.2	70	21.1	85	s.			2		10		s.	0	0	long	s.	cloudy.
Portsmouth, Gibraltar, Mediterranean *,	30.01	762.2	71	21.7	85	wnw.			2		0							clear.
Powhatan, Norfolk, Va.	29.94	760.5	75	23.9	90	w.			2		5							fair.
Quinnebaug, Alexandria, Egypt*	29.82	757.4	81	27.2	83	nnw.			3		0					sm'h		hazy.
Ranger, Mare Island, Cal.	29.95	760.7	61	16.1	71	sw.			3		0			0	0			clear.
Richmond, Yokohama, Japan*	29.90	759.4	74	23.3	100	n.			1		10			0.32	8.1			light rain.
Saratoga, N. 36° 35′, W. 2° 50′	29.99	761.7	79	26.1	91	nw.			0-1		2		n.	0	0	mod.	nw.	fair.
St. Louis, League Island, Pa.	30.15	765.8	70	21.1	75	nnw.			2		0			0	0			clear.
Swatara, N. 19° 46′, E. 112° 27′*	29.46	748.3	83	28.3	83	ssw.			5		10		ssw.			mod.	ssw.	cloudy.
Tennessee, Portsmouth, N. H.†	29.89	759.2	70	21.1	80	wnw.	13	5.8			2			inap.	inap.			fair.
Vandalia, Portsmouth, N. H*	29.85	758.2	63	17.2	67	nw.			1		2		n.					fair.
Wabash, Boston, Mass.	29.87	758.7	64	17.8	68	nnw.	12	5.4			8		w.	0	0			cloudy.
Wachusetts, Fort Wrangle, Alaska†	30.21	767.3	49	9.4	100	ene.			1		10		calm			sm'h		rainy.
Wyoming, Port Royal, S. C*	30.01	762.2	77	25.0	86	ssw.	8	3.6			5		w.	0	0			fair.
Yantic, Portsmouth, N. H.	29.86	758.4	63	17.2	72	nw.			2		2							fair.
Merchant Marine.																		
Allan Line.																		
S. S. Grecian, N. 34° 00′ E. 20° 33′*	29.96	761.0	83	28.3		wnw.			2		0			0	0	sm'h		clear.
S. S. Nova Scotian, N. 52° 09′, W. 20° 36′	29.88	758.9	52	11.1		nw.			4		10		nw.			long	wnw.	showery.
S. S. Polynesian, Liverpool, England *.	29.59	751.6	67	19.4		e.			2		5		e.	0	0			fair.
S. S. Waldensian, N. 55° 30′, W. 13° 21′*	29.81	757.2	55	12.8		wsw.			5		8		wsw.	sh'rs	shr's	h'vy	sw.	showery.
American Steamship Company.																		
S. S. Indiana, Philadelphia, Pa.†	29.87	758.7	72	22.2	95	nne.			2		2		ne.					fine.
S. S. Lord Clive, N. 43° 29′ W. 45° 26′*†	30.06	763.5				sw.			4		2		sw.	0	0	sm'h		fine.
S. S. Lord Gough, N 43° 01′ W. 61° 03′	29.91	759.7	70	21.1		ssw.			6		10		sw.	4 h'r	4 h'r	mod.	sw.	hazy.
S. S. Ohio, N. 39° 30′, W. 65° 26′†	29.80	756.9	75	23.9	100	ssw.			3		9		sw.			mod.	s.	showery.
Anchor Line.																		
S. S. Alexandria, Denia, Spain	30.05	763.3	81.5	27.5		se.			4		0			0	0			clear.
S. S. Bolivia, New York, N. Y.†	29.49	749.0	69	20.6		n.			1		0			0	0			clear.
S. S. Dorian, New York, N. Y.*	29.78	756.4																
Atlas Line.																		
S. S. Ailsa, N. 27° 19′, W. 74° 16′†	30.12	765.0	84	28.9	83	se.			2		1		ene.	0	0	mod.	ene.	fine.
S. S. Alene, Savanilla, U. S. C.†	29.90	759.4																
S. S. Alpin, Jacmel, Hayti, W. I.	29.99	761.7				n.			1		1		ene.	½ h'r	½ h'r		e.	
S. S. Antillas, Jeremie, W. I.†	29.85	758.2	88	31.1														
British Meteorological Office.																		
Auckland, S. 43° 23′, E. 73° 53′	29.50	749.3	52	11.1	100	wsw.			6		10							misty.
S. Baroda, N. 12° 01′, W. 25° 14′	30.03	762.7	79.5	26.4	82	n.			4		8							d clouds.
S. S. Basil, S. 0° 21′, W. 36° 29′	30.05	763.3	78.5	25.8	89	se.			4		3							d. clouds.
S. S. Cipero, N. 27° 45′, W. 46° 26′	30.24	768.1	82.0	27.8	79	ene.			3		5							d. clouds.
Bk. Commewyne, N. 51° 27′, W. 9° 59′	29.96	761.0	61.6	16.4	88	s.			1		9							misty.
S. S. City of Agra, S. 38° 24′, E. 39° 42′	30.37	771.4	48	8.9	74	ssw.			5		9							d clouds.
S. S. Gordon Castle, N. 47° 14′, W. 33° 56′	30.19	766.8	65.2	18.4	68	sw.			3-4		6							d. clouds.
S. S. Humboldt, S. 34° 37′, W. 58° 04′	29.92	760.0	52.0	11.1	93	calm			0		10							overcast.
Bkt. May Hulse, N. 45° 24′, W. 27° 53′	30.22	767.6	63	17.2	78	nne.			2		5							d. clouds.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH METEOROLOGICAL.—Continued.																		
S. S. Minho, S. 25° 32′, W. 44° 58′	30.23	767.8	69.9	21.1	87	ene.			4		6							d. clouds.
S. Oamarn, N. 20° 00′, W. 29° 30′	30.12	765.0	75.8	24.3	81	nne.			4		3							d. clouds.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, Mazatlan, Mexico*†	29.90	759.4	87	30.6	72	calm			0		8		s.			mod.	s.	fair.
CUNARD LINE.																		
S. S. Bothnia, N. 51° 22′, W. 9° 36′	30.01	762.2	65	18.3	90	sse.			3		7		sse.	0	0	sm'h		cloudy.
S. S. Marathon, Off Alexandria, Egypt	29.83	757.7	83	28.3		nw.			2		0			0	0	sm'h	nw.	clear.
DONALDSON LINE.																		
S. S. Colina, Glasgow, Scotland.†	30.10	764.5				ssw.			2		1		ssw.					clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Cimbria, N. 40° 50′, W. 68° 10′	29.76	755.9	66	18.9		wsw.			2		4		wsw.	0	0	mod.	wsw.	foggy.
S. S. Frisia, N. 40° 08′, W. 69° 50′*	29.77	759.1	73	22.8		n.			4		3?		nnw.	0	0	mod.	nw.	cloudy?
S. S. Gellert, N. 43° 35′, W. 45° 06′	30.08	764.0	75	23.9		sw.			5		5		w.	0	0	mod.	w.	fair.
S. S. Herder, New York, N. Y.*	29.77	756.1	80	26.7		nne.			3		3		nnw.	0	0			fair.
S. S. Silesia, N. 55° 41′, W. 30° 11′	30.00	762.0	52.1	11.2		nw.			3		5?		wnw.	0	0	5	nnw.	cloudy.?
S. S. Vandalia, N. 44° 58′ W. 42° 19′*	30.08	764.0	68.0	20.0		ssw.			4		10		ssw.	0	0	mod.	ssw.	cloudy.
S. S. Westphalia, N. 50° 48′ W. 18° 45′	29.92	760.0	65	18.3	78	sw.			5		5		sw.	5 h'r	5 h'r	r'gh	sw.	fair.
INMAN LINE.																		
S. S. City of Berlin, N. 42° —′, W. 63° —′	29.79	756.7				wsw.			2		10		w.	4 h'r	4 h'r	mod.	sw.	
LAMPERT AND HOLT'S LINE.																		
S. S. Archimedes, N. 49° 15′ W. 18° 22′†	30.05	763.3				w.			4		2		wnw.	1 h'r	1 h'r	mod.	w.	clear.
S. S. Hevelius, S. 23° 00′, W. 43° 00′.*†	30.43	772.9	70	21.1		e.			4		4		e.	0	0			clear.
MALLORY LINE.																		
S. S. City of San Antonio, N. 25° 29′, W. 77° 34′*†	30.21	767.3				e.			2		2		e.	0	0			fair.
S. S. Colorado, New York, N. Y.†	29.91	759.7	70	21.1		nw.			1		1		nw.	0	0			clear.
S. S. San Marcos, N. 24° 00′, W. 82° 10′	29.86	758.4				e.												fine.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Marseilles, France*†	30.03	762.7	74	23.3	90	nw.			3		0			0	0			clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 45° 18′, W. 55° 18′†	29.82	757.4	70	21.1	95	sw.			6		fg			6 h'r	6 h'r	short		foggy.
S. S. Hermod, N. 42° 09′ W. 44° 35′†	30.24	768.1	80.6	27		sw.			3		1		sw.	0	0	mod.	sw.	fair.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, S. 5° —, W. 35° —	29.98	761.5				sse.			6		7		se.	3 h'r	3 h'r	h'vy	se.	cloudy.
MORGAN LINE.																		
S. S. Chalmette, N. 25° 48′, W. 79° 50′†	30.08	764.0	83	28.3		ene.			1		6		nw.	0	0	sm'h	s.	cloudy
NATIONAL LINE.																		
S. S. Canada, N. 41° 20′, W. 47° 02′†	30.13	765.3				sw.			6		1		sw.			mod.	sw.	hazy.
S. S. Denmark, London, England	30.00	762.0	70	21.1		sw.			2		10		sw.	0	0			dull.
S. S. England, N. 44° 46′, W. 57° 20′	29.95	760.7				sw.			6		8?		sw.	0	0	mod.	sw.	clear ?
S. S. Erin, N. 51° 15′ W. 15° 03′	29.82	757.4	57	13.9	?	sw.			6		5		w.	0	0	long	w.	showery.
S. S. Helvetia, N. 44° 51′, W. 40° 31′	30.04	763.0	73	22.8		ssw.			2		2		nnw.	0	0	slight	w.	fine.
S. S. The Queen, N. 48° 17′, W. 20° 24′	30.03	762.7	59	15.0		wnw.			3		2		wnw.	0	0	mod.	wnw.	clear.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 29° 00′, W. 74° 00†	30.08	764.0	83	28.3		sse.			3		8		ese.	0	0	sm'h		fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 37° 55′ W. 74° 20′†	29.91	760.5	75	23.9	90	wsw.			3		5		sw.			small	sw.	rainy.
S. S. City of Puebla, Havana, Cuba, W. I.†	29.99	761.7	79	26.1		calm			0		2							fair.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N 49° 46′, W. 27° 38′*	30.17	766.3	65	18.3		nw.			2								w.	fair.
S. S. Belize, Kingston, Jamaica, W. I.	30.02	762.5	80	26.7		calm			0									clear.
S. S. Lone Star, N. 26° 04′, W. 80° 03′	30.10	764.5	82	27.8		ese.			1							sm'h		fair.
NORTH GERMAN LLOYD																		
S. S Elbe, N. 42° 59′, W. 59° 05′	29.65	753.1	68.9	20.5	100	sw.			4–5		10			8 h'r	8 h'r	r'gh	sw.	covered.
S. S. Gen. Werder, N. 50° 28′, W. 19° 12′	29.99	761.7				w.			4		5		w.	2 h'r	2 h'r	r'gh	wsw.	cloudy.
S. S. Graf Bismarck, S. 0° 50′, W. 29° 28′	30.09	764.3	77.0	25.0		ese.			4		2		se.	0	0	mod.	se.	clear.
S. S. Habsburg, N. 50° 07′, W. 3° 49′	30.03	762.7	63.5	17.5		w.			2		5		w.	5 h'r	5 h'r	sm'h		cloudy.
S. S. Hohenstaufen, N. 48° 47′, W. 22° 14′	30.09	764.3	66.2	19.0		nnw.			5		7		nnw.	0	0	5	w.n.	cloudy.
S. S. Leipzig, N. 45° 22′, W. 36° 49′	30.14	765.5	68.0	20.0	100	se.			4		5		ese.	1 h'r	1 h'r	mod.	wnw.	fair.
S. S. Main, N. 44° 33′, W. 58° 55′	29.65	753.1				sw.			5		8		sw.			long	sw.	foggy.
S. S. Ohio, N. 36° 56′, W. 75° 31′	29.97	761.2				w.			1		3		w.	4 h'r	4 h'r	sm'h	w.	fair.
S. S. Salier, N. 47° 05′, W. 38° 21′	30.09	764.3	57.2	14.0		ssw.			5		8		ssw.	0	0	mod.	ssw.	cloudy.
S. S. Strassburg, N. 50° 18′, W. 2° 40′	29.99	761.7	75.5	24.2	84	w.			1–2		6		w.	0	0	sm'h	w.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 46° 39′, W. 151° 10′†	30.36	771.1	58	14.4	100	wsw.			5		8		w.	rain	rain	sm'h		hazy
S. S. Belgic, N. 24° 00′, E. 118° 24′†	29.90	759.4	83	28.3	83	ssw.			5		8		sw.	14 h'r	14 h'r	con.	se.sw	thund'r st'm.
S. S. Coptic, N. 46° 46′, E. 178° 22′	30.15	765.8	51.5	10.8	96	var.			1		10		n.	0	0			overcast.
S. S. Gaelic, Hong Kong, China†	29.77	759.1	84	28.9	91	ssw.			1		0							fine.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga.†	30.10	764.5				sw.			1		4		sw.	0	0			clear.
S. S. Seminole, Boston, Mass †	29.87	758.7	70	21.1	90	nw.			4		8		nnw.	0	0			cloudy.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 43° 34′, W. 124° 45′ †	30.13	765.3	59	15.0	85	nnw.			2		2					mod.	nw.	hazy.
S. S. Oregon, Portland, Oregon.†	30.15	765.8	53	11.7	93	calm			0		2							foggy
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 32° 40′ W. 117° 15′†	29.89	759.2	68	20.0	84	ssw.			1		10		se.			sm'h		cloudy.
S. S. City of Chester, San Francisco, Cal			54	12.2	93	calm			0		8							cloudy.
S. S. Idaho, San Francisco, Calf	29.92	760.0	55	12.8	87	w.			1		0			0	0	sm'h		clear.
S. S. State of California, San Francisco, Calf	29.93	760.2	51	10.6	93	calm			0		0							clear.
S. S. Victoria, Portland, Oregon†	30.10	764.5	55	12.8	87	calm			0		2			0	0	sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 22° 41′ W. 174° 15′	30.07	763.8	64	17.8	83	sw.			5		10		sw.	0	0	long	s.	hazy.
S. S. City of New York, Sydney, N. S. W.†	30.14	765.5	57	13.9	75	s.			2		8		s.	3 h'r	3 h'r			cloudy.
S. S. City of Pekin, N. 36° 51′, E. 143° 34′†	30.15	765.8	74	23.3	86	w.			1		10		w.	0	0	sm'h		cloudy.
S. S. City of Tokio, N. 35° 26′, E. 139° 39′†	30.06	763.5	73	22.8	85	n.			4		10		ne.	4 h'r	4 h'r			rainy.
S. S. Colima, N. 12° 25′, W. 88° 19′†	29.95	760.7	78	25.6	82	e.			3		10		se.	1.90	48.3	mod.	sse.	cloudy
S. S. Colon, N. 10° 32′, W. 78° 52′†	29.99	761.7	80	26.7		n.			1		10		nne.	0	0	small	e.	overcast.
S. S. Costa Rica, N. 22° 15′ W. 107° 10′*	29.92	760.0	79	26.1	86	ne.			4		10		ne.	4 h'r	4 h'r	sm'h		hazy.
S. S. Grenada, Acapulco, Mexico†	29.97	761.2	80	26.7	82	calm			0		5?		nw.	0	0			clear.?
S. S. Zelandia, S. 29° 58′, W. 177° 37′	30.34	770.6	58	14.4	82	sw.			6		5		sw.			r'gh	sw.	squally.
QUEBEC S. S. COMPANY.																		
S. S. Muriel, St. Lucia, W. I	30.04	763.0	82	27.8		calm			0		10			0	0	sm'h		overcast.
RED D LINE.																		
S. S. Caracas, N. 34° 03′ W. 09° 55′*†	30.10	764.5				ssw.			6		2		ssw.	0	0	r'gh	wsw.	clear.
S. S. Valencia, Curacou, W. I.*†	30.15	765.8	86	30.0	76	ese.			4		3		ne.	0	0	sm'h	e.	fine.
RED STAR LINE.																		
S. S. Belgenland, Philadelphia, Pa.†	30.14	765.5	74	23.3	86	calm			0		9			0	0			
S. S. Pennland, New York, N. Y.	29.97	761.2				n.			5		10		se.	0	0			fine.
S. S. Rhynland, N. 47° 00′ W. 34° 00′	30.25	768.3	66	18.9	64	sse.			6		4		s.	0	0	long	s.	fair.
S. S. Switzerland, N. 45° 55′ W. 33° 27′†	30.26	768.6				ese.			2		10		ese.	0	0	long	nw.	cloudy.
S. S. Vaderland, N. 50° 52′, E. 0° 45′	29.85	758.2	70	21.1	85	w.			1		fg.			0	0	sm'h		foggy.
S. S. Waesland, N. 44° 52′, W. 41° 59′	30.00	763.5	75	23.9	86	sw.			5		8		sw.	0	0	mod.	sw.	cloudy.
ROTTERDAM LINE.																		
S. S. Edam, Amsterdam, Holland	29.81	757.2	69.5	20.8	95	se.			7		6		s.	0	0			fair.
S. S. Schiedam, N. 40° 47′, W. 05° 42′	29.80	750.9	75.4	24.1	83	calm			0		10			3 h'r	3 h'r	r'gh	w.	hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, Kingston, Jamaica	30.01	762.2	80	26.7		calm			0		0		calm	1 h'r	1 h'r			fair.
STATE LINE.																		
S. S. State of Florida, N. 49° 39′, W. 29° 02′	30.12	765.0	58	14.4		nne.			3		2			0	0	sli't	ne.	clear.
S. S. State of Georgia, N. 40° 19′, W. 68° 43′†	29.81	757.2	68	20.0		nw.			1		fg.			0	0	sli't	sw.	dense fog.
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y.†	30.24	768.1	65.3	18.5		ene.			2		2		ene.	0	0			clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 42° 28′, W. 41° 10′	30.20	767.1	79	26.1					3		2			0	0	3	nw.	fine.
WHITE STAR LINE.																		
S. S. Adriatic, N. 40° 39′, W. 74° 00′*†	30.07	763.8	68	20.0	92	nw.			4		5		w.	0	0	gentle	s.	blue sky
S. S. Baltic, N. 46° 34′ W. 49° 09′	29.85	758.2	59	15.0	94	sw.			5		10		sw.	6 h'r	6 h'r	3	w.	foggy.
S. S. Celtic, N. 47° 04′, W 37° 05′†	30.17	766.3	66	18.9	89	se.			4		10		s.	0	0	sm'h		overcast.
S. S. Republic, Liverpool, Eng†	30.14	765.5	69	20.6	90	n.			3		6		w.	0	0			d. clouds.
WILSON LINE.																		
S. S. Otranto, N. 50° 24′ W. 20° 24′†	30.19	766.8	57	13.9		w.			4		8		w.			long	w.	cloudy.
WINSOR LINE.																		
S. S. Aries, N. 39° 15′, W. 74° 20′†*	29.90	759.4				nnw.			10		5		nw.	0	0	long	s.	fair.
S. S. Catherine Whiting, Providence, R. I.†	29.96	761.0	76	24.4		n.			1				sw.	0	0			
MISCELLANEOUS.																		
Bk. Adelaide, N. 28° 37′, W. 51° 49′*†	30.32	770.1	85	29.4		ese.			3		2		ese.	0	0	sm'h	ese.	showery.
Bk. Alpha, N. 54° 08′ E. 10° 30′†	29.95	760.7	68	20.0		nnw.			8		8		n.	0	0	sm'h		cloudy.
Schr. Anna A. Holton, N. 34° 25′, W. 70° 13′†	30.07	763.8	83	28.3		sw.			6		3		ssw.	0	0	r'gh	ssw.	clear.
Bk. Anna Thormann, S. 23° 58′ E. 107° 40′	30.14	765.5	66.0	18.9	73	w.			1		4 k		w.	0	0	long	sw.	fair.
S. S. Antonio Lopez, N. 40° 12′, W. 25° 00′*	30.21	767.3	72	22.2	90	wsw.			3		6			1 h'r	1 h'r	mod		fair.
Bk. Aureola, N. 12° 58′, W. 45° 41′*†	30.15	765.8	82	27.8		ne.			1		0			0	0	sm'h		clear.
Bk. B. F. Watson, N. 14° 03′ W. 35° 19′†	30.05	763.3	82	27.8		e.			3		2			4 h'r	4 h'r	sm'h	se.	fine.
Bk. Bergenseren, N. 41° 40′, W. 26° 12′†	30.19	766.8				e.			2		10		ne.	rain	rain	2	w.	raining.
Bk. Bremen, N. 48° 09′, W. 33° 16′*†	30.22	767.6				sse.			6		6		sse.	0	0	cross		covered.
S. S. Burswell, N. 51° 41′, W. 5° 58′*†	29.89	759.2	71	21.7		calm			0		9		nw.	5 h'r	5 h'r	high	wsw.	overcast.
Bk. Cato, Malmö, Sweden*†	30.10	764.5				n.			3									cloudy.
Bk. Celestina, N. 17° 58′, W. 28° 15′*†	30.05	763.3				ne.			2		8			0	0	long	nnw.	covered.
S Dora, S. 17° 10′, W. 32° 40′†	30.24	768.1	77.0	25.0		se.			5		5		e.	0	0	r'gh	s.	cloudy.
Schr. Edith R. Seward, N. 38° 26′, W. 76° 18′*†	30.01	762.2	74	23.3		n.			1		4		nw.	0	0			fair.
S. E. J. Spicer, N. 42° 16′, W. 48° 37′*	30.08	764.0	75	23.9		ssw.			5		0			0	0	sm'h		clear.
S. Enoch Train, North Sea†	30.25	768.3				s.			1		0			0	0	sm'h		clear.
Bk. Essex, N. 12° 00′ E. 46° 29′*†	29.70	754.4	92	33.3		w.			1		0			0	0	sm'h	w.	clear.
Bk. Franklin, N. 57° 50′, E. 10° 30′*†	30.23	767.8				w.			2		0			0	0	sm'h		fair.
Bk. Freya, N. 39° 50′, W. 54° 46′			81	27.2		s.			5		5		sw.	1 h'r	1 h'r	mod.	sw.	squally.
S. Glendon, N. 34° 28′ W. 47° 36′†	30.27	768.8	86	30.0		calm			0		10			0	0	sm'h		fair.
Bk. Godefroy, N. 24° 59′ W. 22° 43′	30.06	763.5	77.5	25.3	71	nne.			4		5		nne.	sh'rs	sh'rs	mod.	ne.	fair.
S. Grecian, N. 10° 00′, E. 111° 45′*†	29.85	758.2	85	29.4		sw.			5		2	e.	sw.	0	0	mod.	w.	clear.
Bk. Gronsvaer, N. 14° 50′, W. 33° 00′†	30.04	763.0				ene.			4		5		e.	5 h'r	5 h'r	mod.	e.	fair.
Bk. Hattie G. McFarland, Bath, Maine*†	29.83	757.7	60	15.6		n.			3		3		nw.	0	0			clear.
Schr. Hattie Weston, N. 30° 23′, W. 72° 22′*†	30.24	768.1	83	28.3		sse.			1		2		s.	½ h'r	½ h'r	sm'h	w.	fair.
Bk. Heinrich & Tonio, N. 49° 26′, W. 6° 35′*†	30.22	767.6	62	16.7		var.			3		10		se.	4 h'r	4 h'r	light	nw.	rainy.
Schr. Henry Denison, N. 30° 32′, W. 70° 20′†	30.08	764.0				sse.			3		3		sw.			high	sw.	fair.
S. Ivy, S. 51° 25′, W. 85° 38′†	29.41	747.0	36	2.2		wsw.			8		5		wsw.	hail	hail	high	wsw.	hailing.
S. Ismir, N. 6° 08′, E. 107° 50′†	29.92	760.0				sw.			1		8		sw.	0	0	sm'h		overcast.
Schr. Jennie N. Huddell, Lynn, Mass†	29.87	758.7	63	17.2	83	nnw.			2		8		nw.	0	0			fair.
Bg. John Wesley, Guantanamo W. I.†	29.85	758.2				n.			1		2			0	0			clear.
Bk. Joseph A. Ropes, S. 35° 31′, E. 35° 26′*†	30.51	774.9	58	14.4	69	sse.			5		7		sse.	0	0	mod.	sw.	cloudy.
Bkt. Josephine, Havana, Cuba, W. I.†	30.03	762.7	82	27.8	78	calm			0		2			2 h'r	2 h'r			fair.
S. S. Lamperts, N. 35° 51′, E. 15° 30′*	29.96	761.0	76.0	24.4	86	n.			2		0							blue sky.
Light House Tender, Laurel, Key West, Fla†	30.09	764.3	84	28.9		ene.			1		9		e.	2 h'r	2 h'r			cloudy.
S. S. Madrid, N. 57° 05′, W. 12° 24′*†	29.83	757.7	56	13.3		s.			4		5		wsw.	3 h'r	3 h'r	short	wsw.	showery.
Schr Maggie Abbott, Port au Prince, Hayti, W. I†	29.99	761.7									2							
S. S. Malabar, N. 38° 08′, W. 135° 20′†	30.27	768.8				n.			2		2			0	0	sm'h		¼ covered
S. Minnie N. Gerow, N. 36° 00′, W. 5° 55′*†	29.90	759.4				ese.			6		0					r'gh	e.	hazy.
S. M. P. Grace, S. 19° 41′, W. 103° 34′*	30.20	767.1	67	19.4		ene.			2				ne.	0	0	sm'h	sw.	
Bk. National Eagle, N. 44° 41′, W. 16° 27′†	30.11	764.8				sw.			2		8		w.	0	0	mod.	nw.	drizzling.
S. S. Nebo, N. 36° 34′, W. 21° 24′*†	30.05	763.3				n.			5		8		nne.	0	0	long	ne.	cloudy.
S. Oracle, N. 35° 40′, W. 51° 16′*	30.21	767.3	81	27.2	91	ssw.					2 k		sw.			mod.	ssw.	clear.
S. Orealla, N. 11° 59′, W. 32° 56′*	29.94	760.5				nnw.			2		4		nnw.	0	0	mod.	s.	clear.
Bk. Rosebud, S. 29° 29′ E. 60° 00*†	30.20	767.1	68	20.0	79	nne.			6		0			0	0	short	ne.	
S. St. Francis, N. 35° 11′, W. 40° 08′†	30.31	769.9	81	27.2		calm			0		3			0.06	1.5	cross	ese.	fine.
Schr. S. B. Hubbard, Gardiner, Maine†	29.96	761.0	57	13.9		nw.			4		0			0	0			fine.
Bk. Sunbeam, N. 39° 58′ W. 25° 10′†	30.30	769.6	76	24.4	90	wsw.			5		8		w.	0	0	mod.	nw.	cloudy.
S. S. Sunbeam, Rotterdam, Holland	30.03	762.7	68	20.0	79	sw.			1		6		w.					d. clouds.
S. Sovereign of the Sea, S. 52° 21′, W. 63° 41′*†	28.46	722.9	40	4.4	91	wnw.			7		5		wnw.	0	0	sm'h	nnw.	cloudy.
U.S.F.C.S.S. Fish Hawk, Wood's Holl, Mass†	30.05	763.3	68	20.0	79	n.			5		5		n.	0	0			fair.
Schr. Victor Ping, N. 18° 30′, W. 67° 10′*†	30.07	763.8				ese.			6		8		ese.			mod.	ese.	rainy.
Bk. Vincenzo Accame N. 40° 04′, W. 61° 45′†	30.12	765.0	82.4	28.		wsw.			7									
Schr Viola Reppard, Savanah, Ga†	30.02	762.5	83	28.3		calm			0					6 h'r	6 h'r			cloudy.
Bk. Wandering Jew, N. 39° 39′, W. 72° 05′†	29.87	758.7	75	23.9		nne.			5		3		nnw.	0	0	long	sw.	clear.
Bg. Wauburn, N. 21° 40′ W. 74° 00′*†	30.00	762.0				e.			5		3		e.			sm'h	e.	½ covered.
Bk. Warden Law, N. 54° 14′, W. 12° 20′*	29.99	761.7				wsw.			4		4		wsw.	0	0	mod.	w.	fair.
S. Wm. Woodbury, N. 56° 43′, E. 2° 44′*	29.96	761.0	66	18.9	73	sw.			4		6		sw.			sm'h	sw.	clear.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 19, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.03	762.8	81.7	27.6	83	se.			1		3			0	0	pretty fair	Bouvier.
Algiers			30.06	763.5	79.2	26.2	78	s.			2		0			0	0	clear	Thève.
La Calle			30.06	763.5	87.4	30.8	64	nne.			1		1			0	0	very fair	Fonfrède.
Tunis			30.06	763.4															Jacques.
Saida			30.09	764.2															Perès.
Tebessa			30.10	764.4	85.6	29.8	26	n.			1		0			0	0	clear	Rigaud.
Gertville					89.6	32.0	8	sw.			5		2			inap.	inap.	fair	Lonchamp.
Laghouat			30.10	764.5	95.7	35.4	31	e.			1		4			0	0	cloudy	Abraham.
Biskra			30.10	764.5	95.4	35.2	33	nw.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.12	765.0	30.21	767.3	49.0	9.4	92	sw.	4	1.8			1			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.47	748.5	30.00	762.0	71.6	22.0	61	sw.			1		3			0.016	0.4		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.06	738.2	29.82	757.4	58.3	14.6	96	w.	2.5	1.1			10			0.394	10.0		Dr. Wierzbiski.
Eperies	28.97	735.8	29.83	757.7	61.2	16.2	79	nw.			2		10kn;s		s.	1.028	26.1		Julius Mikolik.
Gratz	28.78	731.0	29.99	761.7	69.8	21.0	61	nw.			4		4			0	0		Andreas Rospini.
Hermannstadt	28.46	722.8	29.85	758.2	64.2	17.9	62	nw.			3		7			0.039	1.0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.75	730.2	30.06	763.6	63.5	17.5	68	nw.			1		10			0	0	covered	The Staff.
Lemberg	28.82	732.0	29.78	756.4	63.5	17.5	83	ne.			2		10			0.630	16.0		Dr. T. Stanecki.
Pola	29.96	760.9	30.06	763 6	76.1	24.5	58	wsw.			2		1			0	0		I. R. Hydrographic Office.
Szathmar	29.38	746.3	29.83	757.7	66.8	16.0	85	sw.			3		6			0.465	11.8		Joseph Midlinszky, S. J.
Szegedin	29.05	753.1	29.92	760.0	64.8	18.2	73	w.			3		8			0.157	4.0		Karl Stancel.
Trieste	29.97	761.3	30.08	763.9	75.9	24.4	52	calm			0		0			0	0		Royal Academy.
Vienna	29.33	744.9	30.04	762.9	58.6	14.8	93	w.			2		10			0.287	7.3	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.75	755.6	29.84	757.9	62.7	17.1	70	sse.	9	4.0			6			0.030	0.8	d. clouds	W. Boswell
Armagh, Observatory	29.71	754.6	29.95	760.7	64.0	17.8	55	sw.	7	3.1			5					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.92	760.0	60.2	15.7	82	w.	20	8.9			8					overcast	John Hartnup.
Bolton, Sharples	29.38	746.2	29.90	759.4	61.8	16.6	70	w.	9	4.0			6					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.50	749.3	29.89	759.2	60.6	15.9	75	nw.			1		5			0.02	0.5	d. clouds	McLandsborough & Preston
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	85.0	29.4	68	ne.			2		2					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.90	759.4	66.4	19.1	87	w.			0.4		9					overcast	John McLaren.
Chatham, School M. E.	29.82	757.4	29.94	760.5	67.9	19.9	79	sw.			1		9			blank	blank	gloomy	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.84	757.9	30.07	763.8	64.0	17.8	65	wnw.			3		7					overcast	The Staff.
Fort Napier, Natal	28.01	711.4	30.23	767.8	65.0	18.3	29	n.			1		0					blue sky	Corpl. F. Milner, A. H. C.
Free Town, Sierra Leone	29.72	754.9	29.95	760.7	77.0	25.0	90	sw.			2		8						Sergt. John Robinson.
Gibraltar, Mediterranean	30.00	762 0	30.06	763.5	80.0	26.7	82	e.			2		2					blue sky	Corpl. F. Norris, A. H. C
Glasgow, Observatory	29.67	753.6	29.87	758.7	63.1	17.3	59	w.			4		5					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.76	755.9	29.92	760.0	66.1	18.9	83	wsw.			1		10					drizzling	The Staff.
Guernsey	29.78	756.4	30.07	763.8	68	20.0	69	wsw.			1		10					overcast	A. Collenette, F. M. S.
Kew, Observatory	29.90	759.4	29.93	760.2	67.6	19.8	74	e.	11	4.9			9					drizzling	The Staff.
Leicester, Museum	29.67	753.6	29.92	760.0	58.0	14.4	90	nw.			1		10					raining	J. C. Smith.
Malta, Mediterranean	29.92	760.0	29.99	761.7	79.2	26.2	86	n.			2		3					blue sky	W. D. Ballau.
Nassau, Bahamas	30.06	763.5	30.11	764.8	85.2	29.6	77	se.			2		5					d clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.43	747.5	29.95	760.7	59.0	15.0	87	nw.			3		8					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.72	754.9	29.95	760.7	58.9	14.9	90	wnw.			3		10					overcast	The Staff.
Plymouth	29.96	761.0	30.03	762.7	67.9	19.9	64	nw.			2		7					d clouds	John Merrifield.
Sandwick Manse, Orkneys			29.90	759.4	61.9	16.6	68						2					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.72	754.9	29.79	756.7	83.0	28.3	59	ne.			2		4					d. clouds	W. H. Lyne.
Sheffield	29.66	753.4	29.93	760.2	64.9	18.3	75	nw.			1		10			0.05	1.3	overcast	W. F. Cooper.
Silloth Rectory	29.80	758.4	29.89	759.2	63.0	17.3	77	wsw.			2		6			0.015	0.4	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.94	760.5	62.0	16.7	77	wsw.	6	2.7			10					d. clouds	I. New.
Stratfield Turgiss					63.3	17.4	86	w.			1		9					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.06	763.5	30.07	763.8	70	21.1	61	nw.			2		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.05	763.3	30.08	764.0	59.9	15.5	73	w.	18	8.0			6					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.81	757.2	29.85	758.2	58	14.4	82	w.	6	2.7			8 ks		w.	0	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.83	757.7	29.89	759.2	52	11.1	86	sw.	6	2.7		5 ck	0	sw.		0	0	fair	G. A. Blair.
Father Point, Quebec*	30.02	762.5	30.05	763 3	47	8.3	93	w.	7	3.1		5 k	5 ks	calm	calm	0	0	clearing	J. McWilliams.
Fort Garry, Manitoba*	29.15	740.4	29.97	761.2	53	11.7	86	w.	15	6.7		0	0			0	0	clear	James Stewart.
Halifax, N. S*	29.78	756.4	29.90	759.4	62	16.7	72	sw.	2	0.9		0	0			0	0	clear	A. Allison.
Kingston, Ontario*	29.84	757.9	30.18	766.6	54	12.2	83	n.	2	0.9		0	0			0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.91	759.7	30.11	764.8	54	12.2	72	w.	8	3.6		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.52	749.8	30.22	767.6	49	9.4	93	calm	0	0		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.50	749.3	30.19	766.8	53	11.7	93	ne.	6	2.7		5 k	0	nw.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.55	750.6	30.21	767.3	50	10.0	96	ne.	2	0.9		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.70	754.4	30.02	762.5	52	11.1	86	w.			5	2 k	2 s	w.	nw.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.74	755.4	30.20	767.1	48	8.9	93	nw.	3	1.3		0	fg			0	0	light fog	W. H. McIntyre.
Saugeen, Ontario*	29.51	749.5	30.24	768.1	43	6.1	93	se.	4	1.8		0	0			0	0	clear	
St. Andrews, N. B	29.92	760.0	29.97	761.2	53	11.7	79	nw.	8	3.6		0	0			0	0	clear	
Sydney, C. B*	29.78	756.4	29.83	757.7	64	17.8	73	nw.	2	0.9		5 k	2 k	sw.	w.	0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.84	757.9	30.22	767.6	54	12.2	69	ne.	6	2.7		0	2 s			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.92	760.0	29.99	761.7	53	11.7	86	nw.	8	3.6		0	0			0	0	clear	Lt. F. E. Wilmot, R. N.
Sub-series.																			
Mount Forest	28.81	731.8	30.23	767.8	44.0	6.7	100	nw.			1	2 c	0	nw.		0	0	clear	Wm. Wylie.
St. Johns, Newfoundland	29.79?	750.7?	30.04?	763.0?	64	17.8	88	sw.				10 k	10 s			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.16	766.1	30.18	766.6	65	18.3	83	ne.	18.6	8.3		0	2 k			0	0	clear	C. Hansen.
Cape Town, C. G. H. Obs'y	30.06	763.5	30.09	764.3	82.5	28.1	33	nw.	7	3.1		2	6			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent	From.	Miles p. hr.	Mtrs. p sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.85	758.3	29.88	759.0	75.7	24.3	94	e.	3.8	1.7			0			0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.93	760.3	29.98	761.5	71.2	21.8	66	ne.	7	3			0						Oversergent Fischer.
Fanöe	29.98	761.6	30.00	762.1	67.5	19.7	77	w.			2		1	w.					Overloerer Lauridsen
Godthaab, Greenland	29.59	751.6	29.63	752.7	42.4	5.8	76	ne.			4		0			0	0		S. Kleinschmidt.
Ivigtut	29.60	751.8	29.62	752.3	38.7	3.7		nw.			2		10					foggy	
Stykkisholm, Iceland	29.55	750.5	29.59	751.6	43.7	6.5	86	w.			4		10					raining	A. O. Thorlacius.
Thorshavn	29.73	755.1	29.76	756.0	57.9	14.4	82	ssw.	4	2			3						Overloerer Bergh.
Vestervig	29.92	760.0	30.01	762.3	65.8	18.8	77	w.			2		1						Loearer Oesterbol.
French.																			
Agen, Normal School	29.51	749.5	30.13	765.4	80.2	26.8	56	ne.			1	0	0			0	0	clear	M. Labroue, Director.
Alençon, Normal School	29.55	750.6	30.10	764.6	69.8	21	87	sw.			1		n	w.	w.	0	0		M. Nicot, Director.
Arras, Engineer School	29.78	756.3	30.03	762.7	68.9	20.5	80	sw.			6		kn			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.96	760.9	30.04	762.9	84.2	29.0	40	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.55	750.5	30.08	764.1	73.6	23.1	58	sw.			1		10			0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.78	750.4	30.04	762.9	74.7	23.7	69	s.			2		8		wsw.	0.063	1.6	very cloudy	M. Frère Eugène Maris.
Besançon, Normal School	29.16	740.7	30.02	762.6	72.7	22.6	72	sw.			1		1		nw.	0	0	clear	M. Gobin, Director.
Bordeaux, Observatory	29.82	757.4	30.07	763.8	79.7	26.5	54	ene			1		8			0	0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.53	750.1	30.07	763.8	72.5	22.5	71	sw.							sw.	0.020	0.5		M. Malet, Director.
Brest, Naval Observatory	29.85	758.2	30.10	764.4	68.4	20.2	80	wnw.			1		9		wnw.	0.031	0.8		M. de Kermaree, Dir.
Caen, Normal School	29.95	760.6	30.02	762.6	63.7	17.6	85	w.			1		5		w.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.72	754.9	30.03	762.8	74.1	23.4	86	sw.			1		5			0.165	4.2	cloudy	M. Jadot, Director.
Charleville, Normal School	29.52	749.9	30.02	762.6	72.3	22.4	63	s.			1		10			0	0	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.75	730.3	30.06	763.5	73.4	23	63	n.			1	0	8 k			0.028	0.7	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.28	743.6	30.11	764.7	77.0	25.0	46	nw.			1		8		sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.26	717.8	30.06	763.4	71.2	21.8	80	wsw.			1		kn	wsw.	wsw.	0	0		Dr. Coulet, Director.
Gap, Normal School	27.47?	697.6?	29.87?	758.6?	78.4	25.8	31	s.			2	0	2 k		s.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.94	735.1	30.00	762.1	85.2	30.1	48	sw.			2		1		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.18	741.2	29.91	759.8	77.4	25.2	49	nw.			2	c	0			0	0		M. Ablard, Director.
Lamballe, Normal School					64.0	17.8	74	nw.			1		10		nw.	0.020	0.5	covered	M. Ollitrault, Director.
Lescar, Normal School	29.47	748.4	30.01	762.2	79.7	26.5	53	e.			1		0			0	0	clear	M. Chauvin, Director.
Lorient, Naval Observatory	30.02	762.5	30.12	765.1	66.2	19.0	77	w.			1		10		w.	0.016	0.4	raining	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.06	738.0	30.08	764.0	75.0	23.9	51	w.			1	0	8 n		w.	0	0	very cloudy	M. André, Director.
Mans, Normal School	29.81	757.2	30.11	764.9	68.2	20.1	81	wnw.			3		10		w.	0.016	0.4	covered	M. Piboen, Director.
Marseille, Observatory	29.77	756.2	30.04	762.9	78.8	26.0	45	wsw.			1		0			0	0		M. Stephan, Director.
Montlouis	25.06	636.4	29.90	759.4	70.9	21.6	49	w.	5.6	2.5				sw.		0.484	12.3		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.85	758.3	30.00	762.1	87.3	30.7	51	sse.			3		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.30	744.3	30.06	763.5	74.1	23 4	56	s.			1		10			0	0	covered	M. Hasse, Director
Nantes, Observatory	29.97	761.3	30.14	765.5	72.1	22.3	77	wsw.			1-3	0	9kn; n		wnw.	0.024	0.6		M. Larocque, Director.
Perpignan, Observatory	29.94	760.4	30.04	763.0	85.6	29.8	36	se.	9.4	4.2			0			0.012	0.3		Dr. Fines, Director.
Pic-du-Midi, Summit	21.50	546.0			51.8	11.0		se.			1		5		se.	0.157	4.0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.00	736.7	30.03	762.8	75.2	24.0	75	n.			1		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.32	643.1			56.7	13.7	95	se.			1		8			0.102	2.6	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	30.09	764.2	30.12	765.0	75.9	24.4	77	wsw.			1		10		wsw.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.92	759.9	30.13	765.2	73.2	22.9	74	nw.			1		5		ne.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.98	710.8	30.05	763.2	73.6	23.1	58						5			0	0	cloudy	M. Seger, Director.
Rouen, Normal School	30.00	761.9	30.04	763.1	69.8	21.0	78	w.			2		5		sw.	0.04	1.	cloudy	M. Brotier.
Saint Maur, Observatory	29.90	759.4	30.06	763.6	72.7	22.6	72	wsw.			1		10		wsw.	0.087	2.2		M. Renou, Director.
Toulouse, Observatory	29.42	747.3	30.15	765.7	85.1	29.5	49	ne.			1		0			0	0	clear	M. Baillaud, Director.
Tours	29.90	759.4	30.08	763.9	74.5	23.6	60	sw.			1		10		wsw.	0	0	covered	M. de Tastes.
Versailles, Observatory	29.57	751.1	30.06	763.6	72.0	22.2	71	nw.			1					0.681	17.3		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.78	756.4	30.07	763.8	72.7	22.6	74	sw.			1		10		sw.	0.008	0.2		M. Marié Davy, Director
German.																			
Ansbach	28.65	727.7	30.06	763.4	69.6	20.9	48	w.			2		2	w.		0	0		Prof. Jnedt.
Bamberg	29.23	742.4	30.08	764.1	70.3	21.3	40	calm			0	0	3 k		w.	0	0		Prof. Dr. Hoh.
Berlin	29.84	757.9	30.01	762.3	67.6	19.8	72	nw.			2		9			0.134	3.4		Prof. Dr. Arndt.
Breslau	29.48	748.7	30.01	762.2	68.2	20.1	55	wnw.			2		4			0	0		Royal University Obs'y.
Carlsruhe	29.63	752.7	30.06	763 5	73.2	22.9	59	sw.			2		1	sw.		0.118	3.0		Albert Senz.
Cassel	29.30	744.2	30.01	762.3	79.5	26.4	59	nw.			2		3	nw.		0	0		Dr. H. Möhl.
Frankfort-on-the-Main	29.70	754.3	30.05	763.3	73.2	22.9	62	sw.			1		2			0	0		Physical Society.
Friedrichshafen	28.68	728.4	30.08	764.1	64.8	18.2	70	sw.			3		0			0.335	8.5		Wilhelm, Chief Tel.
Hamburg	29.94	760.4	30.03	762.7	69.6	20.9	67	w.			1		8			0	0		E. Preller.
Kiel	30.00	761.9	30.01	762.3	68.0	20	70	n.			1		8			0	0		Prof. Dr. G. Karsten
Leipsic, Astrom'l Obs'y	29.64	752.8	30.05	763.2	66.2	19.0	74	nw.			2		10	nw.		0.283	7.2		H. Leppig, Asst.
Magdeburg	29 83	757.7	30.02	762.4	68.5	20.3	75	nw.			1	0	9 ks		w.	0.169	4.3		Dr. Assmann.
Memel	29.96	761.0	30.01	762.2	74.1	23.4	63	nw.			3	0	2 k						Issermann.
Munich	28.30	718.8	30.17	766.3	68.9	20.5	49	nw.			1		5	w.		0.008	0.2		Dr. C. Lang.
Neufahrwasser	29.96	760.9	29.97	761.3	70.5	21.4	82	n.			2		3			0	0		A. Lothes.
Neustadt, Palatinate	29.50	749.2	30.02	762.6	73.8	23.2	74	s.			1		5	sw.		0	0	foggy	Dicknether.
Stuttgart	29.11	739.3	29.97	761.2	71.1	21.7	56	n.			1		2	nw.		0.150	3.8		Prof. Dr. Schoder.
Wustrow	30.01	762.3	30.04	763.0	66.2	19.0	84	wnw.			3	0	0			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.43	747.4	29.79	756.7	88.3	31.3		sw.			2.0		0			0	0		Schmidt & Wourlisch
Indian.																			
Kurrachee	29.62	752.3	29.67	753.6	82.2	27.9	82	wsw.	28.0	12.5			7	w.		0	0	d. clouds	
Deesa	29.17	741.0	29.64	752.8	86.0	30.0	58	ssw.	16.0	7.2			7	wsw.	wsw.	0	0	d. clouds	
Bombay	29.76	755.8	29.79	756.7	81.6	27.6	80	w.	9.0	4.0			10	w.	wnw.	0	0	overcast	
Poona, Yarrowda	27.92	709.2	29.80	757.0	77.7	25.4	66	wsw.	28.0	12.5			9	w.	w.	0.07	1.8	d. clouds	
Trichinopoly	29.46	748.2	29.74	755.3	87.0	30.6	55	wsw.					10			0.18	4.6	overcast	
Bellary	28.26	717.7	29.70	754.5	84.8	29.3	50	nw.	11.0	4.9			10			0	0	gloomy	
Belgaum	27.26	692.5	29.83	757.6	69.6	20.9	88	wnw.	7.0	3.1			10	ne.	sw.	0	0	hazy	
Lahore	28.75	730.2	29.46	748.4	94.1	34.5	51	w.	2.0	0.9			0			0	0	blue sky	
Roorkee	28.68	728.5	29.56	750.9	85.8	29.9	69	se.	2.6	1.2			7			0	0		
Agra	29.04	737.6	29.59	751.6	87.2	30.7	62	sw.	10.0	4.5			10		sw.	0	0	overcast	
Nagpur	28.61	726.7	29.63	752.7	80.7	30.4	55	nw.	4.0	1.8			9		w.	0	0	gloomy	
Jubbulpore	28.31	719.1	29.65	753.1	83.2	28.4	61	nw.	4.7	2.1			10		nw.	0	0	overcast	
Lucknow	29.28	743.6	29.65	753.0	83.2	28.4	77	ene.	2.7	1.2			10	wsw.		0.11	2.8	overcast	
Allahabad	29.33	745.0	29.64	752.9	80.0	26.7	89	calm	0	0			10			0.06	1.5	raining	
Patna	29.46	748.2	29.64	752.9	82.6	28.1	84	n.	2.4	1.1			8	n.	n.	0.62	15.7	d. clouds	
Hazaribagh	27 62	701.6	29.62	752.3	78.8	26.0	77	n.	7.5	3.4			10	n.	s.	1.28	32.5	thund'r st'm	
Cuttack	29.57	751.0	29.65	753.0	77.4	25.2	90	ese.	0.8	0.4			10			5.15	130.8	raining	
Calcutta, Alipore	29.58	751.4	29.61	752.0	77.5	25.3	95	ese.	2.0	0.9			10			1.53	38.9	overcast	
Dhubri	29.50	749.4	29.62	752.3	82.4	28.0	87	calm	1.6	0.7			1			0.01	0.3	d. clouds	
Chittagong	29.60	751.7	29.68	754.0	80.2	26.8	86	se.	4.8	2.2			8			0	0	d. clouds	
Sibsagar	29.25	743.0	29.58	751.4	87.4	30.8	76	ne.	6.0	2.7			3			0	0	blue sky	
Jeypore	28.19	716.1	29.60	751.8	89.7	32.1	51	wsw.	5.3	2.4			3		w.	0	0	d. clouds	
Zanzibar, Africa	30.06	763.5			79.9	26.6	61	s.	6.2	2.9			6		se.	0	0	d. clouds	
Italian.																			
Udine	29.70	754.4	30.10	764.4	76.1	24.5	43	s.	1.3	0.6			1			0	0		Prof. Giovanni Clodig.
Milan	29.56	750.7	30.05	763.3	77.9	25.5	46	sw.	3.8	1.7			1	wnw.		0	0		Prof. Schiaparelli.
Padua	29.93	760.2	30.04	762.9	78.3	25.7	37	ssw.	2.5	1.1			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	29 15	740.4	30.02	762.6	75.9	24.4	52	nw.	3.8	1.7			2			0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Genoa	29.87	758.6	30.05	763.3	77.9	25.5	57	sw.	5.6	2.5			0			0	0		Prof. G. M. Garibaldi
Mondovi	28.10	715.2	29.99	761.8	76.3	24.6	37	nw.			4		0			0	0		Prof. D. C. Bruno
Pesaro	29.92	759.9	29.97	761.1	78.1	25.6	57	ese.	14.3	6.4			1			0	0		Prof. Luigi Guidi.
Florence	29.78	756.3	30.02	762.5	79.7	26.5	28	nw.			2		2			0	0		Prof. Costantino Pitter
Leghorn	29.89	759.3	29.98	761.4	81.3	27.4	45	w.	3.8	1.7			2			0	0		Prof. P. Monte.
Rome	29.86	758.5	30.03	762.8	84.4	29.1	36	wsw.	4.9	2.2			3			0	0		Prof. P. Tachini.
Lecce	29.74	755.5	29.98	761.6	75.4	24.1	46	wnw.	18.1	8.1			0			0	0		Prof. C. de Giorgi
Cosenza	29.12	739.6	29.97	761.3	80.6	27.0	71	ssw.	3.1	1.4			2	sw.		0	0		Prof. D. Conti.
Cagliari	29.82	757.5	30.01	762.3	80.8	27.1	55	se.			2		1			0	0		Prof. A. Pachnotti.
Palermo	29.78	756.5	30.02	762.6	80.2	26.8	55	ne.	9.8	4.4			2			0	0		Prof. G. Ciacciatore.
Syracuse	29.94	760.5	29.98	761.6	80.2	26.8	50	se.	7.4	3.3			7	wnw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.53	750.1	30.04	762.9	81.7	27.6	37	ne.	1.3	0.6			1	e.		0	0		Prof. T. Brioschi.
Stelvio	22.34	567.5			49.5	9.7	44	ne.			2		0			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.38	568.6			51.4	10.8	75	e.			2		4			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.97	761.2	30.01	762.2	70.8	21.6	90	wsw.	0.1	0.0		0	0			0	0	clear	K. Ogawa.
Hakodate	30.08	764.0	30.09	764.3	66.0	18.9	89	ne.	1.2	0.5			0			0	0	clear	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.81	757.2	29.98	761.5	71.0	21.7	77	ese.	2.3	1.0		0	5 sck			0	0	fair	M. Fojima.
Nagasaki, I. M. Obs'y	29.65	753.1	29.84	758.0	80.5	26.9	67	nw.	1.8	0.8		0	0			0	0	clear	
Nemuro	30.08	764.0	30.15	765.8	68.0	20.0	93	sw.	12.0	5.4		0	4			0	0	fair	
Nilgata	29.95	760.7	29.98	761.5	74.6	23.7	84	ne.	3.3	1.4		0	0			0	0	clear	M. Morita.
Nobiru	30.01	762.2	30.02	762.6	72.3	22.4	97	s.	8.1	3.7		0	0			0	0	clear	H. Midzushina.
Osaka	29.91	759.7	29.92	759.9	74.5	23.6	68	ene.	9.1	4.0			10 s			0	0	cloudy	
Sapporo					69.8	21.0	94	n.	1.8	0.8			2			0	0	clear	
Tokei Obs'y, Yeddo	29.97	761.1	30.04	763.0	70.6	21.4	87	e.	3.0	1.3		0	0			0.013	0.3	fair	The Staff.
Waknyamt	29.90	759.4	29.95	760.7	72.7	22.6	78	ene.	6.4	2.9		0	0			0.003	0.1	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.92	762.0	30.11	764.8	74.5	23.6	66	ene.	10.5	4.7		0	4 k;ks		ne.	0.10	2.5	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	601.9	29.92	759.9	59.5	15.3	92	calm	0	0		5 ck	0	sw.		0.483?	12.3?	fair	Prof. Vicente Fernandez.
Leon.†	24.37	619.0	30.03	762.7	59.0	15.0	95	ne.			1	6 c	3 k	ne.	ne.	0.221	5.4	very cloudy	Prof. M. Leal.
Mazatlan	29.70	754.3	29.96	760.8	76.5	24.7	95	ssw.	11.0	4.9			10 n		ssw.	0.670	17.0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.2	30.13	765.2	55.4	13.0	89	calm			0	0	6 ks		e.	0.055	1.4	½ cloudy	The Staff.
Morelia	24.19	614.3	30.21	767.3	57.4	14.1	61	s.			3	1	2	s.	s.	0.520	13.2	½ cloudy	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.95	608.4	29.80	758.6	63.3	17.4	94	calm			0		10 kn		se.	0.090	2.2	covered	M. Y. de Leon, M. E
Puebla, Catholic Institute	23.44	595.5	30.21	767.3	53.4	11.9	85	ne.	4.9	2.2			10		se.	0.481?	11.8?	covered	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D.
Zacatecas	22.54	572.5	30.07	763.7	59.3	15.8	77	w.	3.9	1.7		0	1 k			0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.01	762.2	30.01	762.2	72.3	22.4		ssw.			3					0	0		
Groningen	29.95	760.6	30.00	762.0	69.6	20.9		se.			1					0	0		
Helder	29.98	761.4	29.98	761.4	67.1	19.5		ssw.			2					0.067	1.7		
Hellevoetsluis	30.00	761.9	30.00	761.9	72.7	22.6	72	ssw.			1					0.217	5.5		
Utrecht	29.97	761.2	30.02	762.4	73.4	23.0	71	ssw.			2		5			0.547	13.9	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.88	758.9	29.94	760.5	65.8	18.8	70	s.	4	2			6			0	0		
Brono	29.93	760.2	29.97	761.2	62.8	17.1	79	n.	9	4			4			0	0		
Christiania	29.84	758.0	29.98	761.6	70.0	21.1	74	wsw.	0	0			5			0	0		
Glæsvær	30.03	762.8	30.06	763.4	57.2	14.0		e.			4		7						
Lodlingen	29.96	760.9	30.00	762.1	60.8	16.0	87	wsw.			1		10			0.012	0.3	foggy	
PORTUGUESE.																			
Angra, Azores					74.3	23.5	80	w.	2.5	1.1			5			0	0		Dr. J. A. Sampaio.
Campo Major	29.00	738.1	30.01	762.2	85.0	29.8	39	wnw.	4.9	2.2			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.02	762.6	30.11	764.7	77.7	25.4	64	sw.	6.9	3.1			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.80	757.0	30.15	765.9	74.1	23.4	56	n.	21.0	9.4			0			0	0		The Staff.
Ponta Delgada, Azores	30.31	769.8	30.37	771.5	79.2	26.2	67	wsw.	4.3	1.9			3			0	0		
Saint Paul de Lotando	29.81	757.2	30.02	762.4	72.0	22.2	83	wnw.			1		0			0	0		
Serra da Estrella	25.40	646.6	30.03	762.7	66.6	19.2	35	nw.	17.4	7.8			2			0	0		
RUSSIAN.																			
Akmolinski	28.92	734.5	29.95	760.7	74.7	23.7	41	wnw.	7	3		1 k	0			0	0		Major K. Lasarew
Archangel	29.89	759.2	29.91	759.7	70.7	21.5	76	w.	18	8		2 cs	0			0	0		Capt. Sseliwerstow.
Astrakhan	30.02	762.5	29.94	760.4	86.0	30.0	51	se.	11	5		0	3 s			0	0	light clouds	Capt. Wisganow.
Barnaul	29.45	748.0	29.94	760.4	61.5	16.4	61	nw.	7	3			9			0.138	3.5		Meteorological Obs'y.
Dorpat	29.77	756.1	30.00	761.9	80.2	26.8	48	ene.	7	3		0	1 k			0	0		Observatory.
Ekaterinburg	29.02	737.1	29.93	760.3	77.4	25.2	37	n.	4	2		0	6 k;ks			0	0		Meterological Obs'y.
Irkutsk																			
Kasan	29.72	754.9	29.97	761.3	82.8	28.2	32	calm	0	0		0	8			0	0	light clouds	Observatory.
Kertch	29.77	756.1	29.79	756.6	81.9	27.7	69	ene.	13	6		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.17	741.0	29.79	756.6	64.8	18.2	95	e.	2	1			10 n					raining	Observatory.
Lugan	29.67	753.5	29.80	758.4	83.7	28.7	54	sw.	4	2			6			0	0		Meteorological Obs'y.
Moscow	29.51	749.6	29.97	761.2	68.9	20.5	70	s.	4	2		0	8 ks					raining	Meteorological Obs'y.
Nikolaiev	29.76	755.9	29.83	757.7	78.8	26.0	67	ssw.	4	2		cs	4 k			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.63	752.7	29.78	756.3	83.1	28.4	83	calm	0	0		0	0 k			0	0		Physical Observatory.
St. Petersburg	29.99	761.8	30.01	762.3	75.9	24.4	52	nnw.	7	3			9			0.004	0.1		Central Physical Obs'y.
Semipalathinsk	29.31	744.4	29.94	760.4	71.2	21.8	44	wnw.	9	4			3			0	0		Major Lasarew
Tashkend, Laboratory	28.28	718.3	29.76	756.0	80.6	27.0	50	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.48	723.4	29.80	756.8	95.4	35.2	32	s.	9	4		0	1 k			0	0		Physical Observatory.
Vladivostock	29.88	758.9	29.95	760.6	71.2	21.8	90	sse.	2	1		0	8 k						
Warsaw	29.45	748.1	29.85	758.3	74.3	23.5	50	nnw.	7	3		0	8 k						Astronomical Obs'y.
Wilna	29.51	749.6	29.91	759.6	79.2	26.2	52	e.	2	1			8			0.008	0.2		Berg, Assistant.
Yeniseisk	29.65	753.0	29.93	760.2	53.6	12.0	84	se.	9	4			8			0.012	0.3		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.83	757.7	60	15.6	94	w.			6		10			0.2	5.	hvy showers	J. Youngclause.
North Unst			29.85	758.2				sw.			3	4	2	calm					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.95	760.7	30.05	763.2	82.0	27.8	67	s.	5.4	2.4		0	0			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.09	764.3	30.15	765.8	70.5	21.4	81	nw.	2.9	1.3			10			0	0	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.16	689.8	29.97	761.1	81.7	27.6	42	e.	6.3	2.8		0	3			0	0	clouds	Domingo Martin.
Madrid, Royal Obs'y	27.84	707.2	29.92	760.0	90.7	32.6	35	sw.	11.0	4.9		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.93	760.2	30.08	764.1	89.2	31.8	58	e.	2.2	1.0		1	3	w.		0	0	clouds	Olayo Diaz, Director
Oviedo	29.30	745.8	30.23	767.9	63.5	17.5	90	n.	2.5	1.1			10 n			0.228	5.8	covered	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.24	742.6	30.11	764.7	69.6	20.9	66	n.	8.1	3.6			9			0	0	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.95	760.8	30.02	762.4	79.4	26.3	83	ne.	4.5	2.0		2 c;cs	1 ks	s.	e.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.87	758.6	29.92	760.0	83.3	28.5	83	s.	8.8	3.9		1 c	1 k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.98	761.4	30.07	763.8	80.4	30.2	50	nw.	4.9	2.2		0	5		nw.	0	0		Capt. C. Pujazon R. N.
San Juan de Porto Rico, W.I	29.89	759.2	29.98	761.5	81.7	27.6	84	calm	0	0		6 cs	3 k	n.	sw.	0.118	3.0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.77	756.1	29.91	759.7	80.8	27.1	84	nnw.	7.5	3.4		0	0			0	0	clear	José L. Yrastorza.
SWEDISH																			
Haparanda																			
Umea	29.93	760.2	29.97	761.2	68.7	20.4	76	sw.			2		5			0	0		
	29.91	759.7	29.96	761.0	74.1	23.4	72	calm			0		7			0.197	5.0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Hernosand	29.87	758.6	29.92	759.9	76.6	24.8	65	s.			2		3			0.020	0.5		
Stockholm	29.84	757.9	30.02	762.4	79.9	26.6	41	se.			2		1			0	0		
Wisby	29.92	760.0	29.98	761.5	72.7	22.6	71	nne.			2		3			0	0		
Sub-series.																			
Upsala	29.90	759.5	29.99	761.7	77.7	25.4	40	nw.	6.5	2.9			1			0	0		S. G. Fineman.
Swiss.																			
Geneva	28.72	729.4	30.10	764.5	69.8	21.0	55	n.			2		0			0	0	clear	The Observatory
Turkish.																			
Constantinople			29.84	758.0	77.2	25.1	69	n.	17	7.5			8		n.	0	0		The Observatory.
Valona			30.11	764.9	77.5	25.3		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.80	756.8	87.8	31.0	61	wnw.			1	0	0			0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	30.10	764.5	30.18	766.6	60.5	15.8	61	n.	2	0.9		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.57	751.1	30.21	767.3	55	12.8	86	nw.	2	0.9		6 cs	0	n.		0	0	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.07	636.8	29.79	756.7	58	14.4	78	e.	3	1.3		0	0			0.04	1.0	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.23	691.6	29.98	761.5	55	12.8	64	s.	4	1.8		2 c	0	sw.		0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.92	734.6	30.07	763.8	66.5	19.2	93	e.	8	3.6			10 s			0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.10	764.5	30.11	764.8	64.2	17.9	78	n.	8	3.6		4 c	0			0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.89	759.2	30.08	764.0	74	23.3	84	ne.	3	1.3		5 ck	5 s	sw.		0.02	0.5	cloudy	John Healy.
Baltimore, Maryland	30.15	765.8	30.20	767.1	63	17.2	56	ne.	5	2.2		0	0			0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.10	764.5	30.12	765.0	70.0	21.1	57	e.	18	8.0		2 c	2 k	sw.	w.	0	0	fair	G. A. Hill.
Bennett, Fort, Dakota	28.56	725.4	30.10	764.5	63	17.2	73	n.	2	0.9		5 k	5 s			inap.	inap.	cloudy	A. Pritchard.
Benton, Fort, Montana	27.25	692.1	30.04	763.0	49	9.4	83	calm	0	0		0	0			0	0	clear	S. Wheaton.
Behring Island, Behring Sea	29.75	755.6	29.77	756.1	53.0	11.7		s.	6	2.7			10 s			0.07	1.8	light rain	Dr. L. Steineger.
Bismarck, Dakota	28.34	719.8	30.09	764.3	49	9.4	80	s.	2	0.9		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.08	764.0	30.11	764.8	60	15.6	65	n.	11	4.9		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.19	690.6	29.94	760.5	48	8.9	66	w.	4	1.8		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.97	761.2	30.12	765.0	57.0	13.9	59	nw.	13	5.8		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.96	761.0	30.00	762.0	76.0	24.4	97	calm	0	0		0	4 ks			0	0	fair	M. McCarty.
Buffalo, New York	29.46	748.3	30.19	766.8	55	12.8	80	ne.	3	1.3		1 c	sk.	n.		0	0	clear	Clarence Weaver.
Buford, Fort, Dakota	28.17	715.5	30.11	764.8	45	7.2	71	s.	1	0.4		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.84	757.9	30.13	765.3	55.3	12.9	68	nw.	6	2.7		0	0			0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.81	757.2	30.20	767.1	68.6	20.3	86	ne.	4	1.8		0	0			0	0	clear	W. H. Ray.
Campo, California	27.38	695.4	29.88	758.9	48	8.9	93	s.	1	0.4		0	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	30.06	763.5	30.08	764.0	75	23.9	70	ne.	18	8.0			10 s			0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	30.09	764.3	30.12	765.0	61.8	16.6	72	n.	10	4.5		4 cs	0	nw.		0	0	fair	W. E. Smith.
Cape Mendocino	29.41	747.0			53	11.7	86	n.	20	8.9		0	fg.			0	0	clear	J. R. Williams.
Cedar Keys, Florida	30.04	763.0	30.06	763.5	76	24.4	71	w.	5	2.2		2 c	2 k			0.04	1.0	fair	F. W. Mixer.
Champaign, Illinois	29.39	746.5	30.18	766.6	64.5	18.1	77	n.	4	1.8		0	fg.			0	0	light fog	L. A. Welsh.
Charleston, S. Carolina	29.99	761.7	30.04	763.0	74	23.3	90	ne.	2	0.9			10 s		w.	2.20	55.9	threatening	J. H. Smith.
Charlotte, N. Carolina	29.22	742.2	30.05	763.3	67.0	19.4	68	ne.	6	2.7		10 cs	0	w.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.29	744.0	30.10	764.5	67.0	19.4	70	ne.	5	2.2		4 k	0	e.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.17	613.9	29.87	758.7	56.2	13.4	77	w.	6	2.7			10 s		sw.	inap.	inap.	cloudy	E. McGovern.
Chicago, Illinois	29.40	748.3	30.15	765.8	65.8	18.8	79	sw.	6	2.7		10 k	0	ne.		0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.08	764.0	30.10	764.5	68	20.0	73	ne.	15	6.7		4 c	5 k	w.		0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.55	750.6	30.19	766.8	63.5	17.5	77	e.	4	1.8		0	fg.			0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.47	748.5	30.19	766.8	53.0	12.0	88	s.	4	1.8		1 k	fg.			0	0	clear	J. B. Newlin.
Coleman City, Texas	28.30	718.8	30.04	763.0	69	20.6	97	e.	1	0.4			10 s			0	0	cloudy	L. Dorman.
Columbus, Ohio	29.36	745.7	30.18	766.6	56	13.3	74	ne.	2	0.9		0	0			0	0	clear	D. Cuthbertson.
Concho, Texas	28.16	715.3	30.02	762.5	69	20.6	97	ne.	4	1.8			10 s		s.	0.31	7.9	cloudy	W. W. McConihe.
Custer, Fort, Montana	26.91	683.5	29.97	761.2	54	12.2	66	e.	3	1.3		0	0			0	0	clear	W. B. Lamar.
Davenport, Iowa	29.54	750.3	30.17	766.3	65	18.3	84	s.	2	0.9		0	hz.		calm	0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.19	639.8	29.84	757.9	63	17.2	93	calm	0	0			10 ks			0.61	15.5	cloudy	J. Williams.
Dayton, Washington T'y	28.26	717.8	29.97	761.2	40	7.8	68	ne.	2	0.9		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota																			G. W. Scott.
Decatur, Texas					72	22.2	76	se.	3	1.3		0	3 s			0	0	clear	D. J. Carr.
Delaware Breakwater, Del	30.10	764.5	30.12	765.0	65	18.3	84	e.	21	9.4		2 c	1 k	e.	e	0	0	clear	T. S. Townsend.
Denison, Texas	29.33	745.0	30.11	764.8	71.0	21.7	84	se.	4	1.8		5 cs	0			0	0	fair	J. McGlone.
Denver, Colorado	24.90	632.4	29.92	760.0	60.0	15.6	67	s.	6	2.7		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.29	744.0	30.17	766.3	64	17.8	84	sw.	4	1.8		3 c	0	w.		0	0	clear	F. W. Conrad.
Detroit, Michigan	29.52	749.8	30.21	767.3	58.0	14.4	80	calm	0	0		3 c; k	2 s	w; nw		0	0	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.58	700.5	30.06	763.5	65.3	18.5	90	se.	4	1.8		1 ck	4 ks		se.	0	0	fair	W. M. Mattingly.
Dubuque, Iowa	29.47	748.5	30.16	766.1	64.3	17.9	73	s.	3	1.3		1 ck	2 ks; fg	n.	e.	0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.27	743.4	29.99	761.7	58	14.4	93	calm	0	0			10 s			0.03	0.8	cloudy	N. B. Conger.
Eagle Pass, Texas	29.23	742.4	30.02	762.5	76.0	24.4	85	se.	4	1.8		0	1 s		se.	0	0	clear	F. Belford.
Eagle Rock, Idaho	25.34	643.0	29.89	759.2	47	8.3	54	sw.	3	1.3		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.90	759.4	29.97	761.2	59.0	13.3	74	nw.	6	2.7		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.34	694.4	29.98	761.5	66	18.9	78	calm	0	0			10 s			0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.29	667.8	29.89	759.2	66	18.9	78	calm	0	0		0	0			0.08	2.0	clear	J. F. Marshall
Erie, Pennsylvania	29.48	748.8	30.19	766.8	57	13.9	80	s.	1	0.4		0	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.50	749.3	30.14	765.5	58.5	14.7	80	se.	6	2.7			10 n		nw.	0.18	4.6	light rain	George Heathcote.
Fredericksburg, Texas	28.34	719.8	30.05	763.3	74	23.3	97	calm	0	0			10 s		s.	0	0	cloudy	Frank Halwegler.
Galveston, Texas	30.00	762.0	30.05	763.3	78	25.6	90	e.	7	3.1			10 ks		se.	0.23	5.8	threatening	E. O'C. Macherney.
Grand Haven, Michigan	29.50	749.3	30.15	765.8	60.5	15.8	87	e.	2	0.9			10 s		w.	0	0	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.27	641.8	29.84	757.9	61.9	16.6	90	ne.	2	0.9		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.04	763.0	30.06	763.5	73	22.8	84	ne.	16	7.2			10 n		ne.	0.42	10.7	light rain	R. M. Crawford.
Helena, Montana	25.86	656.8	29.96	761.0	53	11.7	57	sw.	4	1.8		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.17	740.9	30.17	766.3	72.0	22.2	84	ne.	1	0.4			10 s			0.43	10.9	cloudy	J. W. Byram.
Huron, Dakota	28.70	729.0	30.04	763.0	66.1	18.9	78	ne.	18	8.0			9 s		ne.	0	0	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.41	747.0	30.18	766.6	66	18.9	73	calm	0	0		4 k	hz.	ne.		0	0	fair	O. Schutze
Indianola, Texas	30.00	762.0	30.03	762.7	79.7	26.5	88	se.	4	1.8		4 ck	2 ks	nw.	s.	1.52	38.6	fair	I. A. Reed.
Jacksboro, Texas	28.96	735.0	30.08	764.0	68	20.0	93	se.	1	0.4		2 cs	0			0.71	18.0	clear	J. P. Sherry.
Jacksonville, Florida	30.00	762.0	30.04	763.0	81	27.2	79	sw.	1	0.4		5 cs	0	w.		0.83	21.1	fair	J. W. Smith.
Keogh, Fort, Montana	27.60	701.0	30.03	762.7	53	11.7	69	n.	2	0.9		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.52	749.8	30.16	766.1	70.0	21.1	68	sw.	6	2.7		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.01	762.2	30.03	762.7	81.0	27.2	74	ne.	4	1.8			10 s		ne.	0.14	3.6	threatening	R. H. Paxton.
Kittyhawk, North Carolina	30.05	763.3	30.07	763.8	73	22.8	84	e.	14	6.3		0	8 ks		ne.	0.30	7.6	cloudy	E. A. Beals.
Knoxville, Tennessee	29.11	739.4	30.12	765.0	65	18.3	79	ne.	6	2.7		5 k	0	se.		0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.34	745.2	30.09	764.3	71	21.7	66	s.	5	2.2		2 c	3 s	n.		0	0	fair	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.30	744.2	30.16	766.1	63	17.2	84	s.	1	0.4		0	fg.			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.18	741.2	29.99	761.7	55.0	12.8	53	se.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.84	757.9	30.15	765.8	72	22.2	76	ne.	2	0.9		0	0			0	0	clear	W. G. Simons.
Los Angeles, California																			Egbert van Dyke.
Louisville, Kentucky	29.60	751.8	30.15	765.8	63	17.2	84	n.	8	3.6		0	0			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.44	747.8	30.12	765.0	69.8	21.0	61	nw.	1	0.4		3 k	0	w.		0	0	clear	Lewis Duane.
Macon, Fort, North Carolina	30.06	763.5	30.07	763.8	73	22.8	97	nw.	5	2.2			10 s		sw.	0.85	21.6	cloudy	F. P. Chaffee.
Madison, Wisconsin	29.17	740.9	30.15	765.8	66	18.9	78	sw.	4	1.8		0	8 s		w.	0	0	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.82	655.8			44	6.7	93	n.	5	2.2		0	c			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.81	706.4	30.02	762.5	70	21.1	76	calm	0	0		0	0			0.17	4.3	clear	J. E. Thatcher.
Marquette, Michigan	29.37	746.0	30.08	764.0	57	13.9	93	se.	10	4.5			10 n			0.25	6.3	light rain	J. Gilligan.
Memphis, Tennessee	29.83	757.7	30.16	766.1	75	23.9	56	n.	4	1.8		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.42	747.3	30.15	765.8	64	17.8	90	sw.	11	4.9			10 s		w.	0	0	threatening	W. Line.

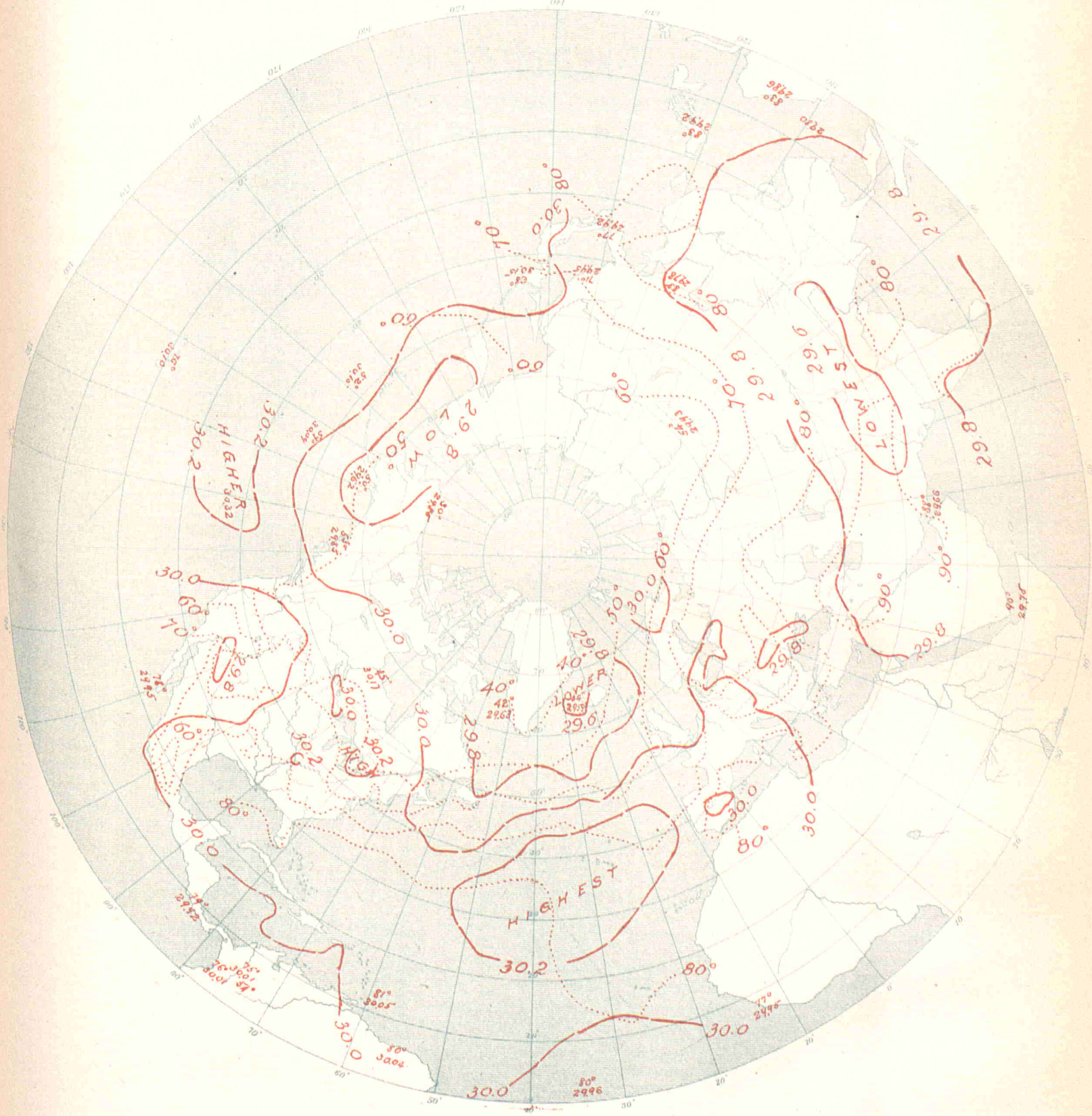
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.76	679.7	29.98	761.5	44	6.7	76	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.01	762.2	30.05	763.3	71.5	21.9	84	n.	4	1.8	.....	3 cs	0	sw.	.....	0	0	clear	C. A. Read.
Montgomery, Alabama	29.81	757.2	30.04	763.0	72	22.2	84	ne.	2	0.9	.....	4cs;ck	2ks;fg	w.	.....	0.04	1.0	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.11	739.4	30.08	764.0	58	14.4	69	nw.	3	1.3	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	H. Bessant.
Morgantown, W. Virginia	29.20	741.7	30.20	767.1	55.0	12.8	87	n.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.76	603.5	29.84	757.9	28.0	— 2.2	96	nw.	49	21.9	.....	.....	fg.	.....	nw.	0	0	dense fog	J. G. Lansley.
Nashville, Tennessee	29.57	751.1	30.13	765.3	66.0	18.9	78	nw.	4	1.8	.....	0	hz.	.....	.....	0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.04	763.0	30.15	765.8	58	14.4	64	n.	3	1.3	.....	0	sk.	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut.	30.07	763.8	30.12	765.0	63	17.2	56	calm	0	0	.....	1 k	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.00	762.0	30.05	763.3	76.8	24.9	74	n	4	1.8	.....	4 c	sk.	w.	.....	0.25	6.3	fair	L. Dunne.
Newport, Rhode Island	30.07	763.8	30.12	765.0	61.8	16.6	48	n.	10	4.5	.....	0	0	.....	.....	0	0	clear.	W. McGillivray.
New York, New York	29.99	761.7	30.16	766.1	63	17.2	68	n.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.05	763.5	30.09	764.3	74	23.3	82	e.	3	1.3	.....	.....	10 ks	.....	e.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.22	691.4	30.02	762.5	61.6	16.4	66	se.	4	1.8	.....	0	2 s	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y.	29.99	761.7	30.03	762.7	45.0	7.2	88	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Ogglaamie, Pt. Barrow, Alas.	29.83	757.7	29.85	758.2	29.5	— 1.4	100	ene.	8	3.6	.....	0	1 s	.....	.....	inap.	inap.	clear	P. H. Ray.
Omaha, Nebraska	29.02	737.1	30.16	766.1	67.8	19.9	76	s.	5	2.2	.....	6 c	0	.....	.....	0	0	fair	A. Pollak.
Oswego, New York	29.85	758.2	30.17	766.3	60.0	15.6	60	se.	6	2.7	.....	3 k	0	nw.	.....	inap.	inap.	clear	S. W. Beall.
Palestine, Texas	29.57	751.1	30.11	764.8	70.0	21.1	90	s.	6	2.7	.....	5 ck	0	nw.	.....	inap.	inap.	fair	L. M. Pindell.
Pensacola, Florida	30.00	762.0	30.03	762.7	72.7	22.6	95	w.	4	1.8	.....	2 cs	6 s	w.	w.	0.19	4.8	cloudy	M. McGauran.
Philadelphia, Pa.	30.07	763.8	30.17	766.3	62	16.7	60	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.09	459.5	29.88	758.9	34	1.1	60	se.	5	2.2	.....	0	1 s	.....	.....	0	0	clear	L. M. Dey.
Pioche, Nevada	24.09	611.9	29.79	756.7	62.4	16.9	60	s.	3	1.3	.....	0	0	.....	.....	inap.	inap.	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.39	746.5	30.18	766.6	52.0	11.1	90	nw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Turton.
Poplar River, Montana	27.91	708.9	.....	.....	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.03	762.7	30.04	763.0	78.8	26.0	88	n.	3	1.3	.....	.....	10 s	.....	.....	0.01	0.3	cloudy	M. Hermann.
Port Huron, Michigan	29.54	750.3	30.20	767.1	57.9	14.4	80	e.	1	0.4	.....	7 c	0	.....	.....	0	0	fair	W. O. Bailey.
Portland, Maine	30.02	762.5	30.07	763.8	56.0	13.3	74	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.93	760.2	30.00	762.0	51.0	10.6	86	nw.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	73	22.8	100	ne.	24	10.7	.....	.....	10 n	.....	ne.	0.39	9.9	light rain	F. S. Coburn.
Prescott, Arizona	24.82	630.4	29.80	756.9	56	13.3	90	s.	2	0.9	.....	0	0	.....	.....	inap.	inap.	clear	J. McN. Wright.
Provincetown, Mass.	30.06	763.5	30.09	764.3	59	15.0	65	nw.	10	4.5	.....	0	0	.....	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.00	762.0	30.02	762.5	77.5	25.3	84	ne.	4	1.8	.....	9 c	1 k	calm	calm	0.03	0.8	cloudy	W. J. Evans.
Red Bluff, California	.....	.....	.....	.....	.....	.....	.....	n.	.....	.....	1	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.81	757.2	30.05	763.3	78	25.6	82	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Rochester, New York	29.52	749.8	30.17	766.3	56	13.3	69	sw.	4	1.8	.....	5 k	0	nw.	.....	0	0	fair	E. W. McGann.
Roseburg, Oregon	29.48	748.8	30.02	762.5	48	8.9	86	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.79	756.7	29.80	758.4	57.7	14.3	70	se.	8	3.6	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.62	752.3	30.20	767.1	67.0	19.4	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.19	741.4	30.03	762.7	69.0	20.6	78	sw.	9	4.0	.....	9 cs	0	n.	.....	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.16	740.7	30.01	762.2	53	11.7	86	w.	12	5.4	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.68	652.3	29.87	758.7	68	20.0	53	n.	4	1.8	.....	2 k	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.39	746.5	30.08	764.0	75.0	23.9	90	e.	6	2.7	.....	.....	10 s	.....	.....	0.15	3.8	cloudy	T. J. Kenan.
San Diego, California	29.84	757.9	29.91	759.7	67.6	19.8	88	ne.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.53	750.0	30.19	766.8	61	16.1	72	w.	7	3.1	.....	1 c	0	.....	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.12	765.0	30.16	766.1	64.0	17.8	73	ne.	17	7.6	.....	0	hz.	.....	.....	0	0	clear	B. A. Blundon.
San Francisco, California	29.89	759.2	29.96	761.0	54	12.2	86	sw.	11	4.9	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gerom.
Santa Fé, New Mexico	23.37	593.6	29.86	758.4	58	14.4	58	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.99	761.0	30.05	763.3	75	23.9	90	s.	1	0.4	.....	8ck;cs	fg.	.....	.....	1.29	32.8	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.43	671.3	29.96	761.0	42	5.6	82	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. L. Matthews.
Shreveport, Louisiana	29.88	758.9	30.11	764.8	72	22.2	97	e.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory.	28.90	734.0	30.08	764.0	70.5	21.4	85	n.	1	0.4	.....	8 ck	0	w.	.....	0.01	0.3	cloudy	T. Cleary.
Silver City, New Mexico	24.34	618.2	29.80	756.9	56	13.3	45	calm	0	0	.....	0	3 k	.....	calm	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.79	756.7	29.85	758.2	52.5	11.4	86	calm	0	0	.....	.....	10 ks	.....	nw.	0	0	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.69	754.1	30.15	765.8	67.5	19.7	84	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.03	762.7	30.07	763.8	71	21.7	94	nw.	3	1.3	.....	.....	10 n	.....	w.	0.45	11.4	light rain	O. Parker.
Spokane Falls, Wash. Ter.	28.00	711.2	30.00	762.0	47	8.3	77	ne.	1	0.4	.....	hz.	0	.....	.....	0	0	dense haze	D. Moore.
Springfield, Illinois	29.54	750.3	30.20	767.1	64.8	18.2	81	se.	1	0.4	.....	0	sk.	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	30.02	762.5	30.15	765.8	59.0	15.0	70	n.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo.	28.77	730.7	30.16	766.1	66	18.9	84	se.	6	2.7	.....	2 k	fg.	e.	.....	0	0	clear	J. B. Marbury.
Starkville, Miss.	29.63	752.6	30.10	764.5	72	22.2	76	n.	6	2.7	.....	0	0	.....	.....	0	0	clear	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.28	718.3	30.06	763.5	46	7.8	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.06	687.3	30.00	762.0	65.0	18.3	100	ne.	4	1.8	.....	.....	10 s	.....	ne.	0.56	14.2	cloudy	J. O'Dowd.
Thomas Camp	27.19	690.6	29.81	757.2	70.5	21.4	83	w.	.....	.....	1	0	1 k	.....	.....	0	0	clear	
Thatcher's Island, Mass.	30.02	762.5	30.07	763.8	57.5	14.2	69	n.	14	6.3	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.50	749.3	30.17	766.3	59	15.0	81	calm	0	0	.....	2 k	fg.	nw.	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.51	698.7	29.85	758.2	70	21.1	90	e.	2	0.9	.....	0	4 ks	.....	.....	0.53	13.5	fair	J. L. Whiteside.
Umatilla, Oregon	29.03	752.6	29.99	761.7	49	9.4	44	se.	4	1.8	.....	1 c	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.07	738.4	30.01	762.2	75	23.9	90	se.	1	0.4	.....	10 cs	0	ne.	.....	0.01	0.3	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	68.2	20.1	66	nw.	.....	.....	1	4 cs	0	sw.	.....	0.01	0.3	fair	D. Brooks.
Vicksburg, Mississippi	29.86	758.4	30.10	764.5	68	20.0	90	n.	4	1.8	.....	hz.	hz.	.....	.....	0	0	dense haze	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.59	624.6	29.93	760.2	51.9	11.1	69	nw.	3	1.3	.....	1 ck	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.07	763.8	30.18	766.6	62.1	16.7	71	n.	4	1.8	.....	hz.	0	.....	.....	0	0	clear	F. M. M. Beall.
West Las Animas, Colorado	26.17	664.7	29.92	760.0	59	15.0	93	ne.	8	3.6	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.60	751.8	30.18	766.6	53	11.7	80	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.02	762.5	30.07	763.8	72	22.2	97	n.	3	1.3	.....	.....	10 n	.....	.....	1.77	45.0	light rain	Samuel A. Haney.
Winnemucca, Nevada	25.59	650.0	29.82	757.4	52	11.1	27	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.81	731.8	30.08	764.0	70	21.1	71	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Attfield.
Yuma, Arizona	29.67	753.6	29.81	757.2	82.0	27.8	69	se.	2	0.9	.....	0	2 s	.....	se.	0	0	clear	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1	.....	.....	54.0	12.2	77	sw.	2	0.9	.....	0	6 ns	.....	e.	0.13	3.3	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.04	763.0	30.05	763.3	81	27.2	95	e.	.....	.....	.....	5 k	10 ks	ne.	.....	0.56	14.2	cloudy	J. A. Racker.
Buenaventura, U. S. C.	29.98	761.5	30.01	762.2	76	24.4	95	calm	0	0	.....	0	8 ks	.....	calm	0	0	cloudy	J. I. Plume.
Havana, Cuba†	29.96	761.0	30.02	762.5	81	27.2	82	calm	0	0	.....	0	0	.....	.....	0	0	clear	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	29.98	761.5	29.99	761.7	79.4	26.3	79	n.	1	0.4	.....	4 c	1 ks	e.	e.	0	0	fair	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	76	24.4	.....	calm	.....	.....	0	0	1 k	.....	se.	0	0	.....	S. M. Pike.
Navassa, W. I.	29.84	757.9	29.92	760.0	80	26.7	78	e.	10	4.5	.....	2 cs	3 ks	e.	se.	blank	blank	fair	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	80	26.7	87	se.	.....	.....	2	4 c	5 k	e.	.....	0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.45	748.0	30.01	762.2	75	23.9	89	calm	.....	.....	0	.....	10 ks	.....	n.	1.02	25.9	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	99	se.	.....	.....	1	2 cs	0	se.	.....	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.56	750.8	29.62	752.3	50	10.0	100	ne.	.....	.....	4	.....	10 n	.....	.....	0.82	20.8	raining	W. J. Fisher.
St. Thomas, W. I.	29.90	759.4	30.03	762.7	82	27.8	89	e.	.....	.....	.....	2 c	2 k	.....	e.	0	0	fair	Aug. Wallce.
York Factory, B. A.	30.11	764.8	30.17	766.3	45.0	7.2	92	sw.	14	6.3	.....	3 k	2 s	sw.	sw.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, N. 34° 24′ W. 33° 46′	30.38	771.6	78	25.6	69	ene.			3		3							d. clouds.
H. M. S. Alexandra, Alexandria, Egypt	29.85	758.2	82.5	28.1	81	nw.			2		0					1	wnw.	blue sky.
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.15	765.8	69	20.6	84	se.			1		1							blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.85	758.2	74	23.3		n.			3		9	n.						d. clouds.
H. M. S. Arab, N. 26° 01′ E. 55° 58′	29.54	750.3	94	34.4	58	calm			0		2							d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.12	765.0	61.5	16.4		calm			0		0							blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	29.98	761.5	52	11.1	79	calm			0		4							d. clouds.
H. M. S. Diamond, S 10° 51′, E. 162° 27′	29.91	759.7	80	26.7	86	ese.			1–3		6							d. clouds.
H. M. S. Dido, N. 17° 55′, W. 77° 00′	30.03	762.7	81	27.2		n.			1		1	e.						blue sky.
H. M. Dock-Yard, Bermuda, W. I.	30.11	764.8	80.5	26.9	78	ssw.			1–2		3	ssw.						d. clouds.
H. M. S. Fantome, N. 17° 05′, W. 72° 06′	29.96	761.0	83	28.3		e.			3		7	e.				3	e.	d. clouds.
H. M. S. Flying Fish, N. 34° 25′ E. 125° 38′	29.89	759.2	79	26.1	97	calm			0		8					2	s.	misty.
H. M. S. Gannet, S. 5° 05′, W. 81° 15′	30.02	762.5	61.5	16.4	88	e.			1		7	ene.						d. clouds.
H. M. S. Griffon, N. 47° 26′ W. 55° 48′	29.84	757.9	57.5	14.2	93	ene.			1		10							squally.
H. M. S. Iron Duke, N. 42° 51′ E. 131° 34′	29.94	760.5	75	23.9	100	ssw.			2–3		6	ssw.				2	s.	d. clouds.
H. M. S. Lark, S. 10° 26′, E. 161° 50′	29.94	760.5	80.3	26.8	88	ese.			1		5					1	e.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.02	762.5	58	14.4		e.			1									d. clouds.
H. M. S. Magpie, N. 35° 06′, E. 129° 03′	29.92	760.0	76.6	24.8	76	ne.			3–4		1					1	ne.	blue sky.
H. M. S. Minotaur, Alexandria, Egypt	29.86	758.4	79.5	26.4	84	nw.			1		0					1	nw.	misty.
H. M. S. Northampton, Halifax, Nova Scotia	29.82	757.4	60	15.6	82	calm			0		1							blue sky.
H. M. S. Pegasus, N. 4° 50′, E. 114° 10′	29.86	758.4	83	28.3	87	n.			3		10							d. clouds.
H. M. S. Sappho, Honolulu, Sandwich Islands	30.10	764.5	76	24.4	90	ne.			2		3							d. clouds.
H. M. S. Swiftsure, S. 32° 18′ W. 72° 00′	30.17	766.3	54	12.2	93	s.			1		8	s.				4	sw.	misty.
H. M. S. Sylvia, Montevideo, Uruguay	30.01	762.2	52	11.1	100	calm			0		10							drizzling.
H. M. S. Tenedos, N. 49° 48′ W. 54° 08′	29.78	756.4	61	16.1	82	sse.			1		2							d. clouds.
H. M. S. Triumph, S. 33° 09′ W. 50° 25′	30.01	762.2	59	15.0	94	n.			2		10	calm				6	nne.	showery.
H. M. S. Woodlark, Jask, Persia	29.56	750.8	87.5	30.8	83	s.			2–3		2	ese.						dense mist.
Portuguese Naval.																		
Rio Lima, Porto Praya, Cape Verd Islands	30.08	763.9	82.4	28.0	88	calm			0		5					2	se.	d. clouds.
Tamega, Macao, China	29.70	754.4	82.4	28.0	81	sw.			5		9		sw.	20 h'r	20 h'r			raining.
United States Naval.																		
Navy Yard, Pensacola, Fla.	30.03	762.7	74	23.3	86	nw.	3	1.3			8		sw.	0.05	1.3			fair.
Navy Yard, Portsmouth, N. H.	30.09	764.3	55	12.8	68	nw.	5	2.2			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.91	759.7	73.5	23.1	72	ese.			1		0			0.02	0.5			clear.
Adams, Mare Island, Cal.			55	12.8	87	sw.			4		2			0	0	sm'h		fair.
Alaska, S. 2° 24′, W. 127° 30′	29.98	761.5	73	22.8	85	ne.			3		0			0	0	sm'h		clear.
Alliance, Portsmouth, N. H.	30.09	764.3	54	12.2	80	nw.			1		2			0	0	sm'h		clear.
Ashuelot, Yokohama, Japan*	29.92	760.0	77	25.0	82	ese.			1		2		ese.					clear.
Brooklyn, Rio de Janeiro, Brazil	30.22	767.6	69	20.6	95	nne.	1	0.4			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.15	765.8	63	17.2	78	n.	4	1.8			0			0	0			clear.
Constellation, N. 36° 56′ W. 75° 40′*	30.08	764.0	75	23.9	68	ne.			5		10		ne.			sm'h		cloudy.
Enterprise, Portsmouth, N. H.	30.06	763.5	55	12.8	74	nw.			1		2		nw.					clear.
Essex, Coquimbo, Chili	30.11	764.8	54	12.2	87	ese.			1		2					sm'h	ese.	clear
Franklin, Norfolk, Va.	30.06	763.5	76	24.4	91	ene.	4	1.8			10		e.	0.01	0.3			cloudy.
Galena, N. 11° 10′, W. 26° 25′	29.97	761.2	81	27.2	87	ne.			2		10					mod.	ne.	cloudy.
Hartford, N. 41° 26′, W. 30° 41′*	30.32	770.1	75	23.9	90	s.			3		8		s.	0	0	sm'h		fair.
Independence, Mare Island, Cal.	29.96	761.0	56	13.3	94	sw.	5	2.2			0			0	0			clear.
Iroquois, N. 18° 05′, W. 103° 23′	29.93	760.2	81	27.2	78	ene.			2		5		ne.			sm'h	se.	fair.
Kearsarge, N. 38° 08′, W. 73° 30′	30.09	764.3	74	23.3	76	n.			4		10							hazy.
Lackawana, Callao, Peru*	30.05	763.3	61	16.1	88	ese.			1		10							cloudy.
Lancaster, Villafranca, France*	30.01	762.2	80	26.7	70	ssw.			1		2		calm	0	0	sm'h	s.	fair.
Marion, S. 34° 54′, W. 56° 13′	29.93	760.2	55	12.8	100	calm			0		10		calm	driz.	driz.	sm'h		foggy.
Michigan, Chicago, Illinois	30.13	765.3	66	18.9	84	n.			2		5		n.					fair.
Minnesota, New York, N. Y.	30.19	766.8	62	16.7	66	nne.	1	0.4			0							clear.
Monocacy, N. 37° 27′ E. 126° 33′	29.90	759.4	82	27.8	87	n.			1		5		calm					fair.
New Hampshire, Newport, R. I.	30.08	764.0	63	17.2	62	nne.			4		8		nw.			sm'h		fair.
Nipsic, Villafranca, France*.	30.01	762.2	78	25.6	69	s.			1		0					sm'h		clear.
Onward, Callao, Peru†	30.15	765.8	60	15.6	94	sse.			2		10		nw.			long	w.	cloudy.
Palos, Kobe, Japan*	29.87	758.7	77	25.0	77	ene.			3		10		ne.					cloudy.
Passaic, Washington, D. C.			64	17.8	94	ne.			2		0							clear.
Pensacola, S. 3° 11′, W. 81° 22′*	29.93	760.2	67	19.4	84	s.			3		8		s.	0	0	mod.	s.	fair.
Portsmouth, Gibraltar, Mediterranean*	30.03	762.7	76	24.4	77	wnw.			1		2					sm'h		clear.
Powhatan, Norfolk, Va.	30.08	764.0	75	23.9	90	ene.			1		5							fair.
Quinnebaug, Alexandria, Egypt*	29.83	757.7	80	26.7	91	n.			3		0					sm'h		hazy.
Ranger, Mare Island, Cal.	29.97	761.2	56	13.3	81	sw.			3–5		2			0	0			fair.
Richmond, Yokohama, Japan*	29.94	760.5	77	25.0	73	e.			3		0			0	0			clear.
Saratoga, N. 36° 11′, W. 3° 31′	30.03	762.7	77	25.0	95	nnw.			1–2		2		w.	0	0	sm'h		fair.
St. Louis, League Island, Pa.	30.38	771.6	61	16.1	66	n.			6		2			0	0			clear.
Swatara, N. 18° 35′, E. 111° 37′*	29.56	750.8	83	28.3	83	ssw.			3		5		calm			sm'h		hazy.
Tennessee, Portsmouth, N. H. †	30.15	765.8	62	16.7	72	wnw.	5	2.2			0			0	0			fair.
Vandalia, Portsmouth, N. H*	30.07	763.8	55	12.8	74	nw.			2		0							clear.
Wabash, Boston, Mass.	30.14	765.5	58	14.4	88	wnw.	12	5.4			2		nw.	0	0			clear.
Wachusetts, Fort Wrangle, Alaska †	30.08	764.0	53	11.7	93	ne.			2		10		calm			sm'h		cloudy.
Wyoming, Port Royal, S. C*.	30.05	763.3	73	22.8	95	nw.	4	1.8			10		nw.	0.49	12.4			overcast.
Yantic, Portsmouth, N. H.	30.09	764.3	55	12.8	74	nw.			1–2		0							clear.
MERCHANT MARINE.																		
Allan Line.																		
S. S. Grecian, N. 32° 23′, E. 26° 00′*	29.88	758.9	83	28.3		nw.			4		4		nw.	0	0	mod.	nw.	clear.
S. S. Nova Scotian, N. 52° 00′, W. 27° 24′	29.61	752.1	59	15.0		wsw.			5		5		w.			cross		hazy.
S. S. Polynesian, Liverpool, Eng*	29.76	755.9	69	20.6		nw.			3		6		nw.	1 h'r	1 h'r			cloudy.
S. S. Waldensian, N. 55° 22′ W. 19° 19′ *	29.92	760.0	56	13.3		sw.			5		8		wsw.	sh's	sh's	short	cross	showery.
American Steamship Company.																		
S. S. Indiana, Philadelphia, Pa †	30.07	763.8	73	22.8	95	nne.			2		2		ne.					fine.
S. S. Lord Clive, N. 45° 38′ W. 39° 40′*†	30.05	763.3				sw.			4		7		sw.	0	0	mod.	w.	cloudy.
S. S. Lord Gough, N. 40° 59′ W. 66° 21′	30.00	762.0	65	18.3		nw.			3		2			0	0	sm'h		fair.
S. S. Ohio, N. 39° 51′, W. 58° 54′†	29.87	758.7	75	23.9	?	s.			6		9		s.			r'gh	sw.	squally.
Anchor Line.																		
S. S. Alexandria, Denia, Spain	30.05	763.3	81	27.2		se.			4		0			0	0			
S. S. Bolivia, New York, N. Y. †	29.71	754.6	64	17.8		n.			1		0			0	0			clear.
S. S. Dorian, New York, N. Y *	30.02	762.5																
Atlas Line.																		
S. S. Ailsa, N. 30° 47′ W. 74° 16′†	30.12	765.0	85	29.4	75	s.			2		10		sw.	0	0	mod	sw.	fine.
S. S. Alene, Savanilla, U. S. C.†	29.92	760.0																
S. S. Alpin, N. 18° 10′, W. 74° 00′	30.09	764.3				nne.			2		1		e.	2 h'r	2 h'r		e.	
S. S. Antillas, Petit Goave, Hayti, W. I.†	29.95	760.7	89	31.7		calm			0					0	0			misty.
British Meteorological Office.																		
Auckland, S. 43° 31′, E. 79° 01′	29.56	750.8	48	8.9	92	w.			4		6							blue sky.
S. Baroda, N. 12° 49′, W. 28° 19′	30.00	762.0	79.3	26.3	86	nw.			4		9							d. clouds.
S. S. Basil, N. 2° 50′ W. 34° 18′	30.06	763.5	79.5	26.4	86	sse.			3		3							d. clouds.
S. S. Cipero, N. 25° 05′ W. 48° 54′	30.20	767.1	82.2	27.9	67	ese.			4		4							d. clouds.
Bk. Caldew, S. 38° 20′, E. 26° 40′	30.29	769.4	58	14.4	87	ne.			5		5							d. clouds.
S. S. City of Agra, S. 38° 40′, E. 42° 15′	30.54	775.7	60	15.6	62	sw.			1		8							d. clouds.
S. S. Gordon Castle, N. 48° 18′ W. 27° 40′	30.02	762.5	65	18.3	94	wsw.			6		10							drizzling.
S. S. Humboldt, S. 34° 37′, W. 58° 04′	30.00	762.0	51.3	10.7	90	se.			1		9					sm'h		overcast.
May Hulse, N. 46° 12′, W. 25° 30′	30.19	766.8	65.2	18.4	90	sw.			5		10							drizzling.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH METEOROLOGICAL OFFICE.—Continued.																		
S. S. Minho, S. 29° 31′, W. 48° 42′	29.98	761.5	66.4	19.1	97	n.			6		10							misty.
S. S. Oamarn, N. 22° 00′, W. 31° 00′	30.15	765.8	76.0	24.4	70	ene.			4		5							d. clouds.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 22° 59′, W. 108° 47′ *†	29.86	758.4	77	25.0	90	sw.			3		8		sw.			sm'h		fair.
CUNARD LINE.																		
S. S. Marathon, off Alexandria, Egypt	29.84	757.9	84	28.9		wnw.			3		0			0	0	sm'h	nw.	clear.
S. S. Scythia, Mersey River Eng	29.87	758.7	64	17.8	89	w.			4		5		wnw.	4 h'r	4 h'r			fine.
DONALDSON LINE.																		
S. S. Colina, Glasgow, Scotland †	29.80	756.9				s.			2		1		s.					clear
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Frisia, N. 41° 07′, W. 63° 49′*	29.91	759.7	72	22.2		nw.			5		5		n.	0	0	long	nnw	fair.
S. S. Gellert, N. 42° 06′, W. 51° 41′	29.99	761.7	82	27.8		sw.			5		1		sw.	0	0	long	sw.	fair.
S. S. Herder, New York, N. Y*	29.82	757.4	64	17.8		nw.			2		1		n.	0	0			clear.
S. S. Silesia, N. 53° 57′, W. 36° 57′			53.2	11.8		wnw.			6		10		w.	6 h'r	6 h'r	6	w.	overcast.
S. S. Vandalia, N. 46° 36′, W. 36° 58′ *.	30.12	765.0	64.4	18.0		ssw.			6		10		sw.	0	0	mod.	ssw.	cloudy.
S. S. Westphalia, N. 50° 24′, W. 10° 50′	30.08	764.0	65	18.3	83	nnw.			4		7		nnw.	0	0	mod.	n.	fair.
INMAN LINE.																		
S. S. City of Berlin, N. 40° 30′ W. 71° —′	30.08	764.0				w.			3		2		nnw.	0	0	sm h		clear.
LAMPERT AND HOLT'S LINE.																		
S. S. Archimedes, N. 50° 18′ W. 12° 59′†	30.16	766.1				w.			4		8		nw.	0	0	mod.	wnw.	fine.
S. S. Hevelius, S. 23° 00′, W. 43° 00′ *†	30.34	770.6	70	21.1		ene.			5		4		nne.	0	0			clear.
MALLORY LINE.																		
S. S. City of San Antonio, N. 26° 54′, W. 76° 43′*†.	30.21	767.3				ese.			1		2		ese.	0	0			fair.
S. S. Colorado, New York, N. Y †	30.15	765.8	62	16.7		n.			2		0			0	0			clear.
S. S. San Marcos, N. 25° 31′, W. 85° 25′	29.86	758.4				e.												fine.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Marseilles, France *†	30.08	764.0	76	24.4	82	w.			1		0			0	0			clear.
MERCHANTS EXPRESS LINE.																		
S. S. Freja, N. 43° 22′, W. 58° 56′†	29.94	760.5	73	22.8	90	wsw.			4		5			4 h'r	4 h'r	mod.	w.	fine.
S. S. Hermod, N. 43° 18′, W. 40° 10′†	30.26	768.6	78.8	26.		sw.			3		4		sw.	0	0	mod.	wsw.	fair.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenapp, S. 7° 30°, W. 34° 30′†	29.98	761.5				sse.			4		3		se.	0	0	h'vy	se.	clear.
MORGAN LINE.																		
S. S. Chalmette, N. 31° 50′, W. 78° 39′†	30.07	763.8	80	26.7		wsw.			2		8		nw.	1 h'r	1 h'r	sm'h	ne.	cloudy.
NATIONAL LINE.																		
S. S. Canada, N. 40° 59′, W. 52° 41′†	29.98	761.5				sw.			2		1		sw.	0	0	mod.	wsw.	clear.
S. S. Denmark, London, Eng	29.92	760.0	71	21.7		wsw.			3		10		ssw.	0	0			cloudy.
S. S. England, N. 40° 46′ W. 62° 52′	30.11	764.8				wnw.			4		0			0	0	sli't	w.	clear.
S. S. Erin, N. 50° 54′, W. 21° 52′†	29.98	761.5	56	13.3	94	s.			7		10		w.	5 h'r	5 h'r	r'gh	var.	misty.
S. S. Helvetia, N. 46° 48′, W. 34° 16′	29.90	759.4	71	21.7		sw.			2		fg			0	0	sli't	sw.	misty.
S. S. The Queen, N. 49° 01′, W. 13° 15′	30.15	765.8	59	15.0		wnw.			4		2		calm	0	0	mod.		clear.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 33° 35′, W. 75° 33′ *	30.07	763.8	82	27.8	87	sw.			4		10		sw.	4 h'r	4 h'r	small	sw.	fair.
S. S. City of Puebla, Havana, Cuba, W. I.†	29.97	761.2	85	29.4		ne.			1		1		ne.					fair.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 49° 05′ W. 32° 55′*	29.98	761.5	65	18.3		wsw.			3								w.	foggy.
S. S. Lone Star, N. 24° 40′ W. 83° 18*†′	30.08	764.0	82	27.8		e.			1							sm'h		fair.
NORTH GERMAN LLOYD.																		
S. S. Elbe, N. 45° 22′, W. 51° 27′	29.77	756.2	63.5	17.5	100	sw.			2–3		10			12 h'r	12 h'r	sm'h	sw.	covered.
S. S. Gen. Werder, N. 50° 22′, W. 26° 06′	29.80	756.9				s.			6		10					r'gh	ssw.	foggy.
S. S. Graf Bismarck, S. 4° 10′, W 31° 03′	30.17	766.3	77.9	25.5		ese.			4		2			2 h'r	2 h'r	mod.	se.	clear.
S. S. Habsburg, N. 49° 42′, W. 11° 03′	30.18	766.0	60.8	16.0		w.			4		8		w.	6 h'r	6 h'r	mod.	w.	fair.
S. S. Hohenstaufen, N. 49° 22′, W. 15° 00′	30.11	764.8	62.6	17.0		w.			2		4		w.	0	0	3	w.	fair.
S. S. Leipzig, N. 46° 58′, W. 30° 44′	30.12	765.0	67.0	19.4	100	sw.			6		8		wsw.	0	0	mod.	w.	misty.
S. S. Main, N. 42° 07′, W. 63° 25′	29.93	760.2				w.			3		8?		wnw.	0	0	mod.	w.	clear?
S. S. Ohio, N. 37° 53′, W. 70° 30′	30.00	764.3				n.			4		5		ne.	0	0	mod.	n.	fair.
S. S. Saller, N. 48° 37′, W. 31° 11′	30.01	762.2	59.0	15.0		w.			6		10		w	0	0	r'gh	w.	foggy
S. S. Strassburg, N. 49° 42′, W. 8° 30′	30.12	765.0	64.0	17.8	92	wnw.			4		1		wnw.			mod	wnw.	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 47° 50′, W. 157° 32′†	30.09	764.3	59	15.0	94	sw.			5		10		wsw.			sm'h		foggy.
S. S. Belgic, N. 22° 25′, E. 115° 43′†	29.85	758.2	80	26.7	91	sw.			3		10		sw.	4 h'r	4 h'r	con.	se;sw	light rain.
S. S. Coptic, N. 47° 12′ W. 175° 05′	30.15	765.8	52.0	11.1	96	sw.			4		10		n.	8 h'r	8 h'r	3	n.	foggy.
S. S. Gaelic Hong Kong, China †	29.76	755.9	84	28.9	91	s.			1		0							clear.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga †	30.10	764.5				calm			0		10		ne.	0	0	sm'h		smoky.
S. S. Seminole, N. 40° 18′, W. 72° 15′ †	30.12	765.0	70	21.1	90	nne.			2		1		ne.	0	0	sm'h	ne.	clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 39° 06′ W. 123° 08′ †	29.92	760.0	52	11.1	93	nw.			2		0					mod.	nw.	foggy.
S. S. Oregon, Portland, Oregon †	30.01	762.2	52	11.1	86	calm			0									hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Pedro Bay, Cal†	29.89	759.2	63	17.2	89	calm			0		10		e.			sm'h		cloudy.
S. S. City of Chester, San Francisco, Cal			54	12.2	87	sw.			2		10		w.					cloudy.
S. S. Idaho, San Francisco, Cal †	29.95	760.7	55	12.8	80	s.			4		10		s.	0	0	sm'h		cloudy.
S. S. State of California, San Francisco, Cal †	29.95	760.7	53	11.7	100	sw.			3		6		sw.					cloudy.
S. S. Victoria, Astoria, Oregon †	29.94	760.5	53	11.7	93	se.			3					0	0	sm'h		hazy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 18° 01′, E. 171° 58′	29.86	758.4	71	21.7	90	e.			4		10			1 h'r	1 h'r	long	e.	misty.
S. S. City of New York, Sydney, N. S. W†	30.15	765.8	57	13.9	75	s.			4		8		s.	6 h'r	6 h'r			cloudy.
S. S. City of Pekin, N. 35° 11′, E. 139° 46′†	30.17	766.3	74	23.3	76	ne.			3		2		ne.	0	0	sm'h		clear.
S. S. City of Tokio, N. 35° 20′, E. 139° 39′†	30.08	764.0	75	23.9	86	e.			2		0			0	0			fine.
S. S. Colima, N. 9° 49′, W. 85° 39′†	29.92	760.0	79	26.1	82	nne.			3		6		ene.	0.11	2.8	small	s.	fair.
S. S. Colon, N 13° 46′ W. 76° 47′†	30.00	762.0	82	27.8		e.			3		9		ene.	0	0	sm'h	e.	cloudy.
S. S. Costa Rica, N. 23° 06′, W. 110° 30′ *	29.85	758.2	78	25.6	95	nw.			2		5		nw.	3 h'r	3 h'r	sm'h		fair.
S. S. Grenada, N. 18° 08′, W. 103° 14′†	29.91	759.7	76	24.4	86	nw.			2		5?		nw.	0	0		wsw.	clear?
S. S. Zelandia, S. 31° 01′, E. 179° 14′	30.43	772.9	50	10.0	93	sw.			3		10		s.			r'gh	s.	cloudy.
QUEBEC STEAMSHIP CO.																		
S. S. Muriel, Martinique, W. I	30.04	763.0	82	27.8		calm			0		10			0	0	sm'h		overcast.
RED D LINE.																		
S. S. Caracas, N. 29° 58′, W. 68° 42′*†	30.20	767.1				s.			1		0			0	0		se.	fine.
S. S. Valencia, Curacoa, Venezuela*†	30.14	765.5	84	28.9	79	e.			3		3		e.	0	0	sm'h	e.	fine.
RED STAR LINE.																		
S. S. Belgenland, N. 39° 10′, W. 71° 50′†	30.19	766.8	73	22.8	?	ne.			5		6		nne.	0	0	mod.	n.	
S. S. Pennland, New York, N. Y	30.09	764.3				n.			5		10		se.	0	0			fine.
S. S. Rhynland, N. 45° 16′, W. 40° 00′	30.23	767.8	77	25.0	91	sw.			6		3		sw.	0	0	chop	sw.	fair.
S. S. Switzerland, N. 47° 05′, W. 27° 17′†	30.10	766.8				ssw.			5		10		ssw.	4 h'r	4 h'r	long	wnw.	misty.
S. S. Vaderland, Antwerp, Belgium	29.87	758.7	74	23.3	70	ssw.			1		10		sw.	0	0			overcast.
S. S. Waesland, N. 46° 26′ W. 35°, 47′	30.08	764.0	72	22.2	90	sw.			5		10		sw.	0	0	mod.	sw.	hazy.
ROTTERDAM LINE.																		
S. S. Edam, Amsterdam, Holland	29.87	758.7	69.5	20.8	92	s.			6		7		s.	0	0			cloudy.
S. S. Schiedam, N. 41° 49′, W. 00° 59′	29.98	761.5	71.8	22.1	73	nnw.			4		3		ne.	0	0	mod.	n.	clear.
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, Kingston, Jamaica, W. I	30.03	762.7	80	26.7		calm			0		7		ne.	0	0			cloudy.
STATE LINE.																		
S. S. State of Florida, N. 52° 09′, W. 22° 28′	29.78	756.4	58	14.4		sw.			6		10			12 h'r	12 h'r	mod.	sw.	raining.
S. S. State of Georgia, N. 41° 31′ W. 63° 05′†	29.94	760.5	63	17.2		wnw.			4		0			0	0	sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
THINGVALLA LINE.																		
S. S. Thingvalla, Brooklyn, N. Y†	30.38	771.6	66.2	19.0		ene.			2		3		ene.	0	0			clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 43° 21′, W. 35° 38′	30.29	769.4	77	25.0					2–3		1			0	0	2	wnw.	
WHITE STAR LINE.																		
S. S. Adriatic, New York, N. Y	30.19	766.8	64	17.8	97	n.			2		2		n.	0	0			blue sky.
S. S. Baltic, N. 44° 37′, W. 54° 06′	29.82	757.4	66	18.9	100	w.			2		10		sw	4 h'r	4 h'r	1	w.	misty.
S. S. Celtic, N. 48° 51′ W. 28° 53′†	30.03	762.7	65	18.3	94	wsw.			5		10		w.	8 h'r	8 h'r	mod.	sw	misty.
S. S. Germanic, N. 51° 22′, W. 15° 22′†	30.21	767.3	57	13.9		wsw.			4		9		wsw.	0	0	mod.	nw.	overcast.
S. S. Republic, Liverpool, Eng†	30.10	764.5	63	17.2	83	wnw.			4		8		wnw.	0	0			d. clouds.
WILSON LINE.																		
S. S. Otranto, N. 50° 20′, W. 25° 07′†	30.03	762.7	62	16.7		s.			5		10		s.			long	s.	hazy.
S.S. Romano, New York, N. Y	30.09	764.3	68	20.0		n.			1		0			0	0			clear.
S. S. Salerno, Humber, Eng*	29.75	755.6	62	16.7		se.			6		10		s.	4 h'r	4 h'r	mod.	sw.	raining.
WINSOR LINE.																		
S. S. Catherine Whiting, Providence' R. I.†	30.12	765.0	66	18.9		n.			1		0			0	0			
MISCELLANEOUS																		
Bk. Adelaide, N. 26° 37′. W. 52° 31*†	30.29	769.4	85	29.4		e.			5		1		ese.	0	0	mod	ese.	fair.
Bk. Alpha, Flensburg, Prussia†	29.99	761.7	73	22.8		se.			2		4		se.	0	0	sm'h		fair
Schr. Anna A. Holton, N. 32° 53′ W. 69 44′†	30.09	764.3	83	28.3		sw.			3		3		wsw.	1 h'r	1 h'r	mod.	sw.	clear.
Bk. Anna Thormann, S. 22° 01′, E. 107° 35′	30.15	765.9	68.4	20.2	68	sw.			4		3 k		sw.	0	0	long	sw.	fair.
S. S. Antonio Lopez, N. 41° 55′ W. 18° 28′*	30.38	771.6	66	18.9	73	ne.			1		4			2 h'r	2 h'r	sm'h		fair.
Bk. Aureola, N. 13° 49′ W 46° 56′*†	30.15	765.8	83	28.3		ene.			2		1		ne.	1 h'r	1 h'r	mod.	ne.	clear.
Bk. B. F. Watson, N. 12° 09′ W. 34° 11′†	30.00	762.0	82	27.8		ene.			4		2			2 h'r	2 h'r	mod.	e.	fine
Bk Bergenseren, N. 41° 11′ W. 24 20′†	30.31	769.9				ese.			2		0			0	0	2	nw.	clear.
Bk Bremen, N. 48° 04′ W. 35° 36′*†	30.02	762.5				ssw.			6		10		ssw.	3 h'r	3 h'r	hv'y	ssw.	foggy.
S. S. Burswell, N 49° 46′, W. 10° 29′*†	30.16	766.1	72	22.2		wnw.			3		5		w.	1 h'r	1 h'r	slight	w.	fine.
Bk. Cato, Bornholm, Sweden*†	30.32	770.1				n.			2									cloudy.
Bk. Celestina, N. 19° 10′, W. 29° 40′*†	30.06	763.5				nne.			2		6		ne.	0	0	sm'h	ne.	clear.
S. Dora, S. 19° 15′ W. 33° 50′†	30.36	771.1	76.1	24.5		ese.			5–6		4 k		ese.	rain	rain	r'gh	se.	squally.
Schr. Edith R. Seward, N. 38° 26′, W. 76° 18′*†	30.10	764.5	73	22.8		ssw.			2		2		w.	0	0			clear.
S. E. J. Spicer, N. 43° 06′, W. 43° 15′*	30.16	766.1	79	26.1		sw.			6		2		wsw.	0	0	mod.	wsw.	fair.
S. Enoch Train, Off Texel, Netherlands†	30.15	765.8				sse.			3		3		sse.	0	0	sm'h		fine.
Bk. Essex, N. 12° 04′. E. 46° 09′*†	29.75	755.6	90	32.2		n.			1		0			0	0	sm'h	sw.	clear.
Bk. Franklin, N. 57° 10′, E. 11° 50′*†	30.32	770.1				n.			2		0			0	0	sm'h		fair.
Bk. Freya, N. 40° 35′, W. 50° 59′			80	26.7		s.			5		2		sw.	2 h'r	2 h'r	mod.	sw.	fair.
S. Glendon, N. 34° 00′ W. 47° 36′†	30.27	768.8	86	30.0		ese.			1		9		se.	0	0	sm'h		fair.
Bk. Godfrey, N. 23° 16′, W. 23° 45′	30.06	763.5	76.1	24.5	63	nne.			5		5			1 h'r	1 h'r	sm'h	nne.	fair.
S. Grecian, N. 9° 12′, E. 111° 45′*†	29.87	758.7	81	27.2		s.			2		1		ssw.	0	0	mod.	w.	clear.
Bk. Gronsvaer, N. 12° 00′ W. 30° 00′†	29.98	761.5				ene.			5		2		e.	1 h'r	1 h'r	mod.	e.	fair.
Bk. Hattie G. McFarland, Bath, Maine*†	30.06	763.5	59	15.0		wnw.			3		0			0	0			clear.
Schr. Hattie Weston, N. 31° 53′ W. 72° 56′*†	30.02	762.5	85	29.4		sw.			2		8		sw.	½ h'r	½ h'r	mod	w.	fair.
Bk. Heinrich & Tonio, N. 49° 57′, W. 3° 23′*†	30.28	769.1	61	16.1		se;w			3		5		w.	0	0	sm'h		fair.
Schr. Henry Denison, N. 29° 45′, W. 70° 26′†	30.08	764.0									2		sw.			light	se.	fair.
S. Ivy, S. 51° 54′, W. 84° 23′†	29.81	757.2	39	3.9		w.			2		9		w.	0	0	high	sse.	threatening
S. Ismir, N. 8° 00′ E. 108° 25′†	29.90	759.4				wsw.			2		6		wsw.	0	0	sm'h		fine.
Schr. Jennie N. Huddell, Lynn, Mass†	30.07	763 8	63	17.2	78	nw.			2		0			0	0			clear.
Bg. John Wesley, Guantanamo, W. I†	29.89	759.2				n.			1		3			0	0			fair.
Bk. Joseph A. Ropes, S. 33° 48′, E. 37° 34′*†.	30.51	774.9	61	16.1	77	e.			4		6		e.	0	0	mod.	sse.	fair.
Bkt. Josephine, Havana, Cuba, W I†	30.02	762.5	82	27.8	83	ne.			1		2			1 h'r	1 h'r			fair.
S. S. Lamperts, N. 36° 22′, E. 20° 31′*	29.87	758.7	77.0	25.0	77	n.			6		0							misty.
S. S. Laurel, Key West, Fla.†	30.07	763.8	83	28.3		ne.			1		10		ne.	5 h'r	5 h'r			cloudy.
S. S. Madrid, N. 55° 55′, W. 16° 57′*†	30.00	762.0	55	12.8		wsw.			4		8		wsw.	0	0	irreg.	wnw.	overcast.
Schr. Maggie Abbot, N. 19° 26′, W. 72° 43′†	29.99	761.7									2		e.	2 h'r	2 h'r			
S. S. Malabar, N. 38° 08′, W. 140° 00′†	30.32	770.1				n.			2		2			0	0	sm'h		¼ covered.
S. Minnie N. Gerow, N. 36° 00′, W. 5° 50′*†	30.00	762.0				e.			6		2		ese.			sm'h	e.	fair.
S. M. P. Grace, S. 17° 52′, W. 104° 45′*	30.11	764.8	70	21.1		se.			3				se.	0	0	long	sw.	squally.
Bk. National Eagle, N. 45° 30′ W. 13° 25′†	30.28	769.1				nnw.			3		2		nnw.	1 h'r	1 h'r	mod.	nw.	fair.
S. S. Nebo, N. 36° 52′, W. 25° 30′*†	30.05	763.3				n.			2		1		n.	0	0	long	n.	clear.
S. Oracle, N. 35° 17′, W. 48° 40′*	30.26	768.6	79	26.1	95	sse.			1		3 k					mod.	s.	clear.
S. Orealla, N. 11° 06′, W. 31° 26′*	29.95	760.7				nne.			4		3		nne.	0	0	long	sw.	clear.
Bk. Rosebud, S. 28° 49′, E. 59° 38′*†	30.25	768.3	68	20.0		nne.			5		0			0	0	h'vy	nne.	
S. St. Francis, N. 35° 06′ W. 39° 59′†	30.36	771.1	82	27.8		ese.			1		4		ene.	0.25	6.3	sm'h	ese.	squally.
Schr. S. B. Hubbard, Gardiner, Me†	30.09	764.3	55	12.8		nw.			4		0			0	0			fine.
Bk. Sunbeam, N. 39° 25′ W. 23° 25′†	30.44	773.2	74	23.3	90	ene.			3		8		ne.	0	0	sm'h		cloudy.
S. S. Sunbeam, Rotterdam, Holland	30.00	762.0	72	22.2	67	sw.			3		8		sw.					d. clouds.
S. Sovereign Of The Sea, S. 55° 40′ W. 65° 24′*†	28.40	721.3	37	2.8	90	sse.			2		9			0	0	long	sw.	cloudy.
U.S. F. C. S. S. Fish Hawk, Wood's Holl, Mass†	30.25	768.3	60	15.6	82	n.			4		2		n.	0	0			clear.
Schr. Victor Ping, N. 17° 50′, W. 67° 27′*†	30.03	762.7				ene.			3		6		ene.			mod.	ene.	cloudy.
Bk. Vincenzo Accame, N. 40° 28′, W. 62° 26′†	30.20	767.0	71.6	22.0		n.			6		0							clear.
Schr. Viola Reppard. Savannah, Ga†	30.02	762.5	80	26.7		s.			2		9		calm	0	0			cloudy.
Bk. Wandering Jew, N. 40° 20′ W. 70° 54′*†	30.04	763.0	72	22.2		ne.			5		5		e.	0	0	short	ne.	
Bg. Wauburn, N. 24° 00′, W. 74° 00′*†	30.00	762.0				ese.			5		4		e.			sm'h	e.	¼ covered.
Bk. Warden Law, N. 51° 59′, W. 12° 14′*	30.17	766.3				wsw.			4		6		w.	0	0	sm'h	wsw.	fine.
Wm. Woodbury, N. 57° 42′, E. 0° 53′*	29.84	757.9	66	18.9	64	sw.			4		6		sw.			sm'h	sw.	foggy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 20, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.03	762.7	82.0	27.8	80	sw			1		3			0	0	pretty fair	Bouvier.
Algiers			30.03	762.7	77.0	25.0	87	n.			2		0			0	0	clear	Thève.
La Galle			30.04	763.0	79.5	26.4	59	ene.			4		1			0	0	pretty fair	Fonfrède.
Tunis			30.06	763.4															Jacques.
Saida			30.08	764.1															Peres.
Tebessa			30.10	764.6	81.0	27.2	36	w.			1		0			0	0	clear	Rigaud.
Geriville					93.6	34.2	12	n.			2		7			0.236	6.0	very fair	Lonchamp.
Laghount			30.12	765.0	96.8	36.0	33	e.			1		1			0	0	fair	Abraham.
Biskra			30.11	764.9	93.9	34.4	37	nw.			1		0			inap.	inap.	fair	Malau.
Australian.																			
Melbourne, Victoria	29.98	761.5	30.07	763.8	50.5	10.3	82	nne.	6	2.7			0			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.41	747.0	29.93	760.3	77.0	25.0	55	sw.			1		3			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.06	738.0	29.79	756.7	71.6	22.0	66	w.	9.8	4.4			4			0.165	4.2		Dr. Wierzbiski.
Eperies	28.95	735.4	29.79	756.7	73.4	23.0	56	nw.			1	3 cs	0	s.		0.154	3.9		Julius Mikolik.
Gratz	28.68	728.4	29.88	759.0	72.1	22.3	70	s.			2		2			0	0		Andreas Rospini.
Hermannstadt	28.44	722.3	29.82	757.4	67.6	19.8	67	wnw.			2		7			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.61	726.8	29.91	759.7	68.7	20.4	68	nw.			1		6			0.102	2.6	cloudy	The Staff.
Lemberg	28.78	731.0	29.74	755.3	64.6	18.1	87	nw.			2		10			0.610	15.5		Dr. T. Stanecki.
Pola	29.89	759.2	30.00	761.9	80.6	27.0	58	sse.			2		2			0	0		I. R. Hydrographic Office.
Szathmar	29.34	745.2	29.79	756.6	68.7	20.4	85	n.			1		8			0.425	10.8	showery	Joseph Midlinszay, S. J.
Szegedin	29.63	752.5	29.89	759.3	74.1	23.4	58	nw.			2		2			0	0		Karl Stancel.
Trieste	29.90	759.5	30.00	762.1	77.0	25.0	50	calm			0		2			0	0		Royal Academy.
Vienna	29.24	742.8	29.94	760.4	72.3	22.4	58	nw.			1		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.63	752.6	29.72	754.9	59.5	15.3	68	s.	19	8.5			3			0.040	1.0	squally	W. Boswell
Armagh, Observatory	29.51	749.5	29.74	755.4	56.1	13.3	95	s.	18	8.0			10					gloomy	S. Call.
Bidston, Liverpool Obs'y			29.80	758.4	64.3	17.9	29	sw.	20	8.9			9					overcast	John Hartnup.
Bolton, Sharples	29.34	745.2	29.86	758.4	60.3	15.7	70	ssw.	18	8.0			9					overcast	Thomas Mackereth.
Bradford, Yorkshire																0.15	3.8		McLandsborough & Preston
Bridgetown, Barbadoes	29.98	761.5	30.01	762.2	84.0	28.9	68	ne.			2		0					gloomy	Corpl. J. Surgenor, A. H.C.
Cardington			29.90	761.0	68.0	20.0	69	w.			0.6		6					d. clouds	John McLaren.
Chatham, School M. E.	29.88	758.9	30.01	762.2	67.7	19.8	60	sw.			1		5			blank	blank	d. clouds	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.80	756.9	30.02	762.5	63.1	17.3	67	ssw.			5		10					overcast	The Staff.
Fort Napier, Natal	27.71	703.8	29.93	760.2	75.0	23.9	13	calm			0		0					blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.73	755.1	29.96	761.0	76.0	24.4	90	w.			6		10						Sergt. John Robinson.
Gibraltar, Mediterranean	30.02	762.5	30.07	763.8	79.0	26.1	84	w.			4		2					blue sky	Corpl. F. Norris, A. H.C
Glasgow, Observatory	29.42	747.3	29.63	752.6	57.4	14.1	69	ssw.			5		8 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.82	757.4	29.99	761.7	66.4	19.1	64	wsw.			1		7					d. clouds	The Staff.
Guernsey	29.80	756.9	30.10	764.5	62.4	16.9	71	wsw.			2		7					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.96	761.0	29.99	761.7	67.3	19.6	50	sw.	16	7.2			7					d. clouds	The Staff.
Leicester, Museum	29.68	753.9	29.94	760.5	65.0	18.3	55	ne.			1		7					d. clouds	J. C. Smith.
Malta, Mediterranean	29.93	760.2	30.00	762.0	80.2	26.8	89	ne.			2		1					blue sky	W. D. Ballau.
Nassau, Bahamas	30.11	764.8	30.15	765.8	85.0	29.4	68	e.			2		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.41	747.0	29.92	760.0	65.5	18.6	66	sw.			5		7					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.75	755.6	29.98	761.5	65.1	18.4	52	sw.			3		3					blue sky	The Staff.
Plymouth	29.94	760.5	30.02	762.5	64.2	17.9	73	s.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.64	752.8	59	15.0	70						5					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.79	756.7	29.86	758.4	84.8	29.3	42	ne.			1		2					d. clouds	W. H. Lyne.
Sheffield	29.62	752.3	29.89	759.2	68.1	20.1	66	sw.			3		2			0.07	1.8	d. clouds	W. F. Cooper.
Stilloth Rectory	29.75	755.6	29.78	759.4	59.2	15.1	75	sw.			5		10			0.343	8.7	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.88	758.9	63.8	17.7	50	sw.	18	8.0			6					d. clouds	I. New.
Stratfield Turgiss					69.4	20.8	52	sw.			3		5					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.98	761.5	29.99	761.7	66	18.9	73	sw.			0		10					gloomy	W. Newcombe.
Valencia, Observatory	29.76	755.9	29.78	756.4	62.4	16.9	83	wsw.	27	12.1			10					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.09	764.3	30.13	765.3	57	13.9	75	nw.	6	2.7		0	2 s		n.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.10	766.1	30.22	767.6	52	11.1	86	nw.	7	3.1		0	0			0.01	0.3	clear	G. A. Blair.
Father Point, Quebec*	30.24	768.1	30.26	768.6	50	10.0	83	w.	10	4.5		2 k	0	nw.		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.22	742.2	30.04	763.0	53	11.7	86	s.	9	4.0		0	8 ks		w.	0	0	threatening	James Stewart.
Halifax, N. S*	30.04	763.0	30.16	766.1	54	12.2	83	w.	4	1.8		5 k	0	nw.		0	0	fair	A. Allison.
Kingston, Ontario*	29.98	761.5	30.31	769.9	55	12.8	93	w.	1	0.4		2 cs	0			0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	30.08	764.0	30.28	769.1	60	15.6	72	ne.	3	1.3		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.60	751.8	30.30	769.6	52	11.1	93	e.	3	1.3		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.62	752.3	30.31	769.9	56	13.3	94	calm	0	0		4 ck	0	nw.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.65	753.1	30.28	769.1	64	17.8	78	e.	2	0.9		2 c	5 k	nw.	w.	0	0	cloudy	M. Payne.
Quebec, Quebec*	29.94	760.5	30.26	768.6	50	10.0	86	ne.			1	0	hz.			0.05	1.3	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.85	758.2	30.31	769.9	51	10.6	93	w.	1	0.4		0	fg			0	0	light fog	W. H. McIntyre.
Saugeen, Ontario*	29.55	750.6	30.26	768.6	56	13.3	86	se.	8	3.6		2 cs	0			0	0	clear	
St. Andrews, N. B	30.13	765.3	30.18	766.6	53	11.7	73	n.	5	2.2		0	0			0	0	clear	
Sydney, C. B*	30.04	763.0	30.10	764.5	58	14.4	74	w.	4	1.8			10 ks		nw.	0	0	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.95	760.7	30.33	770.4	55	12.8	93	calm	0	0		5 ck	5 k	w.		0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.09	764.3	30.15	765.8	54	12.2	90	calm	0	0		5 ck	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.89	733.8	30.39	771.9	52.0	11.1	86	wsw.			1	5 k	0	wsw.		0	0		Wm. Wylie.
St. Johns, Newfoundland	29.91?	759.7?	30.15?	765.8?	61	16.1	77	ne.	1	0.4		5 k	5 s			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.05	763.3	30.07	763.8	70	21.1	69	wsw.	10.5	4.7		0	0			0	0	light haze	C. Hansen.
Cape Town, C. G. H. Obs'y	30.06	763.5	30.09	764.3	75.9	24.4	40	w.	18	8.0		4	6			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Chinese (*Sub-series*).																			
Hankow	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.79	756.7	29.82	757.4	76.1	24.5	91	ene.	3.8	1.7	...	...	0	...	...	0	0	clear	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.77	756.2	29.82	757.4	68.4	20.2	80	s.	9	4	...	...	5	...	...	...	...	...	Oversergent Fischer.
Fanöe	29.71	754.6	29.73	755.1	71.8	22.1	72	sse.	...	...	2	...	7	...	...	...	...	...	Overloerer Lauridsen
Godthaab, Greenland	29.81	757.1	29.85	758.2	38.3	3.5	92	ne.	...	...	2	...	6	...	...	0	0	...	S. Kleinschmidt.
Ivigtut	29.76	756.0	29.78	756.5	41.2	5.1	...	nw.	...	...	2	...	10	...	...	...	...	foggy	
Stykkisholm, Iceland	29.46	748.2	29.50	749.3	42.8	6.0	87	e.	...	...	2	...	8	...	...	...	...	...	A. O. Thorlacius.
Thorshavn	29.71	754.7	29.75	755.6	55.2	12.9	88	s.	4	2	...	...	8	...	...	...	...	...	Overloerer Bergh.
Vestervig	29.68	753.8	29.77	756.1	71.2	21.8	63	se.	...	...	2	...	4	...	...	...	...	...	Loearer Oesterbol.
French.																			
Agen, Normal School	29.55	750.5	30.19	766.7	65.1	18.4	88	wnw.	...	...	1	...	8	...	w.	0	0	very cloudy	M. Labroue, Director.
Alençon, Normal School	29.60	751.9	30.15	765.9	65.5	18.6	66	w	...	...	1	...	k	w.	w.	0.08	2.	...	M. Nicot, Director.
Arras, Engineer School	29.80	756.9	30.05	763.3	63.7	17.6	61	ne.	...	...	6	...	k	...	...	0	0	...	M. Fénéon, Command't.
Avignon, Normal School	29.92	760.0	30.00	762.0	84.9	29.4	46	ne.	...	...	1	...	...	...	...	0	0	...	M. Giraud, Director.
Bar-sur-Seine	29.54	750.4	30.09	764.2	67.3	19.6	49	w.	...	...	1	...	8	...	w.	0.118	3.0	very cloudy.	M. Saillard, Director.
Beauvais, Normal School	29.81	757.2	30.07	763.8	66.6	19.2	58	wnw.	...	...	2	...	5	...	nw.	0.083	2.1	cloudy	M. Frère Eugène Maris.
Besançon, Normal School	29.30	744.3	30.19	766.7	72.3	22.4	84	sw.	...	...	1	...	10	...	se.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.88	758.9	30.13	765.4	70.9	21.6	55	w.	...	...	1	...	8	...	w.	0.016	0.4	very cloudy.	M. Rayet, Director.
Bourges, Normal School	29.52	749.8	30.00	763.6	67.1	19.5	63	sw.	...	...	...	...	...	...	sw.	0.47	12.	...	M. Malet, Director.
Brest, Naval Observatory	29.90	759.4	30.14	765.5	68.0	20.0	64	sw.	...	...	2	...	8	...	sw.	0	0	...	M. de Kermaree, Dir.
Caen, Normal School	30.03	762.8	30.11	764.8	52.5	11.4	85	w.	...	...	1	...	5	...	w.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.70	754.4	30.02	762.4	68.0	20.0	83	w.	...	...	2	...	2	wsw.	w.	0.071	1.8	slightly cl'd'y	M. Jadot, Director.
Charleville, Normal School	29.51	749.5	30.01	762.2	67.3	19.6	53	w.	...	...	4	...	5	...	...	0.16	4.	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.74	730.1	30.07	763.7	67.6	19.8	85	e.	...	...	1	...	10	...	...	0.343	8.7	covered	M. Allnard, Director.
Cluny, Normal School	29.26	743.3	30.10	764.4	65.1	18.4	77	nw.	...	...	...	...	10	...	sw.	0	0	...	M. de Villemontée, Dir.
Commercy, Normal School	28.22	716.8	30.07	763.8	67.3	19.6	55	w.	...	...	3	...	kn	w.	w.	0.043	1.1	...	Dr. Coulet, Director.
Gap, Normal School	27.42	696.5	29.83	757.6	80.6	27	37	n.	...	...	4	0	4 kn	...	n.	0	0	...	M. Jeangirard, Director.
Grénsque, du Rhone	28.91	734.2	29.97	761.2	84.6	29.2	47	nw.	...	...	2	...	1	...	nw.	0	0	...	M. Klua, Director.
Grenoble, Normal School	29.22	742.2	29.90	760.9	77.7	25.4	71	nnw.	...	...	3	c	0	...	...	0	0	...	M. Ablard, Director.
Lamballe, Normal School	...	...	...	...	68.7	20.4	74	nw.	...	...	2	...	10	...	nw.	...	...	covered	M. Ollitrault, Director.
Lescar, Normal School	29.49	749.0	30.04	763.1	66.6	19.2	79	w.	...	...	1	...	10	...	...	0.276	7.0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	30.07	763.7	30.17	766.3	65.3	18.5	84	sw.	...	...	2	...	8	nw.	sw.	0.008	0.2	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.04	737.7	30.08	764.0	68.5	20.3	91	nne.	...	...	1	...	10	...	wsw.	0.098	2.5	raining	M. André, Director.
Mans, Normal School	29.84	757.8	30.14	765.6	63.9	17.7	54	nw.	...	...	3	...	5	...	w.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.74	755.4	30.00	762.1	80.6	27.0	54	wsw.	...	...	2	...	3	...	w.	0	0	...	M. Stephan, Director.
Montlouis	25.01	635.2	29.85	758.2	63.5	17.5	87	sw.	7.4	3.3	...	...	10	w.	...	1.244	31.6	stormy	M. Cave, for Dr. Fines.
Montpellier, Normal School	29.77	756.2	29.89	759.3	68.7	20.4	89	nnw.	...	...	2	...	0	...	...	0	0	clear	M. Gulzin, Director.
Nancy, Normal School	29.27	743.4	30.03	762.8	69.1	20.6	61	ssw.	...	...	1	0	2 k	...	...	0	0	slightly cl'dy	M. Hasse, Director.
Nantes, Observatory	30.02	762.6	30.19	766.8	70.2	21.2	44	wnw.	...	...	1–2	0	4 k	...	wnw.	0.024	0.6	...	M. Larocque, Director.
Perpignan, Observatory	29.97	761.2	30.07	763.8	80.8	27.1	51	ne.	13.0	5.8	...	...	9	...	w.	0.291	7.4	...	Dr. Fines, Director.
Pic-du-Midi, Summit	21.44	544.5	...	...	47.1	8.4	...	sw.	...	...	1	...	10	...	sw.	0.228	5.8	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.98	736.0	29.99	761.7	80.6	27	56	n.	...	...	1	...	0	...	...	0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.30	642.5	...	...	52.3	11.3	99	wnw.	...	...	2	...	10	...	...	0.071	1.8	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	30.11	764.8	30.14	765.6	71.2	21.8	86	w.	...	...	1	...	2	...	w.	0	0	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.95	760.6	30.15	765.9	67.3	19.6	57	nw.	...	...	1	...	5	...	e.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.00	711.3	30.06	763.4	72.0	22.2	63	nw.	...	...	1	...	1	...	w.	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.02	762.4	30.06	763.6	67.6	19.8	51	w.	...	...	2	...	5	e.	...	0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.94	760.5	30.11	764.7	66.7	19.3	58	s.	...	...	1	...	6	...	wnw.	0.322	8.2	...	M. Renou, Director.
Toulouse, Observatory	29.47	748.4	30.19	766.9	73.0	22.8	76	nnw.	...	...	2	...	8	nw.	...	0.028	0.7	very cloudy	M. Baillaud, Director.
Tours	29.97	761.1	30.13	765.4	69.8	21.0	49	wsw.	...	...	1	...	1 k	w.	w.	0.031	0.8	clear	M. de Tastes.
Versailles, Observatory	29.63	752.5	30.16	766.0	65.8	18.8	56	nw.	...	...	1	...	...	...	...	0.016	0.4	...	Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.83	757.7	30.12	765.1	63.9	17.7	62	nw.	...	...	1	...	7	...	wnw.	0.587	14.9	...	M. Marié Davy, Director
German.																			
Ansbach	28.55	725.2	29.95	760.8	68.4	20.2	58	w.	...	...	4	...	5	w.	...	0.031	0.8	...	Prof. Jnedt.
Bamberg	29.12	739.6	29.97	761.3	68.9	20.5	70	w.	...	...	3	0	3 k	...	w.	0.319	8.1	...	Prof. Dr. Hoh.
Berlin	29.66	753.3	29.83	757.7	71.6	22.0	66	w.	...	...	2	...	10	...	...	0.039	1.0	...	Prof. Dr. Arndt.
Breslau	29.41	746.9	29.93	760.3	73.2	22.9	47	wsw.	...	...	1	...	3	...	...	0	0	...	Royal University Obs'y.
Carlsruhe	29.58	751.4	30.01	762.3	69.4	20.8	50	sw.	...	...	2	...	4	sw.	...	0	0	...	Albert Senz.
Cassel	29.18	741.2	29.89	759.3	62.2	16.8	77	nw.	...	...	6	...	10	sw.	...	0.034	10.1	thnd'r storm	Dr. H. Möhl.
Frankfort-on-the-Main	29.60	751.9	29.96	760.9	70.5	21.4	55	wsw.	...	...	2	...	7	...	...	0.157	4.0	...	Physical Society.
Friedrichshafen	28.62	726.9	30.02	762.4	67.3	19.6	83	se.	...	...	1	...	10	sw.	...	0.319	8.1	rainy	Wilhelm, Chief Tel.
Hamburg	29.73	755.2	29.82	757.5	64.6	18.1	80	sw.	...	...	3	...	10	...	...	0.024	0.6	...	E. Preller.
Kiel	29.77	756.2	29.79	756.6	66.6	19.2	77	sw.	...	...	2	...	10	...	...	0	0	...	Prof. Dr. G. Karsten
Leipsic, Astron'l Obs'y	29.49	749.0	29.90	759.4	68.0	20	93	nw.	...	...	2	...	5	wnw.	...	0	0	...	H. Leppig, Asst.
Magdeburg	29.68	753.8	29.86	758.4	69.1	20.6	69	wnw.	...	...	2	3 c	0	sw.	...	0	0	...	Dr. Assmann.
Memel	29.83	757.7	29.88	758.9	73.2	22.9	60	nw.	...	...	3	0	1 k	...	...	0	0	...	Issermann.
Munich	28.23	717.0	30.10	764.4	58.8	14.9	91	nw.	...	...	3	...	10	w.	...	0.213	5.4	thnd'r storm	Dr. C. Lang.
Neufahrwasser	29.84	758.0	29.86	758.4	71.6	22	63	ne.	...	...	1	...	1	...	...	0	0	...	A. Lothes.
Neustadt, Palatinate	29.44	747.8	29.97	761.1	66.7	19.3	63	w.	...	...	1	...	3	wsw.	...	0.354	9.0	...	Dickuether.
Stuttgart	29.05	738.1	29.92	760.0	69.4	20.8	55	w.	...	...	1	...	6	w.	...	0	0	...	Prof. Dr. Schoder.
Wustrow	29.80	757.0	29.83	757.7	74.5	23.6	72	se.	...	...	2	0	8 k	...	s.	0	0	...	Profs. Brandes & Reimer
Greek.																			
Athens	29.52	749.9	29.89	759.2	85.1	29.5	...	ne.	...	...	2.0	c	5 k	...	...	0	0	...	Schmidt & Wourlisch
Indian.																			
Kurrachee	29.69	754.0	29.74	755.3	81.1	27.3	82	wsw.	25.0	11.2	...	...	9	w.	...	0	0	gloomy	
Deesa	29.22	742.0	29.68	753.9	88.6	31.4	51	sw.	12.0	5.4	...	...	4	ese.	...	0	0	d. clouds	
Bombay	29.77	756.2	29.81	757.2	83.6	28.7	75	wnw.	15.0	6.7	...	...	4	w.	...	0.05	1.3	d. clouds	
Poona, Yarrowda	27.94	709.7	29.80	756.9	77.3	25.2	70	w.	32.0	14.3	...	...	8	w.	w.	0	0	overcast	
Trichinopoly	29.49	749.0	29.76	756.0	92.5	33.6	44	nnw.	1.0	0.4	...	...	10	...	...	0	0	overcast	
Bellary	28.20	717.9	29.71	754.5	87.0	30.6	46	w.	11.1	5.0	...	...	10	...	...	0	0	gloomy	
Belgaum	27.27	692.8	29.83	757.7	71.3	21.8	81	w.	9.0	4.0	...	...	7	ne.	nw.	0	0	hazy	
Lahore	28.87	733.3	29.59	751.5	95.2	35.1	46	se.	2.0	0.9	...	...	4	...	...	0	0	d. clouds	
Roorkee	28.74	730.1	29.62	752.4	86.8	30.4	69	calm	2.1	0.9	...	...	7	...	...	2.1	53.3	...	
Agra	29.10	739.1	29.66	753.3	82.2	27.9	85	e.	4.0	1.8	...	...	8	...	n.	0.30	7.6	d. clouds	
Nagpur	28.64	727.3	29.66	753.4	85.3	29.6	55	wnw.	4.0	1.8	...	...	9	...	w.	0	0	gloomy	
Jubbulpore	28.34	719.9	29.71	754.6	73.8	23.2	77	s.	3.2	1.4	...	...	10	...	s.	0	0	overcast	
Lucknow	29.20	743.2	29.63	752.5	88.3	31.3	68	ene.	1.5	0.7	...	...	10	sw.	...	0.21	5.3	overcast	
Allahabad	29.31	744.5	29.62	752.4	79.4	26.3	95	ne.	1.0	0.4	...	...	10	...	ne.	0.40	10.2	overcast	
Patna	29.45	748.0	29.63	752.6	85.6	29.8	75	ene.	4.5	2.0	...	...	6	ene.	ene.	0.02	0.5	d. clouds	
Hazaribagh	27.59	700.7	29.59	751.5	75.8	24.3	85	ese.	8.5	3.8	...	...	10	...	e.	1.40	35.6	thund'r st'm	
Cuttack	29.57	751.1	29.65	753.2	82.9	28.3	81	calm	0	0	...	...	6	...	...	0.30	7.6	d. clouds	
Calcutta, Alipore	29.62	752.5	29.65	753.0	79.5	26.4	93	sse.	4.0	1.8	...	...	9	...	...	0.14	3.6	d. clouds	
Dhubri	29.56	750.9	29.68	753.9	80.3	26.8	86	calm	0	0	...	...	9	...	...	0	0	gloomy	
Chittagong	29.05	753.1	29.74	755.4	80.7	27.1	86	sse.	5.6	2.5	...	...	6	...	...	0	0	d. clouds	
Sibsagar	29.34	745.3	29.07	753.7	86.0	30.0	76	ne.	4.0	1.8	...	...	6	w.	w.	0.75	19.0	d. clouds	
Jeypore	28.22	716.8	29.64	752.7	88.7	31.5	53	nw.	3.8	1.7	...	...	8	...	nw.	0	0	d. clouds	
Zanzibar, Africa	30.05	763.3	...	...	79.4	26.3	40	s.	11.5	5.1	...	...	0	...	...	0.01	0.3	blue sky	
Italian.																			
Udine	29.61	752.0	30.00	762.0	78.1	25.6	46	s.	1.8	0.8	...	...	5	...	...	0	0	...	Prof. Giovanni Cloelig.
Milan	29.47	748.6	29.97	761.2	80.6	27.0	37	s.	4.3	1.9	...	...	2	w.	...	0	0	...	Prof. Schiaparelli.
Padua	29.86	758.5	29.97	761.2	79.2	26.2	50	ese.	8.1	3.6	...	...	3	wsw.	...	0	0	...	Prof. Dott. Lorenzoni.
Moncalieri	29.06	738.2	29.94	760.4	78.6	25.9	46	n.	3.1	1.4	...	...	1	...	...	0	0	...	Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Genoa	29.82	757.5	30.01	762.2	76.8	24.9	61	sw.	5.6	2.5			0			0	0		Prof. G. M. Garibaldi
Mondovi	28.08	713.1	29.91	759.7	78.3	25.7	43	w.			2		0			0	0		Prof. D. C. Bruno.
Pesaro	29.92	759.9	29.97	761.1	78.1	25.6	57	ese.	14.3	6.4			1			0	0		Prof. Luigi Guidi.
Florence	29.74	755.5	29.99	761.7	79.7	26.5	29	nw.			2		0			0	0		Prof. Costantino Pitter
Leghorn	29.88	758.9	29.96	761.0	78.6	25.9	67	w.	1.3	0.6			2			0	0		Prof. P. Monte.
Rome	29.85	758.2	30.02	762.5	84.4	29.1	40	sw.	10.5	4.7			1			0	0		Prof. P. Tachini.
Lecce	29.74	755.4	29.98	761.5	77.4	25.2	47	nw.	18.1	8.1			0			0	0		Prof. C. de Giorgi
Cosenza	29.14	740.1	29.99	761.8	81.3	27.4	71	sse.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari	29.78	756.5	29.97	761.3	80.8	27.1	63	ssw.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.80	756.9	30.04	763.0	79.7	26.5	61	ne.	8.7	3.9			1			0	0		Prof. G. Ciacciatore.
Syracuse	29.93	760.1	29.97	761.2	81.7	27.6	62	s.	12.5	5.6			6	wnw.		0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.51	749.6	30.02	762.4	83.3	28.5	40	sw.	7.4	3.3			2			0	0		Prof. T. Brioschi.
Stelvio	22.28	566.0			51.8	11.0	57	sw.			2		1			0.465	11.8	misty	Prof. P. F. Denza.
Valdobbia	22.34	567.4			54.1	12.3	72	n.			2		4			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.88	758.9	29.92	759.9	71.1	21.7	88	calm	0	0		0	0			0	0	clear	K. Ogawa.
Hakodate	29.89	759.2	29.90	759.4	66.0	18.9	94	calm	0	0			0			0	0	clear	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.70	754.4	29.87	758.7	72.9	22.7	65	e.	5.0	2.2		0	3 s;ck			0	0	clear	M. Fojima.
Nagasaki, I. M. Obs'y	29.49	749.0	29.68	753.8	79.0	26.1	60	ne.	10.5	4.7		4 cs	4 s			0	0	cloudy	
Nemuro	30.00	762.0	30.07	763.8	60.0	15.6	97	calm	0	0		0	0			0	0	clear	
Niigata	29.84	757.9	29.87	758.7	74.3	23.5	89	ne.	0.2	0.1		0	0			0	0	clear	M. Morita.
Nobiru	29.92	760.0	29.94	760.4	72.7	22.6	83	ssw.	10.2	4.6		0	1 s			0	0	clear	H. Midzushina.
Osaka	29.80	756.9	29.81	757.2	74.0	23.3	66	ene.	9.4	4.2		0	8 s;ks			0.010	0.2	cloudy	
Sapporo					70.5	21.4	86	se.	6.0	2.7			0			0	0	clear	
Tokei Obs'y, Yeddo	29.87	758.8	29.95	760.7	67.9	19.9	86	calm	0	0		0	0			0	0	clear	The Staff.
Wakayama	29.78	756.4	29.83	757.7	74.6	23.7	67	ene.	1.8	0.8		2	8			0.016	0.4	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.96	761.0	30.15	765.8	74.1	23.4	64	e.	20.0	8.9		0	2 k;ks		e.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.71	602.2	29.93	760.2	56.8	13.8	83	e.	2.9	1.3		0	0			0	0	clear	Prof. Vicente Fernandez.
Leon.†	24.37	619.0	30.03	762.7	60.1	15.6	89	se.			1	5 c	0	ne.		0.210	5.3		Prof. M. Leal.
Mazatlan	29.68	753.9	29.94	760.4	76.0	24.4	91	nne.	0.9	0.4		7 cn	0	se.		0	0	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.14	587.6	30.17	766.4	51.8	11.0	81	nw.	1.1	0.5		0	0			0	0	clear	The Staff.
Morelia	24.24	615.6	30.30	769.7	57.7	14.3	57	s.			2	2	2	se.	se.	inap.	inap.	½ cloudy	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.98	609.0	29.89	759.3	61.3	16.3	88	calm			0	0	5 ks		se.	0.330	8.4	⅘ cloudy	M. Y. de Leon, M. E
Puebla, Catholic Institute	23.42?	595.4?	30.25	768.3	59.6?	9.8?	92	calm			0		10			1.070?	26.8?	covered	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D.
Zacatecas	22.51	571.7	30.04	763.1	57.8?	15.0?	68	w.	6.9	3.1		0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.01	762.3	30.01	762.3	66.4	19.1		w.			4					0.122	3.1		
Groningen	29.78	756.5	29.84	757.9	59.4	15.2		nw.			4					0.640	10.4		
Helder	29.91	759.7	29.91	759.7	63.0	17.2		wnw.			4					0.059	1.5		
Hellevoetsluis	29.98	761.6	29.98	761.6	63.7	17.6	68	w.			3					0.008	0.2		
Utrecht	29.91	759.6	29.95	760.8	67.5	19.7	69	w.			3		5			0.031	0.8	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.72	754.9	29.78	756.5	59.4	15.2	89	sse.	7	3			10			1.331	33.8	raining	
Brono	29.63	752.7	29.67	753.7	71.6	22.0	56	ssw.	9	4			3			0	0		
Christiania	29.63	752.7	29.77	756.2	77.9	25.5	56	sw.	0	0			4			0	0		
Gjesvær	29.82	757.5	29.85	758.1	59.4	15.2		calm			0		2						
Lodingen	29.69	754.1	29.74	755.3	71.2	21.8	60	calm			0		1			0.236	6.0		
PORTUGUESE.																			
Angra, Azores					73.6	23.1	81	e.	3.1	1.4			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.05	737.9	29.99	761.8	88.7	31.5	33	nnw.	1.3	0.6			7			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.13	765.4	30.22	767.6	75.2	24.0	74	sw.	6.9	3.1			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.79	756.6	30.14	765.6	70.7	21.5	59	n.	35.3	15.8			4			0	0		The Staff.
Ponta Delgada, Azores	30.38	771.7	30.45	773.5	75.9	24.4	75	se.	4.9	2.2			4			0	0		
Saint Paul de Loando	29.82	757.3	30.02	762.5	71.1	21.7	88	sse.			1		0			0	0		
Serra da Estrella	25.48	647.1	30.09	764.3	62.6	17.0	56	nne.	11.2	5.0			6			0	0		
RUSSIAN.																			
Akmolinski	28.86	733.1	29.89	759.2	76.3	24.6	42	s.	7	3		0	3 k			0	0		Major K. Lasarew.
Archangel	30.10	764.6	30.12	765.1	59.2	15.1	61	ese.	13	6			10			0	0		Capt. Sseliwerstow.
Astrakhan	29.96	761.0	29.88	758.9	87.8	31.0	44	se.	9	4		0	0			0	0		Capt. Wisganow.
Barnaul	29.44	747.8	29.92	759.9	71.6	22.0	41	sw.	13	6			5			0	0		Meteorological Obs'y.
Dorpat	29.64	752.8	29.87	758.6	79.2	26.2	43	ne.	7	3		cs	1 k			0	0		Observatory.
Ekaterinburg	29.00	736.6	29.92	759.9	76.5	24.7	44	w.	9	4			10			0.028	0.7	light clouds.	Meteorological Obs'y.
Irkutsk																			
Kasan	29.69	754.0	29.93	760.3	85.3	29.6	28	wnw.	2	1		0	7			0	0		Observatory.
Kertch	29.72	754.9	29.74	755.4	79.3	26.3	72	nnw.	13	6		5 ck	0			0	0		Lagorio & Sastyrez.
Kieff	28.98	736.2	29.61	752.0			97	ssw.	11	5			9k;ks;n					raining	Observatory.
Lugan	29.56	750.7	29.75	755.6	90.0	32.2	44	sse.	13	6			7			0	0		Meteorological Obs'y.
Moscow	29.37	746.1	29.82	757.4	76.6	24.8	53	sw.	7.8	3.5		0	7 ks						Meteorological Obs'y.
Nikolaiev	29.66	753.4	29.73	755.2	79.3	26.3	42	wsw.	18	8		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor.																			Lieut. Iwanow.
Pekin, China	29.60	751.9	29.74	755.5	81.1	27.3	90	calm	0	0		0	2 k			0.101	4.1		Physical Observatory.
St. Petersburg	29.89	759.2	29.91	759.6	78.6	25.9	46	ene.	9	4		2 ck	0			0	0		Central Physical Obs'y.
Semipalatinsk	29.34	745.2	29.96	761.0	77.7	25.4	39	sse.	4	2			1			0	0		Major Lasarew
Tashkend, Laboratory	28.28	718.4	29.76	755.8	84.2	29.0	40	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.43	722.2	29.74	755.5	97.5	36.4	30	s.	4	2		0	0			inap.	inap.		Physical Observatory.
Vladivostock	29.88	758.9	29.95	760.6	71.6	22.0	92	calm	0	0			10 k						
Warsaw	29.39	746.4	29.79	756.6	75.7	24.3	56	nnw.	2	1			9 k						Astronomical Obs'y.
Wilna	29.35	745.4	29.74	755.4	77.7	25.4	58	ne.	4	2			8			0.008	0.2		Berg, Assistant.
Yeniseisk	29.73	755.2	30.02	762.4	55.4	13.0	86	w.	4	2			7			0.035	0.9	raining	M. O. Marks.
SCOTTISH.																			
Monach Lt.			29.45	748.0	57	13.9	93	s.			7		10			0.3	8.	sleeting	J. Youngclause.
North Unst			29.66	753.4				s.			4	7	4	sse.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.94	760.4	30.04	763.0	81.7	27.6	69	e.	2.0	0.9			9			0.299	7.6	thund'r st'm	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.17	766.3	30.23	767.8	70.2	21.2	75	nw.	2.0	0.9			10			0.142	3.6	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.22	691.4	30.13	765.2	66.7	19.3	69	e.	10.5	4.7		0	7			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.85	707.3	29.95	760.6	86.4	30.2	50	sw.	5.4	2.4		0	8			0	0	cloudy	The Staff.
Murcia, Met. Obs'y	29.80	758.5	30.00	761.9	86.0	30.0	66	ene.	4.5	2.0		1	2	nw.		0.024	0.6		Olayo Diaz, Director
Oviedo	29.40	746.8	30.28	769.0	59.9	15.5	94	n.	2.6	1.2			10 n			0.101	4.1	covered	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.31	744.5	30.19	766.8	69.4	20.8	58	nne.	6.9	3.1		0	3			0	0	cloudy	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.99	761.8	30.06	763.4	75.0	23.9	86	e.	5.8	2.6		2 ck	k	e.	e.	0.56	14.2	clear	Benito Vines, S. J.
Manila, Philippine Islands	29.84	757.8	29.89	759.3	84.5	29.2	72	se.	1.1	0.5		0	1 k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.2	30.07	763.7	75.9	24.4	66	w.	8.8	4.0		2	4	w.	w.	0	0		Capt. C. Pujazon R. N.
San Juan de Porto Rico, W. I	29.91	759.8	30.00	762.1	77.4	25.2	90	sw.	5.8	2.6		2 cs	4 k	e.	sw.	0	0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.79	756.7	29.93	760.2	80.2	26.8	79	nw.	6.3	2.8		0 cs	2 k	e.	n.	0	0	cloudy	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.93	760.3	29.97	761.3	71.2	21.8	71	se.			2		10			0	0		
Umea	29.85	758.3	29.91	759.6	73.8	23.2	72	sw.			2		0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
Swedish—Continued.																			
Hernosand	29.83	757.7	29.88	759.0	76.6	24.8	55	ssw.			2		1			0	0		
Stockholm	29.71	754.7	29.89	759.2	79.9	26.6	42	se.			2		0			0	0		
Wisby	29.81	757.1	29.87	758.6	81.0	27.2	35	se.			4		0			0	0		
Sub-series.																			
Upsala	29.78	756.4	29.87	758.6	80.1	26.7	41	s.	8.3	3.7			2		ssw.	0.024	0.6		S. G. Fineman.
Swiss.																			
Geneva	28.67	728.1	30.05	763.2	70.0	21.1	70	ne.			2		10			0	0	covered	The Observatory
Turkish.																			
Constantinople			29.94	760.5	78.1	25.6	48	nne.	9	4.0			6		n.	0	0		The Observatory.
Valona			30.11	764.9	76.6	24.8		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.83	757.7	89.1	31.7	55	w.			2	0	0			0	0		Prof. C. V. A. van Dyck.
United States.																			
Albany, New York	30.23	767.8	30.31	769.9	60	15.6	70	n.	1	0.4		0	0			inap.	inap.	clear	J. O. Barnes.
Alpena, Michigan	29.58	751.3	30.22	767.6	63	17.2	93	s.	2	0.9			10 s		sw.	0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.05	636.3	29.77	756.1	59	15.0	62	e.	1	0.4			10 s			0	0	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.09	688.1	29.84	757.9	55	12.8	64	sw.	4	1.8		1 c	0	sw.		0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.06	738.1	30.21	767.3	69.5	20.8	93	e.	9	4.0			10 s		e.	inap.	inap.	cloudy	H. Hall.
Atlantic City, New Jersey	30.26	768.6	30.27	768.8	65	18.3	73	n.	7	3.1		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.05	763.3	30.24	768.1	74	23.3	88	ne.	6	2.7			10 s		e.	inap.	inap.	cloudy	John Healy.
Baltimore, Maryland	30.28	769.1	30.34	770.6	63	17.2	68	ne.	3	1.3		0	0			0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.26	768.6	30.28	769.1	68.5	20.3	67	ne.	10	4.5		1 k	0	sw.		0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.37	720.6	29.91	759.7	66	18.9	84	se.	5	2.2		5 c	5 s			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.09	688.1	29.88	758.9	55	12.8	69	calm	0	0		0	3 s			0	0	clear	S. Wheaton.
Behring Island, Behring Sea	29.89	759.2	29.91	759.7	53.3	11.8		s.	5	2.2			fg.			0.13	3.3	light rain	Dr. L. Steineger.
Bismarck, Dakota	28.17	715.5	29.92	760.0	65	18.3	70	e.	8	3.6		1 c	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.22	767.6	30.25	768.3	63	17.2	68	n.	8	3.6		3 ck	0	w.		0	0	clear	J. T. Elker.
Boise City, Idaho	27.07	687.6	29.82	757.4	56	13.3	64	nw.	4	1.8		2 k	0	calm		0	0	clear	B. E. Light.
Boston, Massachusetts	30.08	764.0	30.23	767.8	54.0	12.2	77	nw.	6	2.7		2 c	hz.	nw.		0	0	clear	O. B. Cole.
Brownsville, Texas	30.00	762.0	30.04	763.0	73.5	23.1	97	calm	0	0		0	6 ks;s			inap.	inap.	fair	M. McCarty.
Buffalo, New York	29.59	751.6	30.32	770.1	55	12.8	69	ne.	5	2.2		2 cs	hz.	w.		0	0	clear	Clarence Weaver.
Buford, Fort, Dakota	27.96	710.2	29.90	759.4	60	15.6	78	e.	8	3.6		5 cs	0	calm		0	0	fair	A. H. Bell.
Burlington, Vermont	29.99	761.7	30.28	769.1	61.7	16.5	76	n.	1	0.4		3 ck	3 ks	w.	n.	0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.89	759.2	30.28	769.1	65.6	18.7	80	ne.	4	1.8		0	0			0	0	clear	W. H. Ray.
Campo, California	27.35	694.7	29.85	758.2	49.8	9.9	86	s.	2	0.9		0	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	30.26	768.6	30.28	769.1	73	22.8	64	n.	7	3.1		0	hz.			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.25	768.3	30.28	769.1	67.0	19.4	63	ne.	10	4.5		0	0			0	0	clear	W. E. Smith.
Cape Mendocino	29.39	746.5			50	10.0	100	n.	16	7.2			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	30.11	764.8	30.13	765.3	77	25.0	85	e.	6	2.7		4 c	3 ks			0	0	fair	F. W. Mixer.
Champaign, Illinois	29.48	748.8	30.27	768.8	66.0	18.9	81	sw.	7	3.1		4 c	hz.	n.		0	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.14	765.5	30.19	766.8	75	23.9	85	ne.	9	4.0		3 ck	5 s		ne.	0.46	11.7	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.40	746.7	30.23	767.8	70.0	21.1	84	ne.	6	2.7		0	sk.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.43	747.5	30.24	768.1	67.0	19.4	84	ne.	3	1.3		3 cs	0			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.13	612.9	29.83	757.7	53.8	12.1	77	nw.	5	2.2		0	6 s		nw.	0.10	2.5	fair	E. McGovern.
Chicago, Illinois	29.54	750.3	30.24	768.1	68.0	20.0	81	w.	5	2.2		1 k	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.26	768.6	30.28	769.1	69	20.6	70	nw.	13	5.8		0	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.66	753.4	30.30	769.6	66	18.9	84	calm	0	0		8 k	0	e.		0	0	cloudy	J. F. Harrold.
Cleveland, Ohio	29.58	751.3	30.30	769.6	62.7	17.1	72	se.	8	3.6		10 k	0	nw.		0	0	cloudy	J. B. Newlin.
Coleman City, Texas	28.34	719.8	30.08	764.0	67	19.4	100	se.	1	0.4		3 c	0			0.02	0.5	clear	L. Dorman.
Columbus, Ohio	29.45	748.0	30.28	769.1	63	17.2	84	calm	0	0		0	0			0	0	clear	D. Cuthbertson.
Concho, Texas	28.21	716.5	30.07	763.8	68	20.0	93	e.	2	0.9		4 ck	0	e.		0	0	fair	W. W. McConihe.
Custer, Fort, Montana	26.74	679.2	29.80	756.9	63	17.2	63	n.	2	0.9		6 k	0	calm		0	0	fair	W. B. Lamar.
Davenport, Iowa	29.61	752.1	30.24	768.1	68	20.0	78	sw.	2	0.9		5 cs	hz	sw.	calm	0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.26	641.6	29.91	759.7	64	17.8	90	calm	0	0			10 s		se.	0.14	3.6	cloudy	J. Williams.
Dayton, Washington T'y	28.21	716.5	29.92	760.0	49.7	9.8	94	sw.	2	0.9		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.36	644.1	29.79	756.7	59	15.0	78	se.	4	1.8		10 cs	0	w.		0.05	1.3	cloudy	G. W. Scott.
Decatur, Texas					71	21.7	66	se.	6	2.7		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.25	768.3	30.27	768.8	68	20.0	78	ne.	14	6.3		0	0			0	0	clear	T. S. Townsend.
Denison, Texas	29.37	746.0	30.15	765.8	65.6	18.7	90	calm	0	0		6 ck	0	e.		0	0	fair	J. McGlone.
Denver, Colorado	24.80	629.9	29.82	757.4	61.0	16.1	50	s.	6	2.7		1 c	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.32	744.7	30.20	767.1	66	18.9	78	s.	2	0.9		3 c	0	w.		0	0	clear	F. W. Conrad.
Detroit, Michigan	29.57	751.1	30.26	768.6	65.0	18.3	90	calm	0	0		4cs;ck	4 s	w.		0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.58	700.5	30.06	763.5	67	19.4	84	s.	4	1.8		0	2 s		s.	0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.54	750.3	30.23	767.8	68.2	20.1	78	calm	0	0		1 ck	6 ks;s	sw.	nw.	0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.45	748.0	30.17	766.3	61	16.1	84	sw.	7	3.1			10 s		sw.	0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.30	744.2	30.09	764.3	75.1	23.9	85	se.	4	1.8			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.25	641.3	29.80	756.9	49	9.4	50	sw.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.13	765.3	30.20	767.1	54.0	12.2	74	n.	3	1.3		3 ck	0	w.		0	0	fair	D. C. Murphy.
Elliott, Fort, Texas	27.37	695.2	30.01	762.2	66	18.9	84	se.	4	1.8		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.33	668.8	29.93	760.2	69	20.6	76	ne.	6	2.7			10 s		e.	inap.	inap.	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.60	751.8	30.31	769.9	58	14.4	70	se.	1	0.4		5 c	0			0	0	fair	Peter Wood.
Escanaba, Michigan	29.55	750.6	30.19	766.8	61.5	16.4	100	ne.	3	1.3			10 s			0.23	5.8	cloudy	George Heathcote.
Fredericksburg, Texas	28.38	720.8	30.09	764.3	74	23.3	87	calm	0	0		1 cs	0			1.13	28.7	clear	Frank Halwegler.
Galveston, Texas	30.02	762.5	30.07	763.8	78	25.6	69	e.	16	7.2		5 cs	0			0	0	fair	E. O'C. Macherney.
Grand Haven, Michigan	29.56	750.8	30.21	767.3	68.5	20.3	84	sw.	8	3.6		3 ck	5 k	w.	sw.	0.27	6.9	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.24	641.1	29.81	757.2	70.9	21.6	64	se.	8	3.6		0	8 s		se.	0	0	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.21	767.3	30.23	767.8	73	22.8	66	n.	18	8.0		4 c	3 k	ne.	n.	0.22	5.6	fair	R. M. Crawford.
Helena, Montana	25.76	654.3	29.85	758.2	58	14.4	44	w.	2	0.9		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.20	741.7	30.20	767.1	73.0	22.8	76	se.	3	1.3		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.64	727.4	29.98	761.5	65.1	18.4	81	e.	10	4.5			10 ks		w.	0.05	1.3	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.50	749.3	30.27	768.8	68	20.0	81	calm	0	0		0	hz.			0	0	clear	O. Schutze
Indianola, Texas	30.06	763.5	30.09	764.3	76.2	24.6	90	ne.	15	6.7		hz.	2 k		e.	0.06	1.5	clear	I. A. Reed.
Jacksboro, Texas	29.00	736.6	30.12	765.0	68	20.0	84	e.	1	0.4		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.10	764.5	30.14	765.5	79	26.1	91	n.	3	1.3		7ck;cs	0	w.		0.09	2.3	fair	J. W. Smith.
Keogh, Fort, Montana	27.37	695.2	29.80	756.9	66	18.9	75	e.	7	3.1		1 ck	7 s	sw.	sw.	0	0	cloudy	A. Schneider.
Keokuk, Iowa	29.59	751.6	30.22	767.6	66.5	19.2	82	calm	0	0		2 c	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	83.0	28.3	80	se.	5	2.2		6 cs	2 k.			0.20	5.1	cloudy	R. H. Paxton.
Kittyhawk, North Carolina	30.25	768.3	30.27	768.8	73	22.8	66	ne.	17	7.6		3 cs	3 k	nw.	e.	0	0	fair	E. A. Beals.
Knoxville, Tennessee	29.24	742.7	30.25	768.3	65	18.3	78	ne.	3	1.3		2 c	0			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.44	747.8	30.18	766.6	72	22.2	76	s.	9	4.0			10 s			0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.34	745.2	30.20	767.1	68	20.0	73	s.	4	1.8		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.10	739.1	29.91	759.7	59.0	15.0	40	se.	2	0.9		5 cs	0			0	0	fair	W. Bell.
Little Rock, Arkansas	29.88	758.9	30.19	766.8	69	20.6	78	n.	1	0.4		0	2 ks			0	0	fair	W. U. Simons.
Los Angeles, California																			Egbert van Dyke.
Louisville, Kentucky	29.71	754.6	30.26	768.6	64	17.8	78	ne.	4	1.8		2 ck	0			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.60	751.8	30.27	768.8	69	20.6	84	e.	1	0.4			10 ks		n.	0	0	cloudy	Lewis Duane.
Mackinaw City, Michigan	29.58	751.3	30.22	767.6	63.0	17.2	90	s.	1	0.4		10 k	0	w.		0	0	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.22	767.6	30.23	767.8	72	22.2	84	n.	9	4.0		4ck;cs	1 s	n.		inap.	inap.	fair	F. P. Chaffee.
Madison, Wisconsin	29.24	742.7	30.22	767.6	67	19.4	84	sw.	4	1.8		3 cs	0	w.		0	0	fair	C. A. Shaw.
Maginnis, Fort, Montana	25.54	648.7			58	14.4	44	n.	8	3.6		3 cs	0	w.		0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.91	708.9	30.12	765.0	70	21.1	97	calm	0	0			10 s			0.01	0.3	cloudy	J. E. Thatcher.
Marquette, Michigan	29.47	748.5	30.18	766.6	65	18.3	73	w.	6	2.7		5 c	0	w.		0.03	0.8	fair	J. Gilligan.
Memphis, Tennessee	29.86	758.4	30.19	766.8	68	20.0	70	ne.	5	2.2		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.48	748.8	30.21	767.3	69	20.6	78	w.	10	4.5		5 ck	0	w.		0.05	1.3	fair	W. Line.

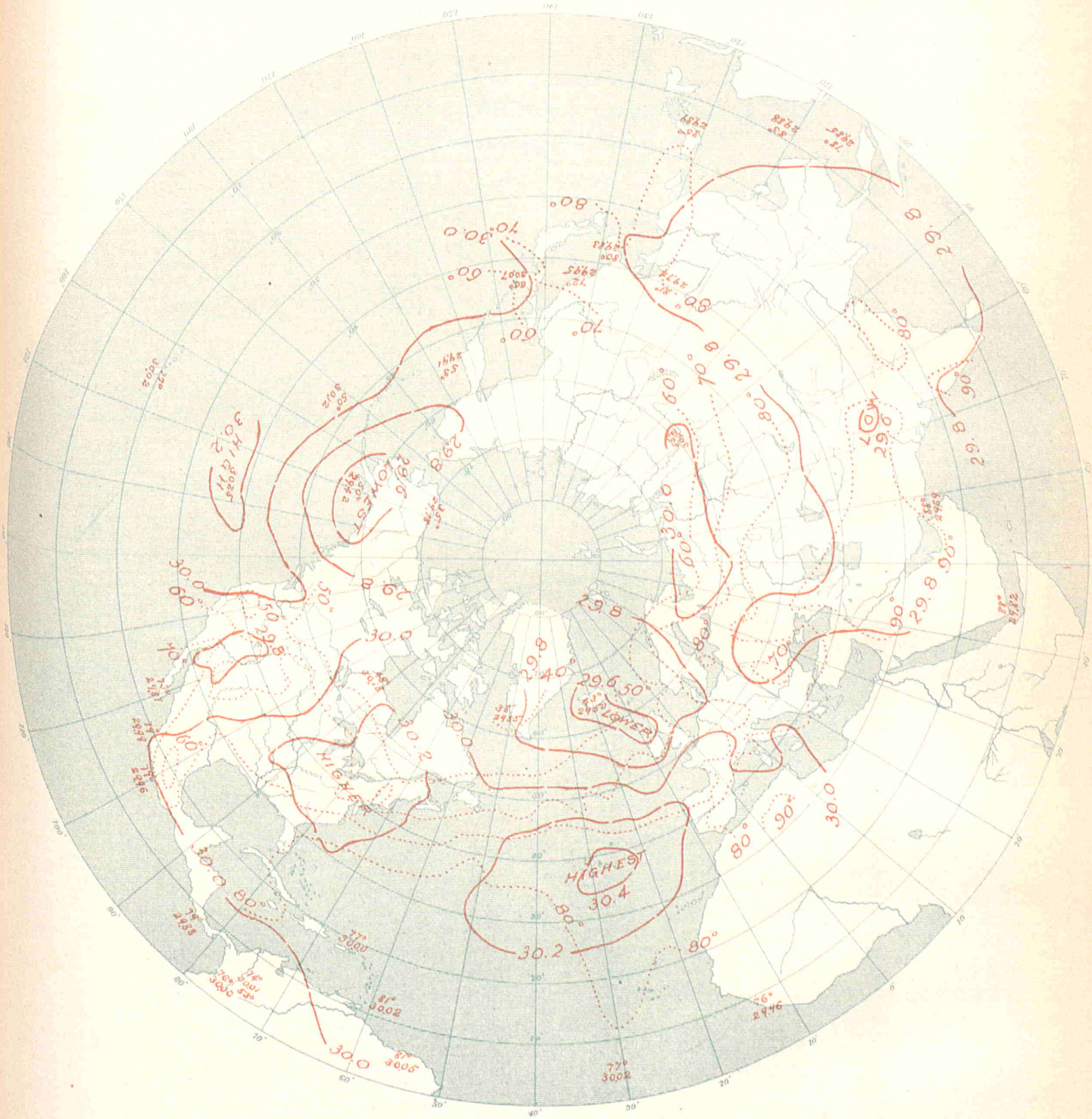
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.69	677.9	29.91	759.7	46	7.8	71	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.05	763.3	30.09	764.3	74.5	23.6	90	ne.	4	1.8	.....	8 cs	0	sw.	.....	0.39	9.9	cloudy	C. A. Read.
Montgomery, Alabama	29.91	759.7	30.14	765.5	72.7	22.6	91	e.	6	2.7	.....	4ck;hs	1 s	w.	sw.	inap.	inap.	fair	J. B. McLaughlin.
Moorhead, Minnesota	30.02	762.5	30.00	762.0	60	15.6	93	e.	8	3.6	.....	.....	10 n	.....	.....	0.09	2.3	light rain	H. Bessant.
Morgantown, W. Virginia	29.33	745.0	30.33	770.4	57.5	14.2	91	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.00	609.6	30.08	764.0	35.0	1.7	96	n.	30	13.4	.....	.....	fg.	.....	n.	0	0	dense fog	J. G. Linsley.
Nashville, Tennessee	29.66	753.4	30.22	767.6	66.0	18.9	68	e.	4	1.8	.....	0	1 k	.....	ne.	0	0	clear	L. N. Jesunofsky.
New Haven, Connecticut	30.17	766.3	30.28	769.1	56	13.3	69	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.24	768.1	30.29	769.4	63	17.2	56	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.07	763.8	77.0	25.0	74	ne.	3	1.3	.....	4 c	4 k	.....	ne.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	30.21	767.3	30.26	768.6	62.0	16.7	70	nw.	5	2.2	.....	1 c	0	n.	.....	0	0	clear	W. McGillivray.
New York, New York	30.14	765.5	30.31	769.9	63	17.2	56	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.25	768.3	30.28	769.1	75	23.9	64	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.12	688.8	29.92	760.0	69.6	20.9	69	se.	12	5.4	.....	0	3 s	.....	s.	0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.02	762.5	30.06	763.5	53.0	11.7	80	calm	0	0	.....	6 ck	0	w.	.....	0	0	fair	J. Dascomb.
Oogkaamie, Pt. Barrow, Alas.	29.76	755.9	29.78	756.4	35.0	1.7	98	ese.	10	4.5	.....	.....	10 s	.....	.....	0	0	cloudy	P. H. Ray.
Omaha, Nebraska	28.99	736.3	30.13	765.3	68.8	20.4	78	s.	6	2.7	.....	8 c	0	nw.	.....	0	0	cloudy	A. Pollak.
Oswego, New York	29.99	761.7	30.31	769.9	58.5	14.7	72	s.	5	2.2	.....	1 k	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.62	752.3	30.16	766.1	67.0	19.4	78	ne.	7	3.1	.....	3 ck	0	n.	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.05	763.3	30.08	764.0	76.7	24.8	86	nw.	5	2.2	.....	.....	10 s	.....	e.	0	0	cloudy	M. McGauran.
Philadelphia, Pa.	30.23	767.8	30.33	770.4	65	18.3	58	n.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.06	458.7	29.84	757.9	38	3.3	58	sw.	2	0.9	.....	1 c	0	w.	.....	0	0	clear	L. M. Dey.
Ploche, Nevada	24.08	611.6	29.78	756.4	66	18.9	58	s.	5	2.2	.....	8 k	0	s.	.....	0	0	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.51	749.5	30.30	769.6	56.8	13.8	90	nw.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. B. Turton.
Poplar River, Montana	27.78	705.6	.....	.....	.....	.....	.....	ne.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.05	763.3	30.06	763.5	75.1	23.9	82	e.	2	0.9	.....	.....	10 n	.....	e.	0.20	5.1	light rain	M. Hermann.
Port Huron, Michigan	29.59	751.6	30.25	768.3	63.3	17.4	90	calm	0	0	.....	3 cs	0	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	30.17	766.3	30.22	767.6	59.0	15.0	69	nw.	4	1.8	.....	2 cs	0	nw.	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.96	761.0	30.03	762.7	55.0	12.8	80	calm	0	0	.....	0	hz.	.....	.....	0	0	dense haze	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	75	23.9	64	ne.	20	8.9	.....	0	7 k	.....	ne.	0.04	1.0	fair	F. S. Coburn.
Prescott, Arizona	24.80	629.9	29.78	756.4	60	15.6	78	s.	2	0.9	.....	0	0	.....	.....	0.04	1.0	clear	J. McN. Wright.
Provincetown, Mass.	30.20	767.1	30.23	767.8	60.5	15.8	72	nw.	6	2.7	.....	2 cs	0	nw.	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.06	763.5	30.07	763.8	74	23.3	94	e.	6	2.7	.....	10 cs	0	calm	.....	0.57	14.5	cloudy	W. J. Evans.
Red Bluff, California	.....	.....	.....	.....	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.86	758.4	30.10	764.5	75	23.9	90	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Rochester, New York	29.66	753.4	30.31	769.9	52	11.1	86	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	E. W. McGann.
Roseburg, Oregon	29.52	749.8	30.06	763.5	50	10.0	77	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.80	756.9	29.87	758.7	58.4	14.7	80	s.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.70	754.4	30.28	769.1	67.5	19.7	93	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.28	743.7	30.12	765.0	67.0	19.4	90	e.	5	2.2	.....	9 cs	0	sw.	.....	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.19	741.4	30.04	763.0	50	10.0	93	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.61	650.5	29.80	756.9	69	20.6	53	calm	0	0	.....	4 k	0	sw.	.....	0.30	7.6	fair	J. Craig.
San Antonio, Texas	29.40	746.7	30.09	764.3	71.5	21.9	94	calm	0	0	.....	0	0	.....	.....	0	0	clear	T. J. Kenan.
San Diego, California	29.80	756.9	29.87	758.7	65.9	18.8	84	sw.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.60	751.8	30.26	768.6	65.7	18.7	80	sw.	10	4.5	.....	7 k	0	n.	.....	0.09	2.3	fair	M. H. Perry.
Sandy Hook, New Jersey	30.27	768.8	30.30	769.6	64.0	17.8	73	n.	15	6.7	.....	0	0	.....	.....	0	0	clear	B. A. Blundon.
San Francisco, California	29.87	758.7	29.94	760.5	54.5	12.5	90	sw.	7	3.1	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Grom.
Santa Fé, New Mexico	23.40	594.3	29.89	759.2	57	13.9	77	se.	6	2.7	.....	6 c	4 k	se.	se.	0	0	cloudy	H. U. Jones.
Savannah, Georgia	30.09	764.3	30.18	766.6	75	23.9	94	ne.	6	2.7	.....	.....	10 ks	.....	ne.	0.11	2.8	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.32	668.5	29.85	758.2	47	8.3	66	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.90	759.4	30.13	765.3	68	20.0	73	ne.	1	0.4	.....	2 k	0	.....	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.94	735.1	30.12	765.0	67	19.4	84	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Silver City, New Mexico	24.36	618.7	29.82	757.4	57	13.9	83	calm	0	0	.....	0	6 s	.....	calm	0.90	22.9	fair	J. B. Wallace.
Sitka, Alaska	29.54	750.3	29.60	751.8	55	12.8	86	sw.	5	2.2	.....	.....	10 n	.....	sw.	0.33	8.4	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.74	755.4	30.20	767.1	65.3	18.5	84	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.17	766.3	30.21	767.3	74	23.3	82	ne.	8	3.6	.....	4 c	1 k	w.	e.	0.86	21.8	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.90	708.6	29.90	759.4	53	11.7	57	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.61	752.1	30.27	768.8	66.4	19.1	83	s.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	30.16	766.1	30.29	769.4	56.1	13.4	80	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo.	28.84	732.5	30.23	767.8	62.5	16.9	89	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. B. Marbury.
Starkville, Miss.	29.67	753.6	30.14	765.5	70	21.1	84	n.	6	2.7	.....	5 cs	2 s	s.	.....	0	0	fair	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.12	714.2	29.90	759.4	56	13.3	93	se.	3	1.3	.....	2 c	3 s	w.	.....	0	0	fair	W. Burrows.
Stockton, Fort, Texas	27.10	688.3	30.04	763.0	68.0	20.0	93	sw.	12	5.4	.....	.....	10 s	.....	sw.	0.06	1.5	cloudy	J. O'Dowd.
Thomas Camp	27.21	691.1	29.83	757.7	76.5	24.7	63	se.	.....	.....	1	2 ck	4 ks	s.	s.	0	0	fair	.....
Thatcher's Island, Mass.	30.20	767.1	30.26	768.6	59.0	15.0	72	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.56	750.8	30.23	767.8	67	19.4	90	s.	2	0.9	.....	0	6ks;fg	.....	nw.	0.01	0.3	fair	A. Buell.
Tucson, Arizona	27.49	698.2	29.83	757.7	70	21.1	90	s.	4	1.8	.....	0	7 ks	.....	.....	inap.	inap.	fair	J. L. Whiteside.
Umatilla, Oregon	29.58	751.3	29.94	760.5	66	18.1	59	w.	12	5.4	.....	1 c	hz.	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.13	739.9	30.07	763.8	73	22.8	97	calm	0	0	.....	.....	10 s	.....	se.	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	70	21.1	66	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.88	758.9	30.12	765.0	68	20.0	84	calm	0	0	.....	1ck;hz	hz.	.....	.....	0	0	light haze	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.53	623.1	29.87	758.7	57.8	14.3	67	calm	0	0	.....	.....	9 k	.....	.....	inap.	inap.	cloudy	T. M. Ambler.
Washington, D. C.	30.23	767.8	30.34	770.0	66.4	19.1	59	calm	0	0	.....	0	0	.....	.....	0	0	clear	F. M. M. Beall.
West Las Animas, Colorado	26.10	662.9	29.85	758.2	66.9	19.4	68	s.	12	5.4	.....	7 c	0	.....	.....	0	0	fair	F. H. Brandenburg.
Williamsport, Pa.	29.75	755.6	30.33	770.4	52	11.1	80	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.18	766.6	30.23	767.8	72	22.2	76	ne.	7	3.1	.....	4 c	0	.....	.....	0.08	2.0	fair	Samuel A. Haney.
Winnemucca, Nevada	25.59	650.0	29.82	757.4	47	8.3	26	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.76	730.5	30.03	762.7	70	21.1	66	se.	3	1.3	.....	6 cs	0	.....	.....	0	0	fair	J. H. Atfield.
Yuma, Arizona	29.62	752.3	29.76	755.9	81.7	27.6	63	se.	2	0.9	.....	0	0	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.09	561.1	.....	.....	53.0	11.7	76	sw.	5	2.2	.....	3 k	4 ks	.....	.....	0.03	0.8	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I.	30.01	762.2	30.02	762.5	81	27.2	86	e.	.....	.....	.....	0	5 ks	.....	ne.	0.08	2.0	fair	J. A. Racker.
Buenaventura, U. S. C.	29.97	761.2	30.00	762.0	76	24.4	95	calm	0	0	.....	.....	10 ks	.....	calm	1.05	26.7	cloudy	J. I. Plume.
Havana, Cuba†	29.95	760.7	30.01	762.2	75	23.9	85	se.	3.6	1.6	.....	5 cs	1 ks	se.	.....	0.56	14.2	fair	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	30.03	762.7	30.04	763.0	77.7	25.4	86	calm	0	0	.....	10c;cs	0	e.	.....	0	0	fair	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	71	21.7	.....	calm	.....	.....	0	3 ks	0	se.	.....	0	0	.....	S. M. Pike.
Navassa, W. I.	29.89	759.2	29.97	761.2	80	26.7	82	ne.	3	1.3	.....	4 cs	3 ks	e.	ne.	0	0	cloudy	F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	81	27.2	83	se.	.....	.....	2	4 ck	0	.....	.....	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.45	748.0	30.01	762.2	74	23.3	89	n.	.....	.....	1	.....	10 ks	.....	n.	0	0	foggy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	90	nw.	.....	.....	1	0	0	.....	.....	0	0	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.36	745.7	29.42	747.3	50	10.0	93	nw.	.....	.....	5	.....	10 n	.....	.....	0.91	23.1	heavy rain	W. J. Fisher.
St. Thomas, W. I.	29.93	760.2	30.06	763.5	81	27.2	82	sw.	.....	.....	.....	0	8 k	.....	sw.	0.56	14.2	cloudy	Aug. Walloe.
York Factory, B. A.	30.12	765.0	30.18	766.6	48.0	8.9	92	sw.	10	4.5	.....	2 k	2 s	w.	sw.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec.	0-10	0-10	0-10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, N. 35° 21′ W. 32° 00′	30.41	772.4	78	25.6	66	e.			3		2							d. clouds.
H. M. S. Alexandra, Port Said Egypt	29.87	758.7	81	27.2	78	nw.			2-3		0							blue sky.
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.15	765.8	69	20.6	84	ne.			2		0							misty.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.96	761.0	75	23.9		n.			3		0							blue sky.
H. M. S. Arab, N. 25° 22′, E. 55° 23′	29.55	750.6	92	33.3	57	n.			3		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.13	765.3	62.5	16.9		e.			1		0							blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	30.00	762.0	54	12.2	61	calm			0		4							d. clouds.
H. M. S. Diamond, S. 12° 15′, E. 161° 46′	29.88	758.9	80	26.7	86	ese.			5-6		4	nnw.				2	ese.	d. clouds.
H. M. S. Dido, N. 17° 55′, W. 77° 00′	30.06	763.5	81	27.2		n.			1		1	e.						blue sky.
H. M. Dock-Yard, Bermuda, W. I.	30.07	763.8	81.5	27.5	78	ssw.			1		5	ssw.						d. clouds.
H. M. S. Fantome, N. 17° 00′, W. 70° 03′	30.05	763.3	84	28.9		ne.			2		5	ne.				1	ne.	d. clouds.
H. M. S. Flying Fish, N. 34° 53′, E. 125° 35′	29.80	756.9	81	27.2	87	n.			1		2					1	s.	d. clouds.
H. M. S. Gannet, S. 5° 05′, W. 81° 15′	30.02	762.5	62.5	16.9	83	se.			3		3	n e						d. clouds.
H. M. S. Griffon, N. 47° 33′, W. 55° 08′	30.08	764.0	57.5	14.2	87	w.			1		8							d. clouds.
H. M. S. Iron Duke, N. 41° 19′, E. 131° 42′	29.93	760.2	74	23.3	100	ssw.			3-4		5	ssw.				2	ssw.	d. clouds.
H. M. S. Lark, S. 10° 26′, E. 161° 50′	29.89	759.2	77.3	25.2	92	se.			2		7					2	e.	showery.
H. M. S. Liffey, Coquimbo, Chili	30.06	763.5	58	14.4		calm			0									d. clouds.
H. M. S. Magpie, N. 35° 06, E. 129° 03′	29.81	757.2	76.8	24.9	79	nne.			2-4		8	ese.				2	ese.	squally.
H. M. S. Minotaur, Alexandria, Egypt	29.89	759.2	79.5	26.4	72	nw.			1		1							blue sky.
H. M. S. Northampton, Halifax, Nova Scotia	30.08	764.0	56	13.3	84	nnw.			1		1	nnw.						blue sky.
H. M. S. Pegasus, N. 5° 16′, E. 115° 15′	29.85	758.2	78	25.6	95	calm			0		10							d. clouds.
H. M. S. Sappho, N. 21° 00′, W. 157° 25′†	30.02	762.5	77	25.0	100	ene.			3-5		3					2	e.	d. clouds.
H. M. S. Swiftsure, S. 30° 10′, W. 72° 00′	30.16	766.1	54	12.2	93	ne.			1-2		10	n.				7	sw.	dense fog.
H. M. S. Sylvia, Montevideo, Uruguay	30.27	768.8	52	11.1	83	e.			2		3							blue sky.
H. M. S. Tenedos, N. 48° 54′ W. 53° 23′	30.04	763.0	57	13.9	87	ene.			2		9					2	ne	d. clouds.
H. M. S. Triumph, S. 31° 01′, W. 48° 28′	30.21	767.3	64	17.8	89	ene.			1		6	nne.				6	nne.	d. clouds.
H. M. S. Woodlark, Jask, Persia	29.59	751.6	87.5	30.8	80	sse.			3		2	ne.						dense mist.
Portuguese Naval																		
Rio Lima, Porto Praya, Cape Verd Islands	30.09	764.2	81.5	27.5	88				1		4					2	se.	d. clouds.
Tamega, Macao, China	29.76	755.8	84.2	29.0	85	sw.			3		10		sw.	7 h'r	7 h'r			overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.01	762.2	80	26.7	82	ne.	2	0.9			10		se.	0	0			cloudy.
Navy Yard, Portsmouth, N. H.	30.24	768.1	59	15.0	76	nw.	2	0.9			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.86	758.4	70.5	21.4	78	calm			0		2			0	0			clear.
Adams, Mare Island, Cal.			59	15.0	82	sw.			4		0			0	0	sm'h		clear.
Alaska, S. 2° 07′ W. 128° 27′	29.92	760.0	73	22.8	90	e.			3		2		e.	0	0	sm'h		fair.
Alliance, Portsmouth, N. H.	30.16	766.1	55	12.8	93	n.			1		2			0	0	sm'h		clear.
Ashuelot, Yokohama, Japan*	29.83	757.7	68	20.0	95	nw.			1		2		nnw.					clear.
Brooklyn, Rio de Janeiro, Brazil	30.20	767.1	69	20.6	100	nne.	7	3.1			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	30.29	769.4	64	17.8	100	nw.	2	0.9			0			0	0			hazy.
Constellation, Chesapeake Bay *	30.28	769.1	75	23.9	60	e.			4		0							clear.
Enterprise, Portsmouth, N. H.	30.21	767.3	56	13.3	87	nw.			0-1		2		calm					clear.
Essex, Coquimbo, Chili	30.13	765.3	58	14.4	82	nw.			4		5		nw.			sm'h	n.	fair.
Franklin, Norfolk, Va.	30.25	768.3	73	22.8	72	ne.	4	1.8			5		calm	0	0			fair.
Galena, N. 10° 00′, W. 26° 30′	29.94	760.5	81	27.2	87	calm			0		10					long	ne.	cloudy.
Hartford, N. 41° 04′, W. 29° 11′*	30.41	772.4	75	23.9	95	s.			1		2		s.	0	0	sm'h		clear.
Independence, Navy Yard, Mare Island, Cal.	29.95	760.7	57	13.9	100	sw.			3		0			0	0			clear.
Iroquois, N. 17° 05′, W. 101° 04′	29.96	761.0	77	25.0	86	ene.			2		10		ene.			sm'h	se.	light rain.
Kearsarge, N. 39° 40′, W. 70° 45′	30.23	767.8	68	20.0	84	nw.			4		5		nw.					fair.
Lackawanna, Callao, Peru*	30.07	763.8	61	16.1	88	se.			1		8		se.					cloudy.
Lancaster, Villafranca, France*	29.97	761.2	76	24.4	86	ese.			1		2		calm	0	0	sm'h		fair.
Marion, S. 34° 54′, W. 56° 13′	30.19	766.8	55	12.8	87	ene.			3		0					sm'h		clear.
Michigan, Chicago, Illinois	30.09	764.3	67	19.4	84	s.			2		0							clear.
Minnesota, New York, N. Y.	30.33	770.4	62	16.7	36	n.	5	2.2			0							
Monocacy, N. 37° 27′, E. 126° 33′	29.83	757.7	80	26.7	91	nw.			1		0							clear.
New Hampshire, Newport, R. I.	30.15	765.8	63	17.2	67	nw.			2		8		nw.			sm'h		fair.
Nipsic, Villafranca, France*	29.95	760.7	76	24.4	73	se.			2		0					sm'h		clear.
Onward, Callao, Peru†	30.16	766.1	60	15.6	94	sse.			2		2		n.			long	w.	clear.
Palos, Kobe, Japan*	29.77	756.1	75	23.9	68	ne.			3		10		ne.					cloudy.
Passaic, Washington, D. C.			63	17.2	100	ne.			1		2							fair.
Pensacola, S. 5° 02′, W. 81° 18′*	29.93	760.2	64	17.8	89	ese.			3		10		se.	0	0	long	se.	cloudy.
Portsmouth, Gibraltar, Mediterranean *	29.95	760.7	73	22.8	67	s.			3		5		s.			sm'h		clear.
Powhatan, Norfolk, Va.	30.25	768.6	73	22.8	72	n.			1		0							clear.
Quinnebaug, Alexandria, Egypt*	29.86	758.4	80	26.7	82	nw.			2		2		calm			sm'h		clear.
Ranger, Mare Island, Cal.	29.94	760.5	59	15.0	76	sw.			3		0			0	0			clear.
Richmond, Yokohama, Japan*	29.87	758.7	73	22.8	85	calm			0		5			0	0			fair.
Saratoga, N. 35° 56′, W. 4° 11′	29.98	761.5	79	26.1	91	w.			2		5		w.	0	0	sm'h		fair.
St. Louis, League Island, Pa.	30.51	774.9	63	17.2	29	calm			0		0			0	0			clear.
Swatara, N. 16° 45′, E. 109° 54′ *	29.57	751.1	84	28.9	87	sse.			3		5		s.			sm'h		fair.
Tennessee, Portsmouth, N. H †	30.27	768.8	60	15.6	82	w.	4	1.8			2			driz'l	driz'l			fair.
Vandalia, Portsmouth, N. H*	30.21	767.3	57	13.9	87	nw.			1		2		nw.					fair.
Wabash, Boston, Mass.	30.21	767.3	56	13.3	75	nnw.	4	1.8			2		nw.	0	0			clear.
Wachusetts, Fort Wrangle, Alaska	29.98	761.5	55	12.8	93	ne.			2		10		calm			sm'h		rainy.
Wyoming, Port Royal, S. C*	30.16	766.1	73	22.8	95	nne.	10	4.5			8		w.	0.26	6.6			cloudy.
Yantic, Portsmouth, N. H	30.24	768.1	57	13.9	81	nw.			1		2							clear.
MERCHANT MARINE.																		
Allan Line.																		
S. S. Circassian, N. 49° 20′, W. 66° 45′*	30.19	766.8	50	10.0	86	var.			1		3		nw.	0	0	sm'h		d. clouds.
S. S. Grecian, Aboukir Bay, Egypt *	29.88	758.9	80	26.7		nw.			4		2		nw.	0	0	sm'h		clear.
S. S. Nova Scotian, N. 51° 19′ W. 33° 40′	29.82	757.4	56	13.3		var.			1		10		sse.			mod.	w.	raining.
S. S. Polynesian, Liverpool, Eng*	29.40	746.7	60	15.6		w.			4		6		wsw.	0	0			cloudy.
S. S. Scandinavian, N 42° 24′, W. 67° 24′	29.93?	760.2?	62	16.7		nnw.			2		0			0	0	sm'h		blue sky.
S. S. Waldensian, N. 55° 10′ W. 23° 18′ *	29.85	758.2	56	13.3		sw.			6		8		wsw.	shr's	sh'rs	h'vy	wsw.	showery.
American Steamship Company.																		
S. S. British Crown, Delaware Bay †	30.32	770.1	71	21.7		ne.			3		0			0	0	sm'h		clear.
S. S. Indiana, Philadelphia, Pa †	30.22	767.6	68	20.0	90	n.			3		2		n.					fine.
S. S. Lord Clive, N. 47° 46′ W. 33° 17′ *†	30.09	764.3				sw.			4		7		sw.	0	0	mod.	wnw	hazy.
S. S. Lord Gough, N. 39° 21′, W. 72° 30′	30.19	766.8	69	20.6		n.			3		5		n.	0	0	sm'h		fair.
S. S. Ohio, N. 40° 09′ W. 52° 00′ †	30.12	765.0	80	26.7	95	s.			4		5		sse.			r'gh	sw.	
Amsterdam Line.																		
S. S. Stella, N. 40° 10′, W. 71° 24′	30.25	768.3	78.8	26		n.			2		2		n.	0	0	1	n.	d. clouds.
Anchor Line.																		
S. S. Alexandria, Denia, Spain	30.07	763.8	77	25.0		calm			0		9		s.	3 h'r	3 h'r			cloudy.
S. S. Bolivia, New York, N. Y. †	29.87	758.7	80	26.7		ene.			1		10			0	0			overcast.
S. S. Dorian, N. 40° 18′, W. 70° 05′*	30.08	764.0	69	20.6		nw.			2		0			0	0	sm'h		clear.
Atlas Line.																		
S. S. Ailsa, N. 34° 23′, W. 74° 20′ †	30.21	767.3	70	21.1	79	var.			3-5		10		ne.	10 h'r	10 h'r	mod.	nne.	dull.
S. S. Alene, Savanilla, U. S. C. †	29.90	759.4																
S. S. Antillas, Miragoane, Hayti, W. I. †	29.85	758.2	89	31.7		calm			0					0	0			
British Meteorological Office.																		
Auckland, S. 43° 39′ E. 85° 00′	29.34	745.2	44	6.7	100	sw.			6		8							showery.
S. Baroda, N. 14° 14′, W. 31° 00′	30.07	763.8	78.3	25.7	86	nw.			4		8							d. clouds.
S. S. Basil, N. 5° 37′, W. 31° 20′	30.02	762.5	77	25.0	91	sw.			3		10							overcast.
Bk. Caldew, S. 38° 18′ E. 26° 54′	29.96	761.0	65.8	18.8	90	nw.			5		6							misty.
S. S. Gordon Castle, N. 48° 48′, W. 21° 39′	30.07	763.8	63.8	17.8	94	wsw.			5		10							drizzling.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
British Meteorological Office.—Continued.																		
S. S. Humboldt, S. 34° 37′, W. 58° 04′	30.27	768.8	55.7	13.2	73	e.			6		2							blue sky.
S.S. Minho, S. 32° 59′, W. 51° 30′	30.26	768.6	54	12.2	97	ssw.			1		10							rain & fog.
California and Mexican Steamship Coepany.																		
S. S. Mexico, Magdalena Bay, Mexico*†	29.87	758.7	73	22.8	85	nnw.			1		5		nw.			sm'h		fair.
Cromwell Line.																		
S. S. Hudson, N. 37° 40′, W. 74° 25′ †	30.30	769.6	72	22.2		nnw.			1		4		w.	0	0			fair.
Cunard Line.																		
S. S. Marathon, off Port Said, Egypt	29.84	757.9	84	28.9		wnw.			3		1			0	0	sm'h	wnw.	clear.
Donaldson Line.																		
S. S. Colina, Glasgow, Scotland†	29.70	754.4				s.			4		5?		ssw.					cloudy.?
Guion Line.																		
S. S. Wisconsin, N. 51° 25′, W. 8° 04′	29.79	756.7	60	15.6		sw			5		10		sw.	0	0	mod.	sw.	hazy.
Hamburg American Packet Company.																		
S. S. Frisa, N. 42° 09′ W. 56° 58′*	30.01	762.2	69	20.6		ne.			3		9		ene.	0	0	mod.	nw.	cloudy.
S. S. Gellert, N. 41° 51′, W. 58° 19′	30.07	763.8	80	26.7		n.			2		8		n.	0	0	long	w.	fair.
S. S. Herder, New York, N. Y*	29.84	757.9	78	25.6		nw.			1		1		n.	0	0			clear.
S. S. Silesia, N. 51° 35′, E. 42° 58′	30.01	762.2	55.1	12.8		wnw.			5		7		wsw.	5 h'r	5 h'r	4–5	nw.	cloudy.
S. S. Vandalia, N. 47° 49′. W. 30° 25′*	30.17	766.3	60.4	15.8		sw.			6		10			0	0	long	sw.	foggy.
S. S. Westphalia, N. 50° 06′, W. 3° 15′	30.00	762.0	68	20.0	69	sw.			5		5		sw.	0	0	mod.	wsw.	fair.
Johnston Line.																		
S. S. St. Albans, N. 50° 51′, W. 12° 44′*†	30.00	762.0	66	18.9		w.			6		8		wnw.	0	0	short	w.	hazy.
Lampert and Holt's Line.																		
S. S. Archimedes, N. 51° 50′, W. 7° 30′†	29.85	758.2				sw.			6		10		sw.	3 h'r	3 h'r	long	sw.	hazy.
S. S. Hevelius, S. 22° 00′ W. 40° 00′*†	30.43	772.9	72	22.2		ne.			5		10		n.	0	0	long	se.	clear.
Mallory Line.																		
S. S. City of San Antonio, N. 30° 30′, W. 76° 00′*†	30.30	769.6				sw.			1		2		n.	0	0	mod.	e.	fair.
S. S. Colorado, New York, N. Y†	30.30	769.6	65	18.3		n.			3		0			0	0			clear.
S. S. San Marcos, N. 27° 47′ W. 89° 50′	29.98	761.5				ne.												fine.
Mediterranean and New York Steamship Co.																		
S. S. Archimede, Marseilles, France*†	30.04	763.0	80	26.7	78	wsw.			2		5		w.	0	0			fair.
Merchants' Express Line.																		
S. S. Freja, N. 41° 56′, W. 63° 34′†	30.18	766.6	67	19.4	95	wnw.			4		5			0	0	sm'h		fine.
S. S. Hermod, N. 44° 23′, W. 35° 40′†	30.33	770.4	78.8	26		sw.			4		4		w.	0	0	mod.	nw.	fair.
Merchants' Steamship Company.																		
S. S. Glenapp, Pernambuco, Brazil†	29.98	761.5				se.			3		3		se.	0	0			fine.
Morgan Line.																		
S. S. Chalmette, N. 35° 54′. W. 74° 35′†	30.29	769.4	75	23.9		ne.			4		5		ne.	3 h'r	3 h'r	sm'h	ne.	fair.
S. S New York, N. 38° 33′, W. 74° 20′†	30.15	765.8	73	22.8		nw.			4		0					small	nw.	clear.
National Line.																		
S. S. Canada, N 41° 17′ W. 58° 21′ †	30.01	762.2				ne.			1		10		n.	4 h'r	4 h'r		w.	drizzling.
S. S. Denmark, London, England	29.84	757.9	67	19.4		sw.			4		8		wsw.	0	0			cloudy.
S. S. England, N. 40° 34′, W. 68° 47′	30.22	767.6				nw			3		0			0	0	sm'h		clear.
S. S. Erin, N. 49° 35′, W. 7° 39′	30.05	763.3	61	16.1	77	sw.			6		10		sw.	6 h'r	6 h'r	r'gh	sw.	hazy.
S. S. Helvetia, N. 48° 40′, W. 27° 37′	30.09	764.3	71	21.7		sw.			2		10			0	0	slight	sw.	hazy.
S. S. The Queen, N. 49° 50′ W 5° 45′	29.96	761.0	58	14.4		ssw.			5		8		sw.	0	0	mod.	sw.	hazy.
New York and Cuba Mail Steamship Company.																		
S. S. Santiago, N. 21° 07′, W. 74° 02′†	30.12	765.0	80	26.7		ne.			4		2		e.	0	0	small		fine.
New York Havana and Mexican Mail.																		
S. S. City of Alexandria, N. 29° 32′ W. 77° 45′ †	30.17	766.3	83	28.3	87	ssw.			3		10		s.	3 h'r	3 h'r	small	se.	squally.
S. S. City of Puebla, N. 25° 03′, W. 79° 56′†	30.03	762.7	85	29.4		ene.			2		9		ene.			light	ese.	fair.
New York Herald Weather Service.																		
S. S. Amsterdam, N. 48° 27′ W. 38° 04′*	30.05	763.3	66	18.9		wsw.			3								w.	foggy.
North German Lloyd.																		
S. S. Donau, N. 40° 10′, W. 69° 56′	30.26	768.6				e.			1		2		se.	0	0	sm'h		clear.
S. S. Elbe, N. 47° 36′, W. 43° 17′	29.95	760.7	57.2	14.0	89	wsw.			2		10			8 h'r	8 h'r	sm'h	sw.	foggy.
S. S. Gen. Werder, N. 49° 55′, W. 32° 13′	29.89	759.2				wsw.			4		10			6 h'r	6 h'r	mod.	wsw.	rain & fog.
S. S. Graf Bismark, S. 7° 23′, W. 32° 57′	30.18	766.0	70.1	24.5		ese.			5		2		se.	0	0	cross	sse.	clear.
S. S. Habsburg, N. 47° 17′. W. 17° 23′	30.06	763.5	62.6	17.0		w.			4		10			11 h'r	11 h'r	r'gh	w.	cloudy.
S. S. Hohenstaufen, N. 49° 43′, W. 7° 21′	29.99	761.7	59.9	15.5		ssw.			6		10		ssw.	6½h'r	6½h'r	6	ssw.	drizzling.
S. S. Leipzig, N. 48° 07′, W. 24° 19′	30.18	766.0	65.0	18.3	100	sw.			5		8		sw.	0	0	mod.	wsw.	misty.
S. S. Main, N. 40° 24′, W. 70° 34′	30.13	765.3				nnw.			2		1		n.	0	0	sm'h	n.	clear.
S. S. Ohio, N. 39° 13′, W. 64° 54′	30.15	765.8				nw.			3		3		ene.	0	0	mod.	n.	fair.
S. S. Salier. N. 49° 05′, W. 23° 33′	30.11	764.8	58.1	14.5		w.			5		10		w.	0	0	mod.	w.	misty.
S. S. Strassburg, N. 50° 03′, W. 14° 13′	29.95	760.7	73.0	22.8	81	wnw.			5		5		wnw.	4 h'r	4 h'r	long	wnw.	fair.
Occidental and Oriental Steamship Company.																		
S. S. Arabic, N. 48° 09′, W. 164° 06′ †	30.03	762.7	56	13.3	94	w.			5		5		w.	0	0	sm'h		hazy.
S. S. Belgic, Hong Kong, China †	29.84	757.9	80	26.7	82	calm			0		2		sw.	2 h'r	2 h'r	mod.	s.	clear.
S. S. Coptic, N. 47° 14′, W. 168° 49′	30.12	765.0	50.0	10.0	?	w.			5		10		w.	10 h'r	10 h'r	3	w.	raining.
S. S. Gaelic, Hong Kong, China†	29.75	755.6	85	29.4	96	s.			4		10		sw.					raining.
Ocean Steamship Company.																		
S. S. City of Augusta, N. 34° 13′, W. 76° 42′ †	30.26	768.6				ne.			5		8?		ne.	0	0	short	ne.	clear?
S. S. Seminole, N. 37° 10′, W. 74° 40′†	30.27	768.8	74	23.3	72	n.			4		2		ne.	0	0	sm'h	ne.	clear.
Oregon Improvement Company.																		
S. S. Mississippi, N. 38° 51′ W. 123° 43′†	30.02	762.5	53	11.7	93	nnw.			5		0					mod.	nnw.	fair.
Oregon Railway and Navigation Company.																		
S. S. Oregon, Portland, Oregon †	30.03	762.7	57	13.9	94	calm			0		10		w.					hazy.
Pacific Coast Steamship Company.																		
S. S. Ancon, N. 34° 21′, W. 120° 03′†	29.84	757.9	63	17.2	83	nnw.			2		0					sm'h		clear.
S. S. City of Chester, San Francisco, Cal*†	29.12	739.6	54	12.2	93	nw.			2		1?		nw.					cloudy.?
S. S. Idaho, N. 39° 43′, W. 124° 07′ †	29.90	759.4	53	11.7	93	nw.			8		10		s.	0	0	r'gh	nw.	cloudy.
S. S. State of California, N. 40° 28′, W. 124° 30′†	29.98	761.5	52	11.1	?	nnw.			5		10		nw.			short	nw.	overcast.
S. S. Victoria, N. 48° 17′, W. 123° 32′†	29.98	761.5	53	11.7	100	calm			0		8			0	0	sm. h		hazy.
Pacific Mail Steamship Company.																		
S. S. Australia, S. 13° 18′, W. 170° 20′	29.85	758.2	72	22.2	90	ne.			3		10?			4 h'r	4 h'r	sm'h		clear ?
S. S. City of New York, Sydney, N. S. W †	30.10	766.1	62	16.7	83	s.			1		8		s.	2 h'r	2 h'r			cloudy.
S. S. City of Pekin, Yokohama, Japan †	30.12	765.0	74	23.3	81	sw.			1		2		sw.	0	0	sm'h		clear.
S. S. City of Tokio, N. 35° 26′ E. 139° 39′ †	30.02	762.5	76	24.4	86	se.			2		0			0	0			fine.
S. S. Colima, N. 8° 22′ W. 83° 50′ †	29.88	758.9	79	26.1	91	ese.			2		3		calm	0.10	2.5	sm'h	sse.	clear.
S. S. Colon, N. 17° 24′, W. 75 05′ †	30.05	763.3	84	28.9		e.			3		1		e.	0	0	sm'h	e.	clear.
S. S. Costa Rica, N. 24° 50′, W. 112° 30′ *	29.88	758.9	77	25.0	95	nw.			4		1		nw.	0	0	light	sw.	hazy.
S. S. Clyde, N. 35° 05′, W. 121° 41′†	29.95	760.7	58	14.4	76	wnw.			5		8		wnw.	0	0	long	wnw.	cloudy.
S. S. Grenada, N. 20° 01′, W. 105° 32′†	29.89	759.2	79	26.1	86	n.			1		2		n.	0	0	sm'h	ssw.	clear.
S. S. Zealandia, Auckland, New Zealand	30.40	772.1	57	13.9	87	s.			4		0					sm'h		clear.
Quebec Steamship Company.																		
S. S. Bermuda, N. 38° 00′, W. 72° 01′†	30.26	768.6	78	25.6		nnw.			2		3		nw.	0	0	gentle	n.	fine.
S. S. Muriel, Guadeloupe, W. I.	30.08	764.0	82	27.8		calm			0		10			0	0	sm'h		overcast.
Red D Line.																		
S. S. Caracas, N. 26° 05′, W. 68° 26′*†	30.10	764.5				ne.			5		3		ne.	shr's	shr's	mod.	e.	showery.
S. S. Valencia, La Guayra, Venezuela*†	30.20	767.1	83	28.3	83	ne.			2		2		ese.	0	0	sm'h	ne.	fine.
Red Star Line.																		
S. S. Belgenland, N. 40° 12′, W. 66° 30′†	30.29	769.4	67	19.4	84	nne.			8		8		nne.	0	0	mod.	ne.	
S. S. Nederland, N. 40° 19′, W. 69° 19′†	30.19	766.8	61	16.1	85	n.			1		0			0	0			clear.
S. S. Pennland, New York, N. Y.	30.26	768.6				n.			5		10		se.	0	0			fine.
S. S. Rhynland, N. 43° 30′, W. 45° 00′	30.24	768.1	77	25.0	86	sw.			6		2		sw.	0	0	long	sw.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
RED STAR LINE.—CONTINUED.																		
S. S. Switzerland, N. 48° 20′, W. 21° 00′†	30.18	766.6				w.			4		10		w.	o	o	mod.	w.	misty.
S. S. Vaderland, Antwerp, Belgium	29.83	757.7	64	17.8	73	ssw.			3		5		ssw.	o	o			fair.
S. S. Waesland, N. 47° 42′, W. 29° 21′	30.16	766.1	70	21.1	90	sw.			5		10		sw.	2 h'r	2 h'r	mod	sw.	hazy.
ROTTERDAM LINE.																		
S. S. Edam Amsterdam, Holland	29.89	759.2	68.0	20.0	97	s.			6		8		s.	11 h'r	11 h'r			fair.
S. S. Schiedam, N. 42° 59′ W. 56° 06′†	30.06	763.5	71.4	21.9	73	ene.			2		3		sw.	o	o	sm'h		cloudy.
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, Kingston, Jamaica, W. I.	30.04	763.0	79	26.1		calm			0		10		nw.	o	o			fair.
STATE LINE.																		
S. S. State of Florida, N. 54° 03′, W. 14° 55′	29.58	751.3	61	16.1		wnw.			6		9		w.	11 h'r	11 h'r	h'vy	w.	cloudy.
S. S. State of Georgia, N. 43° 35′, W. 57° 15′.†	30.05	763.3	63	17.2		n.			1		5		nne.	o	o	sm'h		hazy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 40° 25′, W. 71° 36′†	30.47	773.9	69.8	21.0	100	nne.			2		3		nne.	o	o	sm'h	nne.	clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 44° 25′ W. 30° 14′	30.37	771.4	75	23.9					3-4		2			o	o	2	wnw.	
WHITE STAR LINE.																		
S. S. Adriatic, New York, N. Y*†	30.36	771.1	62	16.7	94	w.			2		2		n.	o	o			light haze.
S. S. Baltic, N. 42° 24′ W. 60° 20′	30.09	764.3	64	17.8	83	nnw.			2		4		wnw.	o	o	1	w.	d. clouds.
S. S. Britannic, N. 40° 31′, W. 67° 32′†	30.24	768.1	61	16.1	88	n.			3		0			o	o	sm'h		blue sky.
S. S. Celtic, N. 50° 16′, W. 20° 42′†	30.08	764.0	62	16.7	83	wnw.			3		10		w.	4 h'r	4 h'r	mod.	wsw.	overcast.
S. S. Germanic, N. 50° 59′, W. 23° 46′†	30.09	764.3	58	14.4		w.			3		8		w.	o	o	r'gh	w.	d. clouds.
S. S. Republic, Liverpool, Eng†	30.03	762.7	67	19.4	95	w.			5		8		wsw.	sh'rs	shr's			d clouds.
WILSON LINE.																		
S. S. Otranto, N. 50° 17′, W. 29° 52′†	30.14	765.5	62	16.7		sw.			5		10		sw.			cross	s.	hazy.
S. S. Romano, New York, N. Y.	30.29	769.4	78	25.6		n.			1		0			o	o			fine.
S. S. Salerno, N. 50° 50′, E. 0° 58′*	29.70	754.4	62	16.7		sw.			6		9		sw.	o	o	hv'y	sw.	
WINSOR LINE.																		
S. S. Catherine Whiting, Fire Island, N. Y†	30.30	769.6	70	21.1		nnw.			1					o	o	light	e.	
MISCELLANEOUS.																		
Bk. Adelaide, N. 24° 19′, W. 52° 24′*†	30.24	768.1	85	29.4		ese.			4		1		se.	2 h'r	2 h'r	mod.	ese.	fair.
Bk. Alpha, Flensburg, Prussia†	29.81	757.2	72	22.2		ssw.			3		6		sw.	o	o			squally.
Sch. Anna A. Holton, N. 31° 17′ W. 69° 18′†	30.09	764.3	83	28.3		w.			4		5		w.	o	o	mod.	sw.	
Bk. Anna Thorman, S. 20° 01′, E. 107° 06′	30.14	765.5	68.0	20.0	72	sse.			5	2 ck		e.		o	o	long	sw.	fair.
S. S. Antonio Lopez, N. 43° 29′, W. 11° 32′*	30.29	769.4	66	18.9	64	nw.			2		10			o	o	sm'h		cloudy.
Bk. Aureola, N. 15° 08′, W. 49° 00′*†	30.15	765.8	85	29.4		e.			4		1		ene.	1 h'r	1 h'r	mod.	ne.	clear.
Bk. B. F. Watson, N. 10° 17′, W. 32° 00′†	29.96	761.0	82	27.8		ne.			4		1			2 h'r	2 h'r	sm'h		fine.
Bk. Bergenseren, N. 41° 20′, W. 23° 30′†	30.39	771.9				ssw.			2		1		sw.	o	o	1	nw.	clear.
Bk. Bremen, N. 48° 58′, W. 37° 24*†	30.02	762.5				sw.			6		10		sw.	24 h'r	24 h'r	r'gh	sw.	foggy.
S. S. Burswell, N. 48° 16′, W. 14° 22′*†	29.94	760.5	71	21.7		wsw.			4		10		wsw.	15 h'r	15 h'r	str'g	wnw.	
Bk. Cato, N. 55° 50′, E. 16° 40′*†	30.24	768.1				w.			1									foggy.
Bk. Celestina, N. 20° 36′ W. 31° 26′*†	30.05	763.3				ne.			2		0			o	o	sm'h		clear.
S. Dora, S. 21° 45′ W. 34° 20′†	30.42	772.7	75.2	24.0		e.			4-5		6 k		sse.	rain	rain	mod	ese.	cloudy.
Schr. Edith R. Seward, Baltimore, Md*†	30.36	771.1	70	21.1		s.			1		1		calm	o	o			clear.
S. E. J. Spicer, N. 44° 00′, W. 38° 50′*	30.22	767.6	77	25.0		sw.			6		0			o	o	mod.	wnw.	clear.
S. Enoch Train, Borkum Id, Germany†	30.00	762.0				nnw.			4		10		nnw.	4 h'r	4 h'r	sm'h		heavy rain.
Bk. Essex, Aden, Arabia*†	29.82	757.4	88	31.1		sw.			4		2		sw.	½ h'r	½ h r	sm'h	sw.	clear.
Bk. Franklin, N. 56° 38′, E. 11° 55′*†	30.21	767.3				var.			1		5			o	o	sm'h		misty.
Bk. Freya, N. 41° 27′, W. 47° 36′			78	25.6		s.			4		0			o	o	cross		clear.
S. Glendon, N 33° 35′, W. 47° 50′†	30.25	768.3	84	28.9		se.			3		9		se.	o	o	sm'h		fair.
Bk. Godfrey, N. 21° 38′, W. 24° 40′	30.04	763.0	77.9	25.5	73	nne.			4-5		5		n.	o	o	mod.	nne.	hazy.
S. Grecian, N. 8° 50′, E. 111° 04′*†	29.88	758.9	83	28.3		sw.			3		0			o	o	sm'h		clear.
Bk. Gronsvaer, N. 10° 50′, W. 29° 10′†	29.90	759.4				ene.			3		2		e.	o	o	mod.	se.	fair.
Bk Hattie G. McFarland, Bath, Maine*†	30.30	769.6	68	20.0		nne.			1		0			o	o			clear.
Schr. Hattie Weston, N. 32° 35′, W. 73° 20′*†	30.28	769.1	81	27.2		calm			0		10		w.	2 h'r	2 h'r	mod	w.	cloudy.
Bk. Heinrich & Tonio, N. 50° 36′, E. 0° 04′*†	30.29	769.4	61	16.1		wsw.			4		0			o	o	sm'h		clear.
Schr. Henry Denison, N. 29° 18′ W. 70° 25†	30.08	764.0				calm			0		4		calm.			long	e.	fair.
S. Ivy, S. 53° 23′ W. 80° 24′†	29.46	748.3	42	5.6		nw.			7		10		nnw.	o	o	r'gh	nw.	drizzling
S. Ismir, N. 9° 50′ E. 109° 40′†	29.87	758.7				w.			1		5		w.	o	o	sm'h		fine.
Schr. Jennie N. Huddell, Lynn, Mass†	30.17	766.3	64	17.8	89	nnw.			2		2			o	o			threatening.
Schr. John L. Thomas, N. 35° 05′, W. 73° 02′*†	30.28	769.1				n.			2		3		nw.	o	o	con.		fine.
Bg. John Wesley, Guantanamo, Cuba, W. I†	29.88	758.9				ne.			1		2		ese.	½ h'r	½ h'r			clear.
Bk. Joseph A. Ropes, S. 33° 53′, E. 39° 30′*†	30.42	772.7	65	18.3	73	nne.			5		4		nne.	2 h'r	2 h'r	mod.		fair.
Bkt. Josephine, Havana, Cuba, W. I.†	30.02	762.5	80	26.7	78	ese.			2		2			2 h'r	2 h'r			fair.
S. S. Lamperts, N. 37° 32′, E. 24° 14′*	29.90	759.4	78.5	25.8	70	ne.			4		1 k							misty.
Light House Tender, Laurel, Key West, Florida†	30.09	764.3	84	28.9		se.			2		8		se.	o	o			cloudy.
S. S. Madrid, N. 55° 11′, W. 20° 02*†	29.70	754.4	54	12.2		sse.			7		7		wnw.	4 h'r	4 h'r	high	wnw.	squally.
Schr. Maggie Abbott, N. 19° 26′, W. 72° 43′†	29.98	761.5									2		e.	o	o			
S. S. Malabar, N. 38° 28′, W. 144° 31′†	30.25	768.3				sw.			2		0			o	o	sm'h		clear.
S. Minnie N. Gerow, N. 36° 03′, W. 4° 31′.†*	29.95	760.7				w.			4		5		w.			sm'h	e.	fine.
S. M. P. Grace, S. 16° 12′, W. 105° 45′*	30.08	764.0	75	23.9		se.			3				sse.	o	o	long	sw.	squally.
Bk. National Eagle, N. 47° 14′, W 11° 24′†	30.12	765.0				wnw.			4		10			3 h'r	3 h'r	mod.	nw.	dense fog.
S. S. Nebo, N. 36° 54′, W. 30° 05′*†	30.12	765.0				n.			3		1		nne.	o	o	long	nw.	clear.
S. Oracle, N. 34° 34′, W. 49° 00′*	30.26	768.6	80	26.7	90	sse.			1		3 k					mod.	s.	clear.
S. Orealla, N. 10° 12′, W. 29° 40′*	29.87	758.7				nne.			3		8		nne.	o	o	cross		cloudy.
Bk. Rosebud, S. 26° 19′, E. 59° 38*†	30.30	769.6	68	20.0	94	sw.			7					20 h'r	20 h'r	hv'y	sw.	
S. St. Francis, N. 33° 50′, W. 39° 49′†	30.37	771.4	81	27.2		ese.			4		3		e.	0.25	6.3	sm'h	ese.	fine.
Schr. S. B. Hubbard, Gardiner, Me†	30.23	767.8	62	16.7		ne.			3		2		ese.	o	o			fine.
Bk. Sunbeam, N. 38° 15′, W. 21° 41′†.	30.50	774.7	72	22.2	80	ne.			3		8		ne.	o	o	mod.	nw.	cloudy.
S. S. Sunbeam, Rotterdam, Holland	29.94	760.5	70	21.1	71	wnw.			4		4		wnw.					d. clouds.
S. Sovereign of the Sea, S. 55° 59′, W. 64° 16′*†	29.18	741.2	34	1.1	100	wsw.			6		10		wsw.	18 h'r	18 h'r	r'gh	wsw.	snowing.
U. S. F. C. S. S. FishHawk, Wood's Hole, Mass†	30.39	771.9	62	16.7	88	nne.			3		3		ne.	o	o			clear.
Schr. Victor Ping, N. 16° 50′, W. 67° 48′*†	30.03	762.7				calm			0		2		nw.			mod	nne.	fair.
Bk. Vincenzo Accame, N. 39° 42′, W. 65° 07′†	30.32	770.0	73.4	23		n.			7		0							clear.
Schr. Viola Reppard, Savannah, Ga†	30.16	766.1	81	27.2		ne.			2		10		ne.	o	o			cloudy.
Bkt. Wandering Jew, N. 40° 37′, W. 70° 23′*†	30.21	767.3	68	20.0		nne.			4		2		n.	o	o	sm'h		clear.
Bg. Wauburn, N. 26° 37′, W. 74° 03′*†	30.10	764 5				e.			4		4		ne			sm'h	e.	¾ covered.
Bk. Warden Law N. 51° 03′, W. 12° 44′*	30.01	762.2				w.			2		6		w.	6 h'r	6 h'r	mod.	w.	hazy.
S. Wm. Woodbury, N. 59° 24′ E. 0° 53′*	29.90	759.4	62	16.7	77	se.			1		2		se.			sm'h	se.	cloudy.

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 21, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.05	763.2	81.3	27.4	80	s.			1		0			0	0	clear	Bouvier.
Algiers			30.01	762.2	79.5	26.4	73	nw.			2		0			0	0	clear	Thève.
La Calle			30.04	763.1	85.6	29.8	73	n.			1		3			0	0	pretty fair	Fonfrède.
Tunis			30.07	763.7															Jacques.
Saida			30.09	764.3															Perès.
Tebessa			30.11	764.8	81.3	27.4	35	n.			1		2			0	0	fair	Rigaud.
Geriville					84.2	29.0	17	wnw.			5		2			0	0	fair	Louchamp.
Laghouat			30.12	765.1	96.8	36.0	33	w.			1		0			0	0	clear	Abraham.
Biskra			30.11	764.8	96.1	35.6	29	sw.			2		6			0	0	cloudy	Malau.
Australian.																			
Melbourne, Victoria	30.05	763.3	30.14	765.5	52.0	11.1	82	se.	4	1.8			7			0.02	0.5	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.36	745.8	29.89	759.2	73.4	23.0	67	e.			1		9			0.146	3.7		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.10	739.0	29.84	757.9	68.0	20.0	66	wnw.	6.7	3.0			8			0.008	0.2		Dr. Wierzbiski.
Eperies	29.00	736.6	29.84	758.0	71.6	22.0	80	calm			0		9 ks		s.	1.252	31.8		Julius Mikolik.
Gratz	28.72	729.5	29.95	760.7	62.2	16.8	93	w.			2		10			0	0		Andreas Rospini.
Hermannstadt	28.50	723.8	29.85	758.2	77.5	25.3	48	nnw.			1		5			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.59	726.1	29.90	759.4	62.1	16.7	83	calm			0		10			0.579	14.7	raining	The Staff.
Lemberg	28.87	733.2	29.81	757.2	71.6	22.0	68	nw.			3		6			0.268	6.8		Dr. T. Stanecki.
Pola	29.81	757.1	29.91	759.8	77.2	25.1	75	s.			3		8			0	0		I. R. Hydrographic Office.
Szathmar	29.40	746.8	29.85	758.1	76.3	24.6	56	sw.			2		3			0.004	0.1		Joseph Midlinszky, S. J.
Szegedin	29.57	751.1	29.83	757.7	85.6	29.8	35	sw.			1		0			0	0		Karl Stancel.
Trieste	29.82	757.4	29.92	760.0	69.8	21.0	74	calm			0		10			0.913	23.2		Royal Academy.
Vienna	29.25	743.0	29.96	760.9	61.9	16.6	91	calm			0		10			0.138	3.5	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.20	741.7	29.29	744.0	62.3	16.8	61	ssw.	10	4.5			9			0.080	2.0	overcast	W. Boswell
Armagh, Observatory	29.45	748.0	29.68	753.9	58.0	14.4	69	wnw.	12	5.4			3					squally	S. Call.
Bidston, Liverpool Obs'y			29.65	753.1	58.2	14.6	67	w.	43	19.2			9					overcast	John Hartnup.
Bolton, Sharples	29.11	739.4	29.64	752.8	56.1	13.4	77	wsw.	36	16.1			9					raining	Thomas Mackereth.
Bradford, Yorkshire	29.20	741.7	29.60	751.8	59.6	15.3	67	nw.			3		10			0.02	0.5	raining	McLandsborough & Preston
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	84.0	28.9	71	se.			1		3					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			29.70	754.4	62.0	16.7	71	w.			3.0		8					overcast	John McLaren.
Chatham, School M. E.	29.64	752.8	29.77	756.1	62.0	16.7	58	sw.			1		8					gloomy	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.70	754.4	29.92	760.0	63.1	17.3	69	w.			4		7					d. clouds	The Staff.
Fort Napier, Natal	27.72	704.1	29.94	760.5	80.0	26.7	9	e.			1		2					blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.66	753.4	29.89	759.2	78.0	25.6	86	sw.			3		5					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.05	763.3	30.10	764.5	80.5	26.9	84	e.			4		5					d. clouds	Corpl. F. Norris, A. H.C
Glasgow, Observatory	29.25	742.9	29.45	748.0	56.0	13.3	77	w.			6		10					squally	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.57	751.1	29.74	755.4	63.3	17.4	55	w.			4		8					d. clouds	The Staff.
Guernsey	29.65	753.1	29.94	760.5	60	15.6	82	wnw.			2		8					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.73	755.1	29.77	756.1	62.5	16.9	46	w.	20	8.9			9					threatening	The Staff.
Leicester, Museum	29.44	747.8	29.69	754.1	58.5	14.7	67	w.			1		9					overcast	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.01	762.2	84.0	28.9	77	sw.			2		2					blue sky	W. D. Ballau.
Nassau, Bahamas	30.10	764.5	30.15	765.8	83.5	28.6	74	e.			3		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.20	741.7	29.71	754.0	57.0	13.9	71	w.			6		9					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.53	750.0	29.76	755.9	60.3	15.7	59	w.			4		8					squally	The Staff.
Plymouth	29.81	757.2	29.89	759.2	66.7	19.3	66	w.			3		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.22	742.2	60.5	15.8	73						4					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.81	757.2	29.87	758.7	86.4	30.2	39	ne.			2		1					blue sky	W. H. Lyne.
Sheffield	29.36	745.7	29.64	752.8	60.7	15.9	73	sw.			5		5			0	0	d. clouds	W. F. Cooper.
Stiloth Rectory	29.50	749.3	29.53	750.0	58.7	14.8	78	wsw.			6		10			0.035	0.9	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.63	752.6	57.4	14.1	71	w.	33	14.8			9					d. clouds	I. New.
Straifield Turgiss					63.2	17.3	57	w.			3-4		8					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.91	759.7	29.92	760.0	66	18.9	64	nw.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.94	760.5	29.96	761.0	59.6	15.3	68	w.	20	8.9			7					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.20	767.1	30.24	768.1	59	15.0	66	ne.	12	5.4		0	5 s		ne.	0.040	1.0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.27	768.8	30.33	770.4	49	9.4	93	calm	0	0		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	30.26	768.6	30.28	769.1	52	11.1	83	w.	6	2.7		2 cs	0	w.		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.09	738.9	29.89	759.2	59	15.0	93	se.	10	4.5		4 k;s	0	w.		0	0	fair	James Stewart.
Halifax, N. S*	30.09	764.3	30.22	767.6	59	15.0	78	n.	8	3.6		8 k	0	n.		0	0	cloudy	A. Allison.
Kingston, Ontario*	29.96	761.0	30.29	769.4	65	18.3	87	s.	4	1.8		5 cs	0	calm		0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	30.11	764.8	30.31	769.9	59	15.0	84	w.	3	1.3		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.57	751.1	30.26	768.6	60	15.6	100	ne.	3	1.3		2 k	8 n	n.	n.	0	0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.59	751.6	30.27	768.8	61	16.1	88	calm	0	0		4 k	0	w.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.60	751.8	30.23	767.8	67	19.4	97	e.	2	0.9		2 k	5 k	nw.	nw.	0	0	cloudy	M. Payne.
Quebec, Quebec*	30.00	762.0	30.32	770.1	50	10.0	80	w.			1	0	hz.			0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.81	757.2	30.26	768.6	59	15.0	81	calm	0	0		3 ck	0	w.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.52	749.8	30.22	767.6	62	16.7	75	se.	4	1.8			10 ks			0	0	cloudy	
St. Andrews, N. B	30.21	767.3	30.26	768.6	51	10.6	79	n.	4	1.8		0	0			0	0	clear	
Sydney, C. B*	30.13	765.3	30.19	766.8	58	14.4	83	n.	13	5.8			10 n		ne.	0.05	1.3	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.92	760.0	30.30	769.6	60	15.6	87	calm	0	0		5 cs	5 s	w.		0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.20	767.1	30.26	768.6	53	11.7	80	ne.	2	0.9		0	0			0	0	clear	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.87	733.3	30.27	768.8	60.5	15.8	88	wsw.			2	10 kn	0	wsw.		0.334	8.5	cloudy	Wm. Wylie.
St. Johns, Newfoundland	30.10	764.5	30.35	770.9	53	11.7	86	n.	1	0.4			10			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.16	766.1	30.18	766.6	63.5	17.5	91	ne.	11.3	5.1		9 ck	0			0	0	hazy	C. Hansen.
Cape Town, C. G. H. Obs'y	30.11	764.8	30.14	765.5	64.0	17.8	77	nw.	7	3.1		9	8			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
Chinese (*Sub-series*).																			
Hankow																			
Zi-Ka-Wei, near Shanghai	29.69	754.2	29.72	754.9	76.5	24.7	89	ese.	3.4	1.5		10c	0			0	0	foggy	N. Titoushkin. M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.52	749.7	29.56	750.9	62.2	16.8	65	ssw.	16	7			9						Oversergent Fischer.
Fanöe	29.39	746.6	29.41	747.1	58.5	14.7	100	sse.			4		10					raining	Overloerer Lauridsen
Godthaab, Greenland	29.84	757.8	29.88	758.9	40.3	4.6	92	s.			2		10			0	0	foggy	S. Kleinschmidt.
Ivigtut	29.82	757.3	29.84	757.8	39.9	4.4		nw.			2		10					foggy	
Stykkisholm, Iceland	29.72	754.9	29.76	756.0	44.2	6.8	76	ne.			6		8						A. O. Thorlacius.
Thorshavn	29.22	742.1	29.25	743.0	53.8	12.1	95	e.	7	3			10					raining	Overloerer Bergh.
Vestervig	29.33	744.9	29.42	747.2	61.2	16.2	77	s.			6		10						Loearer Oesterbol.
French.																			
Agen, Normal School	29.55	750.6	30.19	766.8	69.1	20.6	83	wsw.			1	2c	kn		sw.	0	0		M. Labroue, Director.
Alençon, Normal School	29.47	748.5	30.00	762.1	66.2	19	63	w.			4		k	w.	w.	0	0		M. Nicot, Director.
Arras, Engineer School	29.58	751.3	29.83	757.7	61.7	16.5	98	sw.			8		kn			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.93	760.2	30.01	762.2	84.6	29.2	33	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.42	747.2	29.97	761.2	61.7	16.5	84	s.			3		10		sw.			light rain	M. Saillard, Director.
Beauvais, Normal School	29.64	752.8	29.89	759.3	65.3	18.5	57	wsw.			2		10		w.	0.008	0.2	covered	M. Frère Eugène Maris.
Besançon, Normal School	29.10	739.2	29.97	761.2	65.8	18.8	81	s.			1		10		nw.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.87	758.7	30.13	765.3	65.5	18.6	91	wsw.			1		10					light rain	M. Rayet, Director.
Bourges, Normal School	29.46	748.3	30.00	762.0	63.5	17.5	86	s.							s.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.81	757.2	30.06	763.4	66.2	19.0	83	w.			2		10		w.	0.079	2.0	hazy	M. de Kermaree, Dir.
Caen, Normal School	29.84	757.9	29.91	759.8	57.9	14.4	84	w.			2		5		w.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.57	751.0	29.88	758.9	66.6	19.2	83	sw.			4		8			0	0	very cloudy	M. Jadot, Director.
Charleville, Normal School	29.33	745.0	29.83	757.6	64.8	18.2	65	w.			2		10			0.04	1.	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.72	729.6	30.05	763.3	66.4	19.1	64	se.			1		8		w.	0.472	12.0	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.23	742.5	30.06	763.6	68.2	20.1	42	wnw.			2		9		sw.	0.04	1.		M. de Villemontée, Dir.
Commercy, Normal School	28.18	715.8	29.93	760.3	59.0	15	78	wsw.			3		10 n	wsw.	wsw.			light rain	Dr. Coulet, Director.
Gap, Normal School	27.43	696.6	29.85	758.2	75.2	24	40	s.			3	0	3 k		s.	0	0		M. Jeanglrard, Director.
Grésque, du Rhone	28.93	734.8	30.00	762.0	79.2	26.2	56	nw.			4		1		nw.	0	0		M. Klua, Director.
Grenoble, Normal School	29.19	741.5	29.93	760.2	74.8	23.8	42	nw.			2		cks	nw.	n.	0	0		M. Ablard, Director.
Lamballe, Normal School					68.7	20.4	62	w.			2		5		w.	0.020	0.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.47	748.5	30.02	762.6	71.6	22.0	59	w.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.97	761.1	30.07	763.7	65.8	18.8	77	w.			2		10		w.	0	0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.02	737.1	30.04	763.1	71.1	21.7	41	w.			1	0	5 cn		nnw.	0.012	0.3	½ covered	M. André, Director.
Mans, Normal School	29.69	754.0	29.99	761.7	67.5	19.7	53	nw.			4		5		nw.	0	0	cloudy	M. Piboeu, Director.
Marseille, Observatory	29.74	755.4	30.00	762.1	73.2	22.9	55	wnw.			2		0			0	0		M. Stephan, Director.
Montlouis	24.98	634.5	29.82	757.5	67.6	19.8	70	w.	9.4	4.2						0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.86	758.5	29.97	761.1	81.9	27.7	83	w.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.13	740.0	29.91	759.6	60.4	15.8	73	s.			3		10 n			0	0	covered	M. Hasse, Director
Nantes, Observatory	29.90	759.5	30.06	763.6	70.5	21.4	59	wsw.			2–3	0	9 k;kn		wnw.	0.028	0.7		M. Larocque, Director.
Perpignan, Observatory	30.00	762.1	30.11	764.7	75.7	24.3	44	nw.	16.8	7.5			1		nw.	0	c		Dr. Fines, Director.
Pic-du-Midi, Summit	21.47	545.4			44.6	7.0		nw.			1		10		nw.	0.024	0.6	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.02	737.1	30.05	763.3	73.4	23	59	n.			1		2			0.12	3.	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.22	640.7			45.5	7.5	100	w.			6		10			0.067	1.7	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	30.07	763.8	30.10	764.6	69.4	20.8	76	w.			3		8		wsw.	0.12	3.	¾ covered	Lt. E. Decaute, Director.
Roche-sur-Yon, N. School	29.83	757.6	30.04	762.9	66.7	19.3	77	w.			1		5		e.	0	0	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.03	712.0	30.13	765.4	62.2	16.8	70	w.			1		5		sw.	0	0	cloudy	M. Seger, Director.
Rouen, Normal School	29.85	758.1	29.89	759.3	65.1	18.4	60	w.			3		5	e.		0.04	1.	cloudy	M. Brotier.
Saint Maur, Observatory	29.75	755.7	29.92	759.9	66.4	19.1	61	w.			2		8		w.	0	0		M. Renou, Director.
Toulouse, Observatory	29.49	749.0	30.22	767.5	74.5	23.6	52	nnw.			2		8	nw.		0	0	very cloudy	M. Baillaud, Director.
Tours	29.82	757.3	29.99	761.8	71.6	22.0	49	wsw.			2		10	nne.	wsw.			hailing	M. de Tastes.
Versailles, Observatory	29.44	747.8	29.93	760.3	66.9	19.4	60	w.			1					0.028	0.7		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.63	752.5	29.92	759.9	65.5	18.6	59	wsw.			2		9		wnw.	0	0		M. Marié Davy, Director
German.																			
Ansbach	28.47	723.1	29.87	758.8	65.5	18.6	50	sw.			4		7	sw.		0	0		Prof. Jnedt.
Bamberg	29.04	737.6	29.89	759.2	62.1	16.7	70	wsw.			3	0	8 n		w.	0.039	1.0	raining	Prof. Dr. Hoh.
Berlin	29.58	751.3	29.75	755.7	66.6	19.2	56	sw.			2		9			0.055	1.4		Prof. Dr. Arndt.
Breslau	29.35	745.6	29.88	759.0	68.7	20.4	47	wsw.			2		7			0.016	0.4		Royal University Obs'y.
Carlsruhe	29.45	748.0	29.87	758.8	66.2	19.0	61	sw.			5		10	sw.		0.217	5.5		Albert Senz.
Cassel	29.01	736.9	29.72	755.0	60.3	15.7	76	sw.			7		8	sw.		0.181	4.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.48	748.7	29.84	757.9	61.5	16.4	81	sw.			1		10			0.059	1.5		Physical Society.
Friedrichshafen	28.54	724.8	29.93	760.2	67.3	19.6	68	w.			4		5	w.		0.402	10.2		Wilhelm, Chief Tel.
Hamburg	29.55	750.6	29.64	752.9	57.2	14.0	91	ssw.			5		10			0.362	9.2		E. Preller.
Kiel	29.54	750.4	29.56	750.8	58.5	14.7	90	ssw.			4		10			0.248	6.3		Prof. Dr. G. Karsten
Leipsic, Astron'l Obs'y	29.40	746.7	29.81	757.1	65.7	18.7	58	wsw.			5		9	wsw.		0.094	2.4	raining	H. Leppig, Asst.
Magdeburg	29.56	750.8	29.74	755.5	60.4	15.8	86	ssw.			3		10 ks		w.	0.232	5.9		Dr. Assmann.
Memel	29.70	754.4	29.75	755.6	69.8	21.0	74	wnw.			5		10 s						Issermann.
Munich	28.13	714.6	29.99	761.8	70.0	21.1	53	w.			2		4	sw.		0.035	0.9		Dr. C. Lang.
Neufahrwasser	29.73	755.1	29.74	755.5	69.3	20.7	48	wsw.			2		3			0.433	11.0		A. Lothes.
Neustadt, Palatinate	29.30	744.3	29.83	757.6	65.7	18.7	67	wsw.			1		9	sw.		0.181	4.6		Dicknether.
Stuttgart	28.95	735.3	29.81	757.2	67.5	19.7	56	w.			3		9	w.		0.260	6.6		Prof. Dr. Schoder.
Wustrow	29.65	753.0	29.67	753.6	59.4	15.2	86	s.			5		10 k		s.	0.445	11.3		Profs. Brandes & Reimer
Greek.																			
Athens	29.56	750.7	29.92	760.0	86.5	30.3		sw.			0.5		0			0	0	clear	Schmidt & Wourlisch
Indian.																			
Kurrachee	29.70	754.3	29.75	755.5	83.0	28.3	79	wsw.	28.0	12.5			4		w.	0	0	d. clouds	
Deesa	29.23	742.3	29.69	754.2	85.5	29.7	56	sw.	4.0	1.8			10	ssw.	sw.	0	0	overcast	
Bombay	29.78	756.4	29.82	757.4	81.7	27.6	78	wnw.	12.0	5.4			10	w.	wnw.	0.02	0.5	overcast	
Poona, Yarrowda	27.94	709.7	29.80	756.8	77.8	25.4	61	wnw.	20.0	8.9			8	w.	w.	0	0	d. clouds	
Trichinopoly	29.48	748.9	29.76	755.8	90.1	32.3	47	n.	1.0	0.4			6			0.22	5.6	d. clouds	
Bellary	28.26	717.9	29.70	754.3	90.2	32.3	37	nw.	11.3	5.0			4			0	0	d. clouds	
Belgaum	27.27	692.7	29.81	757.2	74.7	23.7	75	w.	10.0	4.5			9	se.	nw.	0	0	d. clouds	
Lahore	28.82	732.0	29.53	750.2	96.0	35.6	50	calm	0	0			0			0	0	blue sky	
Roorkee	28.71	729.3	29.59	751.5	90.6	32.6	67	calm	0.6	0.3			5			0	0		
Agra	29.07	738.3	29.63	752.6	81.3	27.4	87	nw.	8.0	3.6			9		n.	0.32	8.1	drizzling	
Nagpur	28.63	727.3	29.66	753.4	83.2	28.4	61	wnw.	6.0	2.7			9		w.	0.06	1.5	gloomy	
Jubbulpore	28.33	719.6	29.69	754.2	75.8	24.3	95	nw.	4.1	1.8			10		nw.	0.47	11.9	drizzling	
Lucknow	29.24	742.6	29.61	752.0	88.1	31.2	66	calm	1.8	0.8			5		w.	0	0	d. clouds	
Allahabad	29.29	743.9	29.60	751.8	78.8	26.0	98	se.	1.0	0.4			10			1.29	32.8	raining	
Patna	29.43	747.6	29.62	752.3	84.4	29.1	81	e.	7.6	3.4			8	e.	e.	0	0	d. clouds	
Hazaribagh	27.61	701.2	29.59	751.7	80.3	26.8	79	s.	6.8	3.0			10	s.	n.	0.25	6.4	thnd'r str'm	
Cuttack	29.58	751.2	29.66	753.3	85.0	29.4	78	ssw.	2.4	1.1			5			0	0	d. clouds	
Calcutta, Alipore	29.64	752.7	29.66	753.3	83.0	28.3	79	s.	2.0	0.9			10	sw.		0.36	9.1	overcast	
Dhubri	29.57	751.2	29.69	754.2	80.4	26.9	90	calm	0	0			3			0	0	d. clouds	
Chittagong	29.65	753.1	29.74	755.4	80.7	27.1	88	se.	4.1	1.8			10			0	0	overcast	
Sibsagar	29.38	746.2	29.71	754.6	82.1	27.8	90	w.	2.0	0.9			2			0.30	7.6	blue sky	
Jeypore	28.24	717.2	29.67	753.6	81.6	27.6	76	w.	4.3	1.9			8		w.	0.03	0.8	d. clouds	
Zanzibar, Africa	30.07	763.8			80.9	27.2	56	se.	8.4	3.8			2			0	0	d. clouds	
Italian.																			
Udine	29.54	750.4	29.94	760.5	67.6	19.8	75	calm	0	0			8			0.272	6.9		Prof. Giovanni Cloelig.
Milan	29.42	747.2	29.91	759.8	77.9	25.5	53	sw.	3.1	1.4			4	sse.		0.236	6.0		Prof. Schiaparelli.
Padua	29.83	757.7	29.94	760.4	71.4	21.9	70	ne.	5.6	2.5			4	w.		1.252	31.8		Prof. Dott. Lorenzoni.
Moncalieri	29.02	737.1	29.89	759.3	77.2	25.1	55	ssw.	1.8	0.8			5	ne.		0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Genoa	29.74	755.5	29.93	760.2	77.0	25.0	64	se.	7.4	3.3			0			0.665	16.9		Prof. G. M. Garibaldi
Mondovi	28.04	712.2	29.87	758.8	74.3	23.5	53	ne.			2		0			0	0		Prof. D. O. Bruno
Pesaro	29.89	759.1	29.93	760.3	73.4	23.0	73	nne.	11.9	5.3			10	w.		0.177	4.5		Prof. Luigi Guidi.
Florence	29.69	754.1	29.93	760.3	77.4	25.2	68	nw.			2		10	sw.		0	0		Prof. Costantino Pit'er
Leghorn	29.81	758.2	29.89	759.3	79.2	26.2	70	sw.	1.8	0.8			5	w.		0	0		Prof. P. Monte.
Rome	29.82	757.3	29.98	761.6	82.4	28.0	51	ssw.	8.1	3.6			8			0	0		Prof. P. Tachini.
Lecce	29.69	754.1	29.93	760.2	83.8	28.8	35	sw.	11.9	5.3			0			0	0		Prof. O. de Giorgi
Cosenza	29.10	739.2	29.93	760.3	83.8	28.8	72	wsw.	3.1	1.4			0			0	0		Prof. D. Conti.
Cagliari	29.77	756.2	29.96	761.0	81.5	27.5	58	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.79	756.6	30.03	762.7	79.5	26.4	58	ne.	8.7	3.9			4			0	0		Prof. G. Ciacciatore.
Syracuse	29.91	759.8	29.96	760.9	84.9	29.4	64	nne.	9.8	4.4			2	nne.		0	0		Prof. Vincenzo Gulliano
Sub-series.																			
Naples, S. R	29.47	748.6	29.98	761.4	79.7	26.5	65	sw.	2.5	1.1			9	w.		0	0		Prof. T. Brioschi.
Stelvio	22.22	564.4			48.9	9.4	56	w.			2		8			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.29	566.1			53.2	11.8	56	n.			2		3			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.80	756.9	29.84	757.9	71.5	21.9	90	calm	0	0		0	0			0	0	clear	K. Ogawa.
Hakodate	29.81	757.2	29.63	757.7	64.2	17.9	97	calm	0	0			0			0	0	clear	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.61	752.3	29.78	756.4	77.0	25.0	77	nw.	3.8	1.7		0	8 s;ck			0	0	cloudy	M. Fojima.
Nagasaki, I. M. Obs'y	29.33	745.1	29.53	750.0	75.3	24.1	93	w.	16.8	7.5			10 n			0.710	18.0	raining	
Nemuro	30.00	762.0	30.07	763.8	65.0	18.3	100	sse.	3.0	1.3		0	0			0	0	clear	
Niigata	29.75	755.6	29.79	756.6	75.9	24.4	86	ne.	6.3	2.9		0	0			0	0	clear	M. Morita.
Nobiru	29.85	758.2	29.87	758.6	72.6	22.6	85	ssw.	4.1	1.8		1 ck	1 s			0	0	fair	H. Midzushima.
Osaka	29.73	755.1	29.74	755.4	75.0	23.9	84	ene.	2.4	1.1		1 ck	3ck;cs			0	0	fair	
Supporo					66.7	19.3	90	n.	1.8	0.8			0			0	0	clear	
Tokei Obs'y, Yeddo	29.80	756.9	29.87	758.8	75.3	24.1	83	se.	3.3	1.4			10 n					raining	The Staff.
Wakayama	29.71	754.6	29.76	755.9	79.1	26.2	70	calm	0	0		7	0			0.046	1.2	fair	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.98	761.5	30.17	766.3	73.5	23.1	60	e.	16.5	7.4		1 cs	2 k		ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	603.0	29.96	761.0	57.4	14.1	81	nne.	0	0		0	0			0	0	clear	Prof. Vicente Fernandez.
Leon, †	24.40	619.7	30.08	764.0	57.2	14.0	93	s.			1	2 c	0			0	0	clear	Prof. M. Leal.
Mazatlan	29.74	755.5	30.00	762.0	79.0	26.1	91	e.	1.6	0.8			10 n		se.	0	0	threatening	F. Quijano, C. E.
Mexico, Central Obs'y	23.16	588.3	30.19	766.7	55.0	12.8	84	nw.	0.2	0.1		0	8 kn			0.008	0.2	cloudy	The Staff.
Morelia	24.26	616.2	30.30	769.5	58.1	14.5	56	se.			3	1	1	s.	s.	inap.	inap.	clear	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Rabellon, Aguascalientes	24.00	609.7	29.99	761.7	59.5	15.3	91	w.			1	0	1 s			0	0	clear	M. V. de Leon, M. E.
Puebla, Catholic Institute	23.46?	594.9?	30.29	769.3	48.7	9.3	66	calm			0		10			0.973?	21.3?	covered	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D.
Zacatecas	22.54	572.4	30.05	763.3	61.0?	16.5?	71	sw.	5.6	2.5		0	0			0	0	fine	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.73	755.2	29.73	755.2	65.1	18.4		w.			5					0.098	2.5		
Groningen	29.51	749.6	29.57	751.0	62.1	16.7		w.			3					0.535	13.6		
Helder	29.59	751.6	29.59	751.6	61.2	16.2		w.			4					0.120	3.2		
Hellevoetsluis	29.70	754.3	29.70	754.3	63.0	17.2	66	w.			4					0.154	3.9		
Utrecht	29.63	752.6	29.68	753.8	64.6	18.1	78	w.			4		5			0.087	2.2	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.31	744.4	29.37	746.0	60.1	15.6	93	nnw.	7	3			10			0.236	6.0	raining	
Brono	29.49	749.0	29.53	750.0	74.5	23.6	51	se.	9	4			8			0	0		
Christiania	29.29	744.0	29.43	747.5	72.7	22.6	70	ese.	11	5			6			0.181	4.6		
Gjesvær	29.67	753.7	29.70	754.3	60.8	16.0		calm			0		0						
Lodingen	29.63	752.6	29.68	753.8	65.1	18.4	72	nne.			4		1			0	0		
PORTUGUESE.																			
Angra, Azores					72.9	22.7	58	sse.	11.2	5.0			3			0	0		Dr. J. A. Sampaio.
Campo Major	29.14	740.2	30.08	764.1	90.5	32.5	26	nne.	8.1	3.6			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.12	765.1	30.21	767.3	74.7	23.7	62	sw.	8.7	3.9			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.84	757.8	30.19	766.7	80.4	26.9	50	n.	20.2	11.7			1			0	0		The Staff.
Ponta Delgada, Azores	30.42	772.6	30.49	774.4	76.3	24.6	56	se.	4.3	1.9			3			0	0		
Saint Paul de Lonado	29.82	757.5	30.02	762.6	73.8	23.2	74	ne.			1		0			0	0		
Serra da Estrella	25.57	649.5	30.17	766.3	65.8	18.8	66	nnw.	13.6	6.1			2			0	0		
RUSSIAN.																			
Akmolinski	28.79	731.2	29.81	757.1	77.7	25.4	43	sw.	2	1		7 ck	0			0.016	0.4		Major K. Lasarew.
Archangel	29.89	759.3	29.91	759.8	72.1	22.3	67	ese.	2	1			10			0	0	light clouds	Capt. Sseliwerstow.
Astrakhan	29.88	759.0	29.80	756.9	87.3	30.7	51	s.	29	13		0	2 ks			0	0		Capt. Wisganow.
Barnaul	29.39	746.4	29.87	758.7	65.3	18.5	77	nw.	4	2			9			0.110	2.8		Meteorological Obs'y.
Dorpat	29.35	745.6	29.59	751.5	68.2	20.1	84	n.	2	1			10 ks			0	0		Observatory.
Ekaterinburg	29.19	741.3	30.15	765.7	55.6	13.1	64	ne.	4	2			10			0	0		Meteorological Obs'y.
Irkutsk																			
Kasan	29.65	753.2	29.91	759.6	82.9	28.3	34	s.	7	3			9			0	0		Observatory.
Kertch	29.83	757.6	29.85	758.1	77.5	25.3	62	se.	13	6		0	4 ks			0	0		Lagorio & Sastyrez.
Kieff	29.04	737.7	29.65	753.1	69.3	20.7	75	nw.	7	3		ck	7 ks						Observatory.
Lugan	29.57	751.1	29.77	759.1	79.9	26.6	38	wsw.	18	8			5			0	0		Meteorological Obs'y.
Moscow	29.21	741.8	29.66	753.3	67.1	19.5	88	ne.	4	2		0	8 ks						Meteorological Obs'y.
Nikolaiev	29.76	755.8	29.83	757.0	83.3	28.5	49	sw.	4	2		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor.																			Lieut. Iwanow.
Pekin, China	29.60	751.7	29.74	755.3	86.2	30.1	79	calm	0	0		2 cs	0			0	0		Physical Observatory.
St. Petersburg	29.58	751.3	29.60	751.7	77.7	25.4	53	ese.	16	7		0	8 k			0.091	2.3		Central Physical Obs'y.
Semipalatinsk	29.22	742.2	29.84	757.8	82.4	28.0	33	calm	0	0			2			0	0		Major Lasarew
Tashkend, Laboratory	28.28	718.3	29.75	755.7	83.5	28.6	43	calm	0	0			1			0	0		Teich, A. M.
Tiflis	28.45	722.7	29.76	756.0	95.5	35.3	31	se.	9	4		2 cs	0			0	0		Physical Observatory.
Vladivostock	29.71	754.5	29.77	756.2	71.2	21.8	90	calm	0	0		0	8 k						
Warsaw	29.39	746.5	29.86	756.9	68.5	20.3	68	nnw.	7	3			9 k;ks						Astronomical Obs'y.
Wilna	29.24	742.6	29.63	752.6	77.0	25.0	53	nw.	7	3			8			0.020	0.5		Berg, Assistant.
Yeniseisk	29.64	752.9	29.93	760.1	50.2	10.1	74	w.	7	3			5			0.071	1.8		M. O. Marks.
SCOTTISH.																			
Mounch Lt.			29.23	742.4	58	14.4	93	wnw.			6	5	5	wnw.		0.7	18.	showery	J. Youngclause.
North Unst			29.26	743.2				se.			3	4	5	s.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.96	760.9	30.06	763.5	78.8	26.0	62	s.	2.5	1.1		0	4			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.19	766.8	30.25	768.3	67.5	19.7	94	nw.	2.0	0.9			10			0.063	1.6	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.29	693.2	30.14	765.6	76.5	24.7	47	ne.	5.1	2.3		0	0			0	0	cloudy	Domingo Martin.
Madrid, Royal Obs'y	27.95	710.0	30.06	763.6	85.5	29.7	39	ne.	6.7	3.0		0	1			0	0	almost clear	The Staff.
Murcia, Met. Obs'y	29.96	761.0	30.09	764.2	89.8	32.1	58	se.	2.2	1.0		0	3			0	0	almost clear	Olayo Diaz, Director
Oviedo	29.41	747.1	30.29	769.3	65.3	18.5	91	ne.	3.3	1.4			10 n			0	0	covered	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.36	745.8	30.24	768.1	72.0	22.2	78	n.	6.3	2.8			10			0.063	1.6	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	30.02	762.6	30.09	764.3	78.2	25.7	87	ese.	3.4	1.5		6 c;cs	k	ne.		0.03	0.8	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.82	757.3	29.87	758.8	83.3	28.5	78	se.	1.1	0.5		0	2 ks		s.	0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.02	762.6	30.12	765.0	78.6	25.9	63	s.	6.7	3.0		0	0			0	0		Capt. C. Pujazon R. N.
San Juan de Porto Rico, W.I	29.87	758.6	29.96	760.9	79.5	26.4	91	calm	0	0		2 cs	3 k	n.	n.	0.138	3.5		Manuel Maese.
Tuguegarao, Philippine Id's	29.74	755.4	29.87	757.7	79.8	26.6	76	nw.	3.8	1.7		0	2 k		w.	0	0	fair	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.74	755.5	29.78	756.5	72.7	22.6	68	s.			2		2			0	0		
Umen	29.66	753.4	29.71	754.7	75.9	24.4	57	ese.			2		0			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Hernosand	29.63	752.7	29.69	754.0	70.2	21.2	78	e.	.....	.....	2	.....	2	.....	.....	0	0	.....	
Stockholm	29.41	746.9	29.58	751.4	74.5	23.6	54	sse.	.....	.....	4	.....	0	.....	.....	0	0	.....	
Wisby	29.57	751.1	29.63	752.6	68.7	20.4	80	w.	.....	.....	4	.....	5	.....	.....	0	0	.....	
Sub-series.																			
Upsala	29.48	748.8	29.57	751.0	77.4	25.2	41	se.	11.6	5.2	.....	.....	3	.....	se.	0	0	.....	S. G. Fineman.
SWISS.																			
Geneva	28.63	727.2	30.00	762.0	73.4	23.0	42	se.	.....	.....	4	.....	5	.....	.....	0	0	cloudy	The Observatory
TURKISH.																			
Constantinople	.....	.....	29.93	760.3	80.6	27.0	43	n.	10	4.5	.....	.....	0	.....	.....	0	0	.....	The Observatory.
Valona	.....	.....	30.08	763.9	81.0	27.2	.....	sw.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria	.....	.....	29.87	758.7	84.7	29.3	55	w.	.....	.....	1	0	3 s	.....	se.	0	0	.....	Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.28	769.1	30.36	771.1	62	16.7	68	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. O. Barnes.
Alpena, Michigan	29.56	750.8	30.20	767.1	66	18.9	93	calm	0	0	.....	10 cs	0	.....	.....	0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.10	637.5	29.82	757.4	64	17.8	81	e.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.17	690.1	29.92	760.0	56	13.3	53	sw.	12	5.4	.....	0	3 s	.....	sw.	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.11	739.4	30.26	768.6	69.5	20.8	92	e.	9	4.0	.....	4 k	6 s	e.	e.	0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.29	769.4	30.30	769.6	67	19.4	78	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	Jas. M. Watson.
Augusta, Georgia	30.13	765.3	30.32	770.1	72	22.2	82	e.	1	0.4	.....	6 c	0	nw.	.....	0.05	1.3	fair	John Healy.
Baltimore, Maryland	30.30	769.0	30.36	771.1	65	18.3	73	se.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.28	769.1	30.30	769.6	68.0	20.0	72	nw.	13	5.8	.....	0	0	.....	.....	0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.26	717.8	29.80	756.9	70	21.1	81	calm	0	0	.....	4 k	4 s	sw.	.....	inap.	inap.	cloudy	A. Pritchard.
Benton, Fort, Montana	27.21	691.1	30.00	762.0	57	13.9	60	se.	8	3.5	.....	6 ck	0	.....	.....	0	0	fair	S. Wheaton.
Behring Island, Behring Sea	29.94	760.5	29.96	761.0	54.2	12.3	.....	calm	0	0	.....	.....	fg.	.....	.....	0.04	1.0	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.09	713.5	29.83	757.7	64	17.8	84	ne.	8	3.6	.....	.....	10 s	.....	.....	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.27	768.8	30.30	769.6	63	17.2	84	ne.	9	4.0	.....	4 cs	0	.....	.....	0	0	fair	J. T. Elker.
Boise City, Idaho	27.24	691.9	29.99	761.7	55	12.8	64	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	B. E. Light.
Boston, Massachusetts	30.17	766.3	30.32	770.1	59.0	15.0	69	nw.	4	1.8	.....	3 c	hz.	.....	.....	0	0	clear	O. B. Cole.
Brownsville, Texas	30.01	762.2	30.05	763.3	71.8	22.1	97	calm	0	0	.....	0	4 s	.....	.....	0.45	11.4	fair	M. McCarty.
Buffalo, New York	29.55	750.6	30.28	769.1	58	14.4	75	ne.	4	1.8	.....	8 cs	sk.	n.	.....	0	0	cloudy	Clarence Weaver.
Buford, Fort, Dakota	27.93	709.4	29.87	758.7	56	13.3	74	e	2	0.9	.....	0	hz.	.....	calm	0	0	clear	A. H. Bell.
Burlington, Vermont	30.04	763.0	30.33	770.4	58.0	14.4	74	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.86	758.4	30.25	768.3	69.7	20.9	77	e.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. H. Ray.
Campo, California	27.43	696.7	29.93	760.2	51.4	10.8	74	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. H. Clendenon
Cape Henry, Virginia	30.31	769.9	30.33	770.4	72	22.2	66	ne.	4	1.8	.....	1 c	0	.....	.....	0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.29	769.4	30.32	770.1	69.8	21.0	84	w.	9	4.0	.....	0	0	.....	.....	0	0	clear	W. E. Smith.
Cape Mendocino	29.44	747.8	.....	.....	55	12.8	93	n.	24	10.7	.....	.....	fg	.....	.....	0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	30.16	766.1	30.18	766.6	76	24.4	97	ne.	8	3.6	.....	3 ck	2 k	.....	.....	1.28	32.5	fair	F. W. Mixer.
Champaign, Illinois	29.46	748.3	30.25	768.3	64.8	18.2	81	se.	6	2.7	.....	0	hz.	.....	.....	0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.21	767.3	30.26	768.6	74	23.3	76	ne.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.46	748.3	30.29	769.4	71.0	21.7	76	se.	3	1.3	.....	0	sk.	.....	.....	0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.47	748.5	30.28	769.1	71.0	21.7	90	e.	4	1.8	.....	0	9 ks	.....	se.	0.03	0.8	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.15	613.4	29.85	758.2	60.2	15.7	67	n.	1	0.4	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	E. McGovern.
Chicago, Illinois	29.54	750.3	30.23	767.8	71.8	22.1	77	sw.	8	3.6	.....	4 c	hz.	.....	.....	0	0	fair	J. Mitchell.
Chincoteague, Virginia	30.30	769.6	30.32	770.1	68.5	20.3	74	nw.	1	0.4	.....	0	hz.	.....	.....	0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.66	753.4	30.30	769.6	66.8	19.3	87	se.	2	0.9	.....	0	fg.	.....	.....	0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.55	750.6	30.27	768.8	69	20.6	76	s.	6	2.7	.....	2 k	0	n.	.....	0	0	clear	J. B. Newlin.
Coleman City, Texas	28.32	719.3	30.06	763.5	64	17.8	90	calm	0	0	.....	6 cs	0	.....	.....	0	0	fair	L. Dorman.
Columbus, Ohio	29.45	748.0	30.28	769.1	63	17.2	84	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	D. Cuthbertson.
Concho, Texas	28.20	716.3	30.06	763.5	66	18.9	90	calm	0	0	.....	0	0	.....	.....	0	0	clear	W. W. McConihe.
Custer, Fort, Montana	26.79	680.5	29.85	758.2	61	16.1	58	s.	4	1.8	.....	0	4 s	.....	calm	0	0	fair	W. B. Lamar.
Davenport, Iowa	29.57	751.1	30.20	767.1	69	20.6	78	s.	7	3.1	.....	2 cs	hz.	calm	calm	0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.25	641.3	29.90	759.4	63	17.2	84	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Williams.
Dayton, Washington T'y	28.33	719.6	30.04	763.0	55	12.8	74	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. Clifford.
Deadwood, Dakota	25.37	644.4	29.80	756.9	64	17.8	65	n.	3	1.3	.....	10 cs; k	0	w.	.....	0	0	cloudy	G. W. Scott.
Decatur, Texas	.....	.....	.....	.....	71	21.7	71	se.	7	3.1	.....	0	2 s	.....	.....	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.31	769.9	30.33	770.4	65	18.3	90	w.	7	3.1	.....	0	1 s	.....	.....	0	0	clear	T. S. Townsend.
Denison, Texas	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. McGlone.
Denver, Colorado	24.79	629.7	29.81	757.2	64.0	17.8	56	sw.	2	0.9	.....	4 ck	0	sw.	.....	0.01	0.3	fair	F. M. Neal.
Des Moines, Iowa	29.28	743.7	30.16	766.1	65	18.3	78	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.56	750.8	30.25	768.3	68.5	20.3	90	calm	0	0	.....	2 cs	2 s; sk	.....	.....	0	0	fair	C. F. R. Wappenhans.
Dodge City, Kansas	27.51	698.7	29.99	761.7	64	17.8	73	s.	12	5.4	.....	0	0	.....	.....	0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.50	749.3	30.19	766.8	68.3	20.2	78	calm	0	0	.....	2 c	hz.	sw.	.....	0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.23	742.4	29.95	760.7	67	19.4	93	sw.	14	6.3	.....	.....	10 s	.....	w.	0.89	22.6	cloudy	N. B. Conger.
Eagle Pass, Texas	29.33	745.0	30.12	765.0	72.0	22.2	90	calm	0	0	.....	0	0	.....	.....	0.04	1.0	clear	F. Belford.
Eagle Rock, Idaho	25.37	644.4	29.92	760.0	48	8.9	68	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. M. Clifford.
Eastport, Maine	30.21	767.3	30.28	769.1	53.0	11.7	72	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.35	694.7	29.99	761.7	61	16.1	84	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. J. Gundall.
El Paso, Texas	26.34	669.0	29.94	760.5	65	18.3	93	nw.	1	0.4	.....	5 ck	0	nw.	.....	0.39	9.9	fair	J. F. Marshall.
Erie, Pennsylvania	29.55	750.6	30.26	768.6	66	18.9	73	s.	3	1.3	.....	3 k	hz.	.....	.....	0	0	clear	Peter Wood.
Escanaba, Michigan	29.50	749.3	30.14	765.5	64.5	18.1	92	s.	4	1.8	.....	.....	10 s	.....	.....	0.18	4.6	cloudy	George Heathcote.
Fredericksburg, Texas	28.39	721.1	30.10	764.5	71	21.7	84	calm	0	0	.....	0	8 s	.....	.....	0	0	cloudy	Frank Halwegler.
Galveston, Texas	30.03	762.7	30.08	764.0	80	26.7	74	e.	8	3.6	.....	0	8 ks	.....	e.	inap.	inap.	cloudy	E. O'C. Macherney.
Grand Haven, Michigan	29.56	750.8	30.21	767.3	70.5	21.4	84	sw.	7	3.1	.....	0	3 s	.....	sw.	0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.30	642.6	29.87	758.7	62.9	17.2	93	s.	4	1.8	.....	.....	10 n	.....	.....	1.10	27.9	light rain	Robert C. Lord.
Hatteras, North Carolina	30.27	768.8	30.29	769.4	71	21.7	62	ne.	13	5.8	.....	0	hz.	.....	.....	0	0	clear	R. M. Crawford.
Helena, Montana	25.86	656.8	29.95	760.7	61	16.1	48	w.	5	2.2	.....	0	3 s	.....	.....	0	0	clear	N. C. Smith.
Henrietta, Texas	29.18	741.2	30.18	766.6	69.0	20.6	78	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	J. W. Byram.
Huron, Dakota	28.50	723.9	29.84	757.9	71.2	21.8	68	se.	15	6.7	.....	7 k	0	nw.	.....	0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.50	749.3	30.27	768.8	68.5	20.3	83	calm	0	0	.....	0	hz.	.....	.....	0	0	dense haze	O. Schutze
Indianola, Texas	30.06	763.5	30.08	764.0	73.1	22.8	82	n.	16	7.2	.....	0	2 k; hz	.....	n.	0	0	clear	I. A. Reed.
Jacksboro, Texas	28.98	736.1	30.10	764.5	64	17.8	90	calm	0	0	.....	5 ck	3 s	ne.	.....	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.14	765.5	30.18	766.6	75	23.9	90	calm	0	0	.....	.....	10 s	.....	.....	0.20	5.1	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.40	695.9	29.83	757.7	62	16.7	90	calm	0	0	.....	1 ck	8 s	sw.	sw.	0	0	cloudy	A. Schneider.
Keokuk, Iowa	29.55	750.6	30.18	766.6	69.5	20.8	74	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.06	763.5	30.08	764.0	83.0	28.3	74	e.	2	0.9	.....	6 cs	4 ks	.....	e.	0	0	cloudy	R. H. Paxton.
Kittyhawk, North Carolina	30.31	769.9	30.33	770.4	73	22.8	59	ne.	18	8.0	.....	hz.	1 k	.....	ne.	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.28	743.7	30.29	769.4	68	20.0	90	n.	1	0.4	.....	0	fg.	.....	.....	0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.36	745.7	30.11	764.8	70	21.1	76	se.	9	4.0	.....	.....	10 s	.....	.....	0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	N. D. Lane.
Leavenworth, Kansas	29.30	744.2	30.16	766.1	66	18.9	73	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. W. Browne.
Lewiston, Idaho	29.22	742.2	30.02	762.5	61.5	16.4	48	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. Bell.
Little Rock, Arkansas	29.87	758.7	30.18	766.6	74	23.3	90	e.	1	0.4	.....	.....	10 s	.....	e.	0	0	cloudy	W. U. Simons.
Los Angeles, California	29.58	751.3	29.97	761.2	67	19.4	73	calm	0	0	.....	0	0	.....	.....	0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.70	754.4	30.25	768.3	66	18.9	84	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.63	752.6	30.30	769.6	68.5	20.3	75	ne.	1	0.4	.....	0	4 ks	.....	ne.	0	0	fair	Lewis Duane.
Mackinaw City, Michigan	29.57	751.1	30.21	767.3	65.0	18.3	93	e.	9	4.0	.....	10 k	0	s.	.....	0	0	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.28	769.1	30.29	769.4	69	20.0	76	n.	11	4.9	.....	hz.	1 s	.....	.....	0	0	clear	F. P. Chaffee.
Madison, Wisconsin	29.22	742.2	30.20	767.1	68	20.0	84	sw.	4	1.8	.....	6 c	hz.	w.	calm	0	0	fair	C. A. Shaw.
Maginnis, Fort, Montana	25.61	650.5	.....	.....	65	18.3	26	ne.	6	2.7	.....	4 cs	0	.....	.....	0	0	fair	H. W. Dodge.
McKavett, Fort, Texas	27.90	708.6	30.11	764.8	68	20.0	76	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.42	747.3	30.13	765.3	62	16.7	93	ne.	1	0.4	.....	.....	10 s	.....	sw.	0.06	1.5	cloudy	J. Gilligan.
Memphis, Tennessee	29.85	758.2	30.18	766.6	75	23.9	85	e.	4	1.8	.....	3 c	0	.....	.....	0.07	1.8	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.48	748.8	30.22	767.6	68	20.0	84	sw.	8	3.6	.....	3 c	sk.	.....	.....	0	0	clear	W. Line.

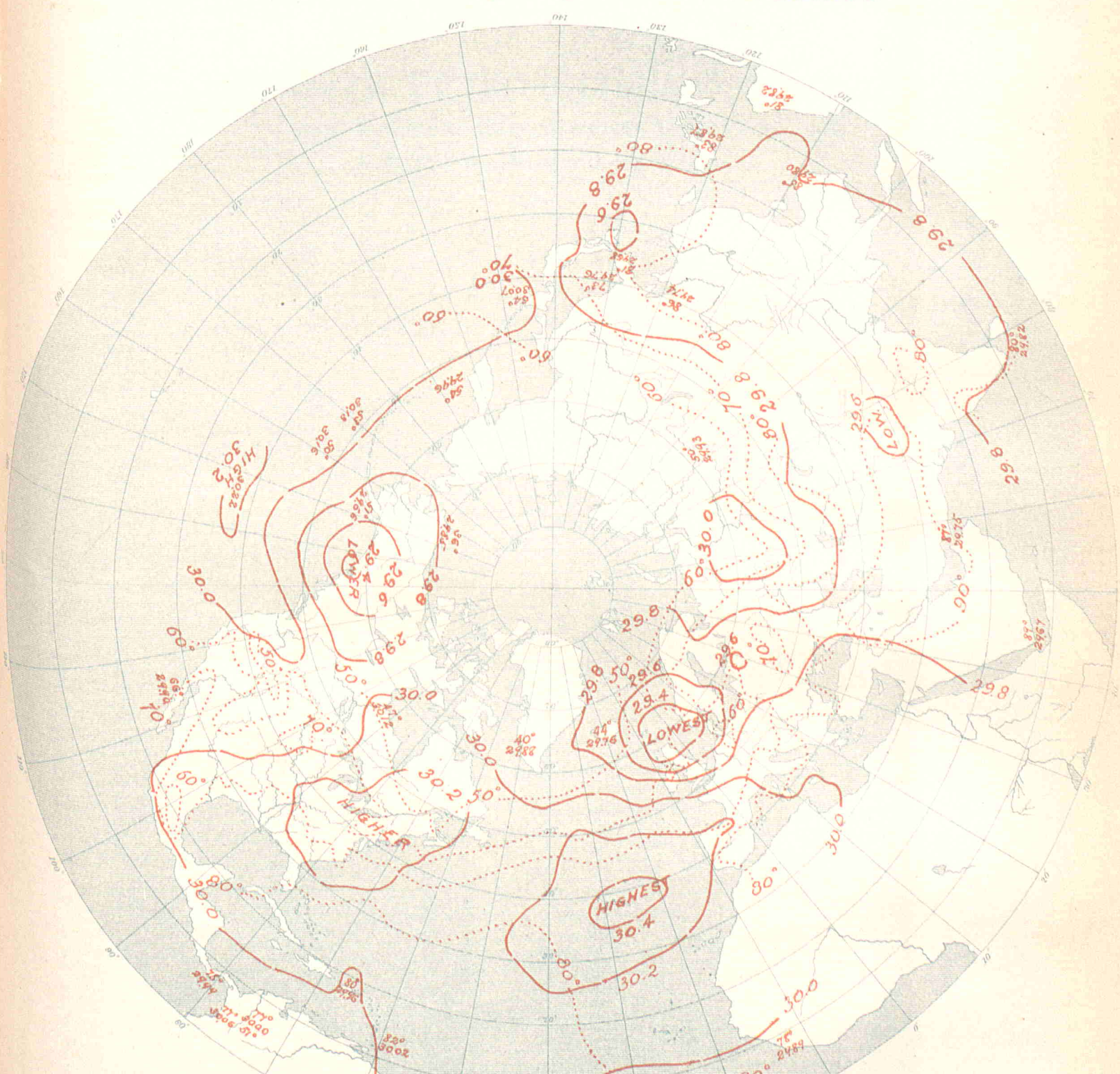
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.81	681.0	30.03	762.7	50	10.0	59	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.10	764.5	30.14	765.5	75	23.9	94	ne.	4	1.8	.....	1 cs	7 s	.....	se.	0.52	13.2	cloudy	C. A. Read.
Montgomery, Alabama	29.98	761.5	30.21	767.3	74.7	23.7	86	se.	3	1.3	.....	.....	10 s	.....	se.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.91	734.3	29.88	758.9	67	19.4	78	se.	20	8.9	.....	5 ck	0	se.	.....	1.14	29.0	fair	H. Bessant.
Morgantown, W. Virginia	29.32	744.7	30.32	770.1	56.5	13.6	92	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.10	612.1	30.18	766.6	35.0	1.7	72	ne.	23	10.3	.....	0	0	.....	.....	0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.68	753.9	30.24	768.1	67.5	19.7	84	ne.	3	1.3	.....	6 ck	0	se.	.....	0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.22	767.6	30.33	770.4	59	15.0	65	ne.	7	3.1	.....	0	sk.	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.29	769.4	30.34	770.6	61	16.1	65	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	30.05	763.3	30.10	764.5	76.2	24.6	85	ne.	3	1.3	.....	0	1 k	.....	n.	0.19	4.8	clear	L. Dunne.
Newport, Rhode Island	30.26	768.6	30.31	769.9	61.3	16.3	77	n.	4	1.8	.....	4 c	0	.....	.....	0	0	fair	W. McGillivray.
New York, New York	30.16	766.1	30.33	770.4	68	20.0	66	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.27	768.8	30.30	769.6	73	22.8	71	e.	1	0.4	.....	2 c	hz.	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.06	687.3	29.86	758.4	72.6	22.6	62	s.	18	8.0	.....	0	1 s	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.04	763.0	30.08	764.0	56.5	13.6	90	s.	2	0.9	.....	3 cs	3 s	sw.	.....	0	0	fair	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.84	757.9	29.85	758.2	36.0	2.2	95	nne.	16	7.2	.....	.....	10 s	.....	.....	0	0	cloudy	P. H. Ray.
Omaha, Nebraska	28.97	735.8	30.11	764.8	68.6	20.3	69	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Oswego, New York	29.98	761.5	30.30	769.6	59.0	15.0	84	s.	4	1.8	.....	2 c	0	.....	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.60	751.8	30.14	765.5	66.0	18.9	78	ne.	9	4.0	.....	3 ck	0	nw.	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.10	764.5	30.12	765.0	75.0	23.9	97	ne.	9	4.0	.....	.....	10 n	.....	e.	2.28	57.9	light rain	M. McGauran.
Philadelphia, Pa.	30.23	767.8	30.33	770.4	67	19.4	68	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.04	458.2	29.83	757.7	34	1.1	85	sw.	17	7.6	.....	0	5 s	.....	.....	0	0	fair	L. M. Dey.
Pioche, Nevada	24.14	613.1	29.84	757.9	61	16.1	72	s.	2	0.9	.....	1 k	0	.....	.....	0.09	2.3	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.50	749.3	30.30	769.6	59.8	15.4	87	ne.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. B. Turton.
Poplar River, Montana	27.80	706.1	.....	.....	.....	.....	.....	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.09	764.3	30.10	764.5	77.6	25.3	89	se.	7	3.1	.....	0	1 k	.....	se.	0.93	23.6	clear	M. Hermann.
Port Huron, Michigan	29.56	750.8	30.22	767.6	66.2	19.0	91	calm	0	0	.....	10 cs	sk.	.....	.....	0	0	cloudy	W. O. Bailey.
Portland, Maine	30.25	768.3	30.30	769.6	59.0	15.0	70	nw.	7	3.1	.....	2 c	0	.....	.....	Inap.	Inap.	clear	W. W. Eichelberger.
Portland, Oregon	30.01	762.2	30.08	764.0	56.0	13.3	86	calm	0	0	.....	0	hz.	.....	.....	0	0	dense haze	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	73	22.8	90	ne.	15	6.7	.....	3 k	2 ks	ne.	.....	0	0	fair	F. S. Coburn.
Prescott, Arizona	24.86	631.4	29.84	757.9	61	16.1	84	calm	0	0	.....	.....	10 s	.....	s.	0.12	3.0	cloudy	J. McN. Wright.
Provincetown, Mass.	30.26	768.6	30.30	769.6	63	17.2	78	n.	6	2.7	.....	2 cs	2 s	.....	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.11	764.8	30.12	765.0	78.5	25.8	89	ne.	8	3.6	.....	2 c	1 k	calm	calm	0.07	1.8	clear	W. J. Evans.
Red Bluff, California	.....	.....	.....	.....	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.89	759.2	30.13	765.3	70	21.1	90	se.	3	1.3	.....	0	0	.....	.....	1.12	28.4	clear	H. S. Miles.
Rochester, New York	29.62	752.3	30.27	768.8	57	13.9	74	sw.	4	1.8	.....	5 c	hz.	n.	.....	0	0	fair	E. W. McGann.
Roseburg, Oregon	29.56	750.8	30.10	764.5	52	11.1	83	ne.	1	0.4	.....	0	sk.	.....	.....	c	0	dense smoke	J. J. Nanry.
Sacramento, California	29.81	757.2	29.88	758.9	62.4	16.9	60	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.66	753.4	30.24	768.1	67.0	19.4	93	se.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. H. Webber.
St. Paul, Minnesota	29.23	742.4	30.07	763.8	68.0	20.0	78	e.	4	1.8	.....	.....	10 s	.....	sw.	0.15	3.8	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.05	737.9	29.90	759.4	61	16.1	93	e.	5	2.2	.....	.....	10 s	.....	.....	0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.71	653.0	29.90	759.4	62	16.7	54	se.	4	1.8	.....	0	0	.....	.....	0.16	4.1	clear	J. Craig.
San Antonio, Texas	29.41	747.0	30.10	764.5	69.0	20.6	90	ne.	1	0.4	.....	3 ck	0	.....	.....	0	0	clear	T. J. Kenan.
San Diego, California	29.88	758.9	29.95	760.7	65.3	18.5	80	se.	5	2.2	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.59	751.6	30.25	768.3	69.3	20.7	77	sw.	7	3.1	.....	5 k	0	w.	.....	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.30	769.6	30.33	770.4	66.0	18.9	63	ne.	10	4.5	.....	0	hz.	.....	calm	0	0	clear	B. A. Blundon.
San Francisco, California	29.86	758.4	29.93	760.2	52.5	11.4	90	calm	0	0	.....	0	fg.	.....	sw.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.40	594.3	29.89	759.2	59	15.0	87	s.	3	1.3	.....	.....	10 s	.....	s.	0.66	16.8	cloudy	H. U. Jones.
Savannah, Georgia	30.15	765.8	30.24	768.1	75	23.9	76	ne.	6	2.7	.....	9 ck	0	n.	.....	0	0	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.43	671.3	29.96	761.0	51	10.6	66	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.89	759.2	30.12	765.0	69	20.6	90	n.	2	0.9	.....	3 ck	fg.	n.	.....	0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.92	734.6	30.10	764.5	61.5	16.4	82	n.	4	1.8	.....	8 ck	0	s.	.....	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.41	620.0	29.87	758.7	57	13.9	90	calm	0	0	.....	.....	10 s	.....	calm	0.94	23.9	cloudy	J. B. Wallace.
Sitka, Alaska	29.27	743.4	29.33	745.0	55	12.8	80	sw.	4	1.8	.....	.....	10 s	.....	sw.	0.31	7.9	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.69	754.1	30.15	765.8	71.3	21.8	84	calm	0	0	.....	.....	10 s	.....	s.	0	0	cloudy	J. B. Campbell.
Smithville, North Carolina	30.24	768.1	30.28	769.1	69	20.6	70	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.03	711.9	30.03	762.7	59	15.0	67	sw.	3	1.3	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.59	751.6	30.25	768.3	67.8	19.9	79	se.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	30.22	767.6	30.34	770.6	59.8	15.4	70	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo.	28.78	731.0	30.17	766.3	65	18.3	75	se.	5	2.2	.....	7 c;cs	0	.....	.....	0	0	fair	J. B. Marbury.
Starkville, Miss.	29.72	754.9	30.19	766.8	75	23.9	85	se.	7	3.1	.....	0	8 ks	.....	se.	0.33	8.4	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.06	712.7	29.84	757.9	62	16.7	93	e.	1	0.4	.....	5 ck	5 ks	w.	.....	0	0	cloudy	W. Burrows.
Stockton, Fort, Texas	27.10	688.3	30.04	763.0	64.0	17.8	93	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thomas Camp	27.26	692.4	29.88	758.9	70.5	21.4	95	calm	.....	.....	0	.....	10 ks	.....	se.	0.16	4.1	cloudy	
Thatcher's Island, Mass.	30.26	768.6	30.31	769.9	57.0	13.9	86	nw.	10	4.5	.....	2 c	0	w.	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.55	750.6	30.22	767.6	72	22.2	84	s.	4	1.8	.....	hz	sk.	.....	.....	0	0	dense smoke	A. Buell.
Tucson, Arizona	27.58	700.5	29.92	760.0	70	21.1	97	sw.	3	1.3	.....	.....	10 n	.....	.....	0.34	8.6	light rain	J. L. Whiteside.
Umatilla, Oregon	29.69	754.1	30.05	763.3	63	17.2	68	w.	3	1.3	.....	1 cs	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.14	740.1	30.08	764.0	72	22.2	84	calm	0	0	.....	10 ck	0	ne.	.....	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	73.3	22.9	68	w.	.....	.....	1	.....	10 s	.....	w.	0	0	cloudy	D. Brooks.
Vicksburg, Mississippi	29.90	759.4	30.14	765.5	73	22.8	90	e.	6	2.7	.....	.....	9 s	.....	e.	0.02	0.5	cloudy	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		W. L. Seward.
Washakie, Fort, Wyoming	24.56	623.8	29.90	759.4	49.4	9.7	65	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.24	768.1	30.34	770.0	61.9	16.6	86	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	F. M. M. Beall.
West Las Animas, Colorado	26.05	661.7	29.80	756.9	68.4	20.2	61	sw.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.74	755.4	30.32	770.1	54	12.2	80	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.24	768.1	30.29	769.4	70	21.1	76	ne.	5	2.2	.....	2 c	0	.....	.....	0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.68	652.3	29.91	759.7	47	8.3	32	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.78	731.0	30.05	763.3	71	21.7	71	sw.	4	1.8	.....	3 cs	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.69	754.1	29.83	757.7	79.6	26.4	86	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.10	561.3	.....	.....	51.0	10.6	76	e.	1	0.4	.....	2 k	4 ks; s	.....	w.	0	0	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I.	30.01	762.2	30.02	762.5	82	27.8	78	se.	.....	.....	.....	0	5 ks	.....	.....	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.03	762.7	30.06	763.5	77	25.0	86	calm	0	0	.....	.....	10 ks	.....	calm	0.40	10.2	cloudy	J. I. Plume.
Havana, Cuba†	30.04	763.0	30.10	764.5	79	26.1	88	se.	2.4	1.1	.....	7 cs	0	n.	.....	0.02	0.5	fair	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	30.01	762.2	30.02	762.5	81.3	27.4	82	calm	0	0	.....	3 cs	0	ne.	.....	0.01	0.3	fair	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	74	23.3	.....	calm	.....	.....	0	3 cs	0	se.	.....	0	0	.....	S. M. Pike.
Navassa, W. I.	29.88	758.9	29.96	761.0	82	27.8	83	ne.	3	1.3	.....	3 cs	2 ks	ne.	e.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	80	26.7	87	se.	.....	.....	2	.....	8 ps	se.	se.	0.190	4.8	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.44	747.8	30.00	762.0	77	25.0	89	e.	.....	.....	1	8 c	1 s	ne.	calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	.....	.....	95	ne.	.....	.....	2	0	3 ks	.....	ne.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.60	751.8	29.66	753.4	51	10.6	93	nw.	.....	.....	1	7 cs	0	.....	.....	0.06	1.5	fair	W. J. Fisher.
St. Thomas, W. I.	29.87	758.7	30.00	762.0	80	26.7	88	sw.	.....	.....	.....	2 k	6 k	.....	sw.	0.24	6.1	fair	Aug. Walloe.
York Factory, B. A.	30.06	763.5	30.12	765.0	47.0	8.3	92	n.	10	4.5	.....	1 c	0	n.	.....	0	0	fair	Fortesque & Wood.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, N. 37° 06′, W. 31° 50′	30.45	773.4	77.5	25.3	71	ese.			2		4							d. clouds.
H. M. S. Alexandra, Port Said, Egypt	29.89	759.2	81	27.2	76	nw.			2		0							blue sky.
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.29	769.4	70.5	21.4	87	nne.			1		3	sw.						misty.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	30.00	762.0	77	25.0		n.			4		2	n.						d. clouds.
H. M. S. Arab, N. 25° 36′, E. 55° 34′	29.58	751.3	92	33.3	60	ne.			3		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.13	765.3	59.5	15.3		se.			3		0							blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	30.01	762.2	55	12.8	55	calm			0		4							d. clouds.
H. M. S. Diamond, S. 13° 30′, E. 161° 32′	29.88	758.9	77	25.0	86	se.			2–3		3					2	se.	d. clouds.
H. M. S. Dido, N. 17° 55′, W. 77° 00′	30.05	763.3	82	27.8		calm			0		0							blue sky.
H. M. Dock Yard, Bermuda, W. I.	30.02	762.5	77.5	25.3	67	nne.			1–2		6	nne.						d. clouds.
H. M. S. Eclipse, N. 30° 10′, E. 32° 30′	29.67	753.6	87.5	30.8		nnw.			2		3							d. clouds.
H. M. S. Fantome, N. 16° 36′ W. 67° 34′	29.98	761.5	85	29.4		ese.			1		6	ese.				sm'h		d. clouds.
H. M. S. Flying Fish, N. 36° 38′, E. 125° 31′	29.76	755.9	78.5	25.8	95	nw.			2		3					2	nw.	d. clouds.
H. M. S. Gannet, S. 3° 30′, W. 81° 30′	30.02	762.5	63.5	17.5	89	ssw.			4–5		6	ne.						d. clouds.
H. M. S. Griffon, N. 46° 50′, W. 55° 23′	30.18	766.6	55.5	13.1	74	n.			3		10							squally.
H. M. S. Iron Duke, N. 40° 50′, E. 132° 06′	29.76	755.9	73	22.8	95	sse.			2		0					1	sse.	blue sky.
H. M. S. Lark, S. 10° 26′, E. 161° 50′	29.89	759.2	79.3	26.3	93	se.			2		4					2	se.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.02	762.5	58	14.4		ne.			1							1	n.	d. clouds.
H. M. S. Magpie, N. 35° 06′, E. 129° 03′	29.58	751.3	77.5	25.3	75	nne.			6		9					4	var.	misty.
H. M. S. Minotaur, Alexandria, Egypt	29.90	759.4	79.5	26.4	74	nnw.			2		2							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	30.14	765.5	58	14.4	84	nnw.			2		5	ne.						d. clouds.
H. M. S. Orontes, N. 32° 40′, E. 25° 30′	29.94	760.5	78.5	25.8	95	wnw.			2		3	wnw.				2	wnw.	d. clouds.
H. M. S. Pegasus, N. 5° 16′, E. 115° 15′	29.82	757.4	81	27.2	91	calm			0		10							d clouds.
H. M. S. Sappho, N. 20° 45′, W. 156° 00′	30.02	762.5	76	24.4	95	ene.			3–4		5					3	ene.	squally.
H. M. S. Swiftsure, Coquimbo, Chili	30.02	762.5	55	12.8	87	ne.			2		8	n.						d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.30	769.6	53	11.7	93	e.			3		10							overcast.
H. M. S. Tenedos, N. 48° 23′ W. 53° 22′	30.25	768.3	56.5	13.6	77	ne.			1		9							d. clouds.
H. M. S. Triumph, S. 29° 13′ W. 46° 34′	30.34	770.6	69	20.6	90	ne.			2		3	nne.				3	nne.	d. clouds.
H. M. S. Woodlark, Jask, Persia	29.65	753.1	86.5	30.3	72	sse.			4–5		0					2	s.	misty.
Portuguese Naval.																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.09	764.2	82.4	28.0	85				2		2					1	se.	d. clouds.
Tamega, Macao, China	29.73	755.1	78.8	26.0	88	sw.			4		10		sw.	14 h'r	14 h'r			drizzling.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.01	762.2	79	26.1	86	ene.	3	1.3			10		ene.	2.65	67.3			cloudy.
Navy Yard, Portsmouth, N. H.	30.32	770.1	57	13.0	81	calm	0	0			3			0	0			hazy.
Naval Hospital, Yokohama, Japan*	29.78	756.4	75.5	24.2	86	calm			0		10		sw.	0	0			cloudy.
Adams, Mare Island, Cal			59	15.0	82	sw.			1		0			0	0	sm'h		clear.
Alaska, S. 0° 47′, W. 129° 42′	29.91	759.7	75	23.9	90	se.			1		5		se.	0	0	sm'h		fair.
Alliance, Portsmouth, N. H.	30.31	769.9	55	12.8	87	n.			1		5?			0	0	sm'h		clear.?
Ashuelot, Yokohama, Japan*	29.78	756.4	78	25.6	91	se.			1		5		calm					fair.
Brooklyn, Rio de Janeiro, Brazil	30.34	770.6	69	20.6	100	nne.	5	2.2			8		n;e.	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.30	769.6	69	20.6	70	nw.	2	0.9			2			0	0			hazy.
Constellation, Chesapeake Bay*	30.29	769.4	73	22.8	81	nne.			1		2		nne.					fair.
Enterprise, Portsmouth, N. H.	30.29	769.4	57	13.9	81	nw.			0–1		5		calm					fair.
Essex, Coquimbo, Chili	30.08	764.0	57	13.9	94	calm			0		10					sm'h	ne.	overcast.
Franklin, Norfolk, Va.	30.35	770.9	69	20.6	80	nw.	6	2.7			0			0	0			clear.
Galena, N. 8° 25′, W. 25° 30′	29.95	760.7	79	26.1	95	sw.			6		8		sw.			r'gh	ssw.	cloudy.
Hartford, N. 41° 02′, W. 28° 31′*	30.43	772.9	75	23.9	90	s.			1		2		ssw.	0	0	sm'h		clear.
Independence, Mare Island, Cal	29.95	760.7	57	13.9	?	sw.			2		0			0	0			clear.
Iroquois, Acupulco, Mexico	29.93	760.2	78	25.6	82	calm			0		10							cloudy.
Kearsarge, N. 41° 50′ W. 69° 19′	30.26	768.6	66	18.9	84	n.			4		5		n.			sm'h		fair.
Lackawanna, Callao, Peru*	30.06	763.5	60	15.6	88	se.			2		10		se.					cloudy.
Lancaster, Villafranca, France*	29.90	759.4	81	27.2	91	s.			1		2		calm	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	30.14	765.5	55	12.8	100	ne.			3		10		calm			sm'h		cloudy.
Michigan, Chicago, Illinois	30.16	766.1	71	21.7	80	sw.			1		0							clear.
Minnesota, New York, N. Y.	30.32	770.1	70	21.1	95	ene.	2	0.9			0							
Monocacy, N. 37° 27′, E. 126° 33′	29.68	753.9	81	27.2	91	wnw.			2		0							clear.
New Hampshire, Newport, R. I.	30.29	769.4	63	17.2	78	n.			2		2					sm'h		clear.
Nipsic, Villafranca, France*	29.88	758.9	77	25.0	73	s.			1		2					sm'h		clear.
Onward, Callao, Peru†	30.16	766.1	58	14.4	100	sse.			3		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.70	754.4	77	25.0	91	ne.			4		5		s.					fair.
Passaic, Washington, D. C.			62	16.7	100	calm			0		0							clear.
Pensacola, Payta, Peru*	29.96	761.0	62	16.7	88	ese.	2	0.9			8		se.	0	0	sm'h		cloudy.
Portsmouth, Gibraltar, Mediterranean *	30.08	764.0	72	22.2	80	nnw.			2		2		e.			sm'h		clear.
Powhatan, Norfolk, Va.	30.29	769.4	70	21.1	75	calm			0		2							fair.
Quinnebaug, Alexandria, Egypt*	29.87	758.7	79	26.1	86	nnw.			3		2		nnw.			sm'h		fair.
Ranger, Mare Island, Cal	29.95	760.7	62	16.7	77	wnw.			1		2			0	0			fair.
Richmond, Yokohama, Japan*	29.79	756.7	78	25.6	86	se.			1		8		se.	0	0			cloudy.
Saratoga, entering Gibraltar, Mediterranean	30.07	763.8	77	25.0	77	ne.			2		5		ne.	0	0	sm'h		fair.
St. Louis, League Island, Pa.	30.55	776.0	62	16.7	88	wnw.			1		0			0	0			clear.
Swatara, N. 14° 10′, E. 109° 24′*	29.60	751.8	85	29.4	83	s.			3		5		s.			sm'h		fair.
Tennessee, Portsmouth, N. H.†	30.35	770.9	67	19.4	69	n.	6	2.7			2			0	0			fair.
Vandalia, Portsmouth, N. H*	30.27	768.8	57	13.9	81	nw.			1		2		calm					fair.
Wabash, Boston, Mass.	30.31	769.9	58	14.4	76	calm	0	0			2		sw.					clear.
Wachusetts, Fort Wrangle, Alaska †	29.73	755.1	53	11.7	100	ese.			2		10		calm			sm'h		rainy.
Wyoming, Port Royal, S. C*	30.24	768.1	74	23.3	76	ne.	10	4.5			5		w.	0	0			fair.
Yantic, Portsmouth, N. H	30.32	770.1	58	14.4	76	nw.			1		2							clear.
Merchant Marine.																		
Allan Line.																		
S. S. Circassian, N. 50° 15′, W. 58° 45′	30.19	766.8	55	12.8	93	var.			1		0			0	0			blue sky.
S. S. Grecian, Port Said, Suez Canal *	29.88	758.9	83	28.3		n.			2		0			0	0			clear.
S. S. Nova Scotian, N. 50° 14′, W. 40° 32′	30.13	765.3	61	16.1		w.			3		5		wsw.			mod.	w.	fair.
S. S. Polynesian, Liverpool, England *	29.52	749.8	66	18.9		w.			8		3		w.	2 h'r	2 h'r			clear.
S. S. Scandinavian, N. 43° 00′, W. 61° 57′	29.86	758.4	60	15.6		ne.			3		8		ne.	0	0	mod.	ne.	d. clouds.
S. S. Waldensian, N. 54° 31′, W. 28° 43′*	30.12	765.0	55	12.8		wsw.			3		10		wsw.	5 h'r	5 h'r	short	cross	showery.
American Steamship Company.																		
S. S. British Crown, N. 39° 05′ W. 70° 20′†	30.32	770.1	71	21.7		nne.			4		4		nne.	0	0	mod.	ne.	fine.
S. S. Indiana, Philadelphia, Pa.†	30.25	768.3	82	27.8	95	e.			2		2		e.					fine.
S. S. Lord Clive, N. 49° 31′ W. 26° 41′*†	30.06	763.5				s.			2		10			0	0	mod.	nw.	misty.
S. S. Lord Gough, Delaware River	30.26	768.6	73	22.8		ssw.			3		0			0	0			fair.
S. S. Ohio, N. 41° 58′, W. 46° 17′†	30.11	764.8	79	26.1	95	sse.			4		3		s.			mod.	s.	clear.
Amsterdam Line.																		
S. S. Stella, N. 40° 02′, W. 66° 27′	30.20	767.1	64.8	18.2		n.			5		7		ne.	0	0	3	nne.	d. clouds.
Anchor Line.																		
S. S. Bolivia, New York, N. Y.†	29.71	754.6	66	18.9		wsw.			1		10			0	0			overcast.
S. S. Devonia, N. 54° 56′, W. 12° 32′†	29.79	756.7	61	16.1		wnw.			6		5?		wnw.			h'vy	wnw.	clear ?
S. S. Dorian, N. 40° 30′, W. 65° 18′ *	30.05	763.3	68	20.0		nne.			6		8		ne.	0	0	r'gh	ne.	cloudy.
Atlas Line.																		
S. S. Ailsa, N. 37° 40′, W. 74° 25′†	30.32	770.1	73	22.8	54	n.			2		0			0	0	light	ne.	fine.
S. S. Alene, Santa Marta, U. S. C.†	29.90	759.4																
British Meteorological Office.																		
Auckland, S. 43° 38′, E. 91° 31′	29.74	755.4	44	6.7	92	ssw.			4		9							squally.
S. Baroda, N. 16° 16′, W. 33° 06′	30.06	763.5	76.4	24.7	90	nne.			4		10							showery.
S. S. Basil, N. 8° 26′, W. 29° 19′	29.99	761.7	76.8	24.9	93	ssw.			4		10							raining.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind. Upper.	Amount and kind. Lower.	Direction. Upper.	Direction. Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH METEOROLOGICAL.—Continued.																		
S. S. Cipero, N. 20° 01′, W. 53° 35′	30.08	764.0	81.2	27.3	70	sse.			4		3							d. clouds.
S. S. Caldew, S. 37° 20′, E. 32° 58′	30.23	767.8	55.2	12.9	80	se.			6		8							d. clouds.
S. S. City of Agra, S. 40° 00′, E. 50° 45′	30.04	763.0	58	14.4	84	wnw.			6		4							d. clouds.
S. S. Gordon Castle, N. 49° 14′, W. 15° 05′	30.13	765.3	63	17.2	94	w.			5–6		10							drizzling.
S. S. Humboldt, S. 34° 37′, W. 58° 04′	30.26	768.6	55.0	12.8	91	ne.			3		10							overcast.
S. S. Minho, Montevideo, Uraguay	30.29	769.4	55.6	13.1	90	e.			2		8							d. clouds.
S. Oamarn, N. 27° 20′, W. 33° 40′	30.22	767.6	77.0	25.0	82	ene.			4									overcast.
S. S. Rosetta, N. 7° 00′, E. 78° 08′	29.82	757.4	79.5	26.4	82	w.			4		3							d. clouds.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 27° 19′, W. 114° 46′ *†	29.94	760.5	66	18.9	90	nnw.			3		8		nw.			mod.	w.	fair.
CROMWELL LINE.																		
S. S. Hudson, N. 34° 00′, W. 76° 55′†	30.32	770.1	76	24.4		nne.			3					0	0	mod.	ne.	clear.
CUNARD LINE																		
S. S. Marathon, Suez Canal, Egypt	29.84	757.9	85	29.4		nnw.			2		0			0	0	sm'h	nnw.	clear.
S. S. Scythia, N. 51° 07′, W. 13° 58′	30.00	762.0	62	16.7	?	wnw.			4		8		wnw.	4 h'r	4 h'r	short	wnw.	cloudy.
DONALDSON LINE.																		
S. S. Colina, Glasgow, Scotland.†	29.50	749.3				wsw.			5		6		wsw.					threatening.
GUION LINE.																		
S. S. Wisconsin, N. 51° 23′ W. 15° 40′	29.98	761.5	58	14.4		wnw.			4		5		wnw.	0	0	cross	w.	fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Frisia, N. 42° 36′, W. 50° 05′*	29.90	759.4	64	17.8		sse.			4		6		s.	6 h'r	6 h'r	mod.	s.	rainy.
S. S. Gellert, N. 41° 16′, W. 65° 47′	30.18	766.6	68	20.0		n.			3		5		n.	0	0	sm'h	n.	fair.
S. S. Herder, New York, N. Y*	29.94	760.5	79	26.1		nne.			1		0			0	0			clear.
S. S. Silesia, N. 48° 51′, W. 49° 11′	30.24	768.1	48.6	9.2		n.			5		10		nne.	0	0	3	n.	overcast.
S. S. Vandalia, N. 48° 12′ W. 24° 00′*	30.18	766.6	61.2	16.2		wsw.			4		10		wsw.	0	0	long	wsw.	foggy.
S. S. Westphalia, N. 50° 24′ W. 3° 03′	29.61	752.1	66	18.9	78	w.			6		9		w.	7 h'r	7 h'r	r'gh	w.	cloudy.
JOHNSTON LINE.																		
S. S. St. Albans, N. 49° 40′, W. 17° 25′ *†	30.22	767.6	66	18.9		w.			4					0	0	long	wnw.	foggy.
LAMPERT AND HOLT'S LINE.																		
S. S. Archimedes, off Liverpool Bar, Eng†	29.71	754.6				wnw.			8		3		wnw.	0	0	h'vy	wnw.	clear.
S. S. Hevelius, S. 20° 00′, W. 38° 00′.*†	30.49	774.4	76	24.4		e.			4		2		ese.	0	0			clear.
MALLORY LINE.																		
S. S. City of San Antonio, N. 33° 50′, W. 75° 08′*†	30.36	771.1				ne.			3		2		ne.	0	0	mod.	ne.	fair.
S. S. Colorado, New York, N. Y.†	30.30	769.6	67	19.4		n.			2		0			0	0			clear.
S. S. San Marcos, N. 28° 00′, W. 94° 00′	30.09	764.3				e.												fine.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, N. 41° 18′ E. 9° 35′*†	30.04	763.0	80	26.7	78	wsw.			2		5		w.	0	0	sm'h	w.	fair.
MERCHANTS' EXPRESS LINE.																		
S. S. Freja, N. 40° 25′, W. 68° 21′†	30.30	769.6	65	18.3	94	nnw.			4–5		5		w.	0	0	sm'h		fine.
S. S. Hermod, N. 45° 33′ W 31° 04′†	30.38	771.6	78.8	26		sw.			2		2		w.	0	0	mod.	nw.	fair.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenapp, Pernambuco, Brazil†	29.99	761.7				se.			4		6		se.	5 h'r	5 h'r	str'ng		heavy rain.
MORGAN LINE.																		
S. S. Chalmette, N. 40° 30′, W. 74° 00′†	30.32	77.01	66	18.9		n.			2		0			1 h'r	1 h'r	sm'h		clear.
S. S. New York, N. 34° 40′, W. 76° 00′†	30.15	765.8	79	26.1		ne.			4		0					small	ne.	clear.
NATIONAL LINE.																		
S. S. Canada, N. 41° 03′, W. 64° 13′†	30.09	764.3				n.			6		6		nne.	0	0	sm'h		
S. S. Denmark, London, England	29.73	755.1	67	19.4		w.			5		10		w.	2 h'r	2 h'r			cloudy.
S. S. England, off Sandy Hook, N. J	30.33	770.4				wnw.			4		0			0	0	sm'h		clear.
S. S. Erin, N. 47° 40′ W. 32° 40′	30.22	767.6	60	15.6	88	sw.			5		10		sw.	10 h'r	10 h'r	mod.	wsw.	hazy.
S. S. Helvetia, N. 50° 14′, W. 20° 55′	30.13	765.3	62	16.7		wnw.			1					3 h'r	3 h'r	slight	nw.	foggy
S. S. The Queen, off Dover, Eng	29.76	755.9	62	16.7		wsw.			5		10?		nw.	3 h'r	3 h'r	mod.	wsw.	clear ?
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, St. Jago, Cuba, W. I†	30.07	763.8	82	27.8		n.			2		1			0	0			fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 25° 35′ W. 75° 19′†	30.13	765.3	84	28.9	83	ene.			5		5		e.	0	0	small	se.	fair.
S. S. City of Puebla, N. 30° 59′, W. 78° 37′†	30.13	765.3	83	28.3		ne.			7		5		ne.			mod.	ne.	fair.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N 48° 05′, W. 43° 42′*	30.13	765.3	66	18.9		wnw.			3								w.	foggy.
S. S. Maas, N. 49° 48′, W. 5° 14′*	29.87	758.7	66	18.9		w.			6							high		squally.
NORTH GERMAN LLOYD.																		
S. S. Donau, N. 40° 39′, W. 62° 42	30.12	765.0				nnw.			5–6		5		nne.	sh'rs	sh'rs	r'gh	nne.	fair.
S. S Elbe, N. 48° 54′, W. 34° 27′	30.10	764.4	60.8	16.0	100	se. to s.			3–4		10			4 h'r	4 h'r	long	s.	drizzling.
S. S. Gen. Werder, N. 49° 13′, W. 38° 38′	30.09	764.3				calm			0		10			6 h'r	6 h'r	long	wsw.	covered.
S. S. Graf Bismarck, S. 10° 28′, W. 35° 08′	30.29	769.4	76.1	24.5		ese.			5		3		se.	4 h'r	4 h'r	long	se.	clear.
S. S. Habsburg, N. 48° 40′, W. 23° 33′	30.24	768.1	63.5	17.5		wsw.			5		10			14 h'r	14 h'r	r'gh	wsw.	foggy.
S. S. Leipzig, N. 48° 58′, W. 18° 00′	30.20	767.1	63.0	17.2	100	w.			4		10			0	0	mod.	wnw.	foggy.
S. S. Ohio, N. 40° 19′, W. 59° 55′	30.01	762.2				nne.			5		8		nne.	8 h'r	8 h'r	cross	n.	cloudy.
S. S. Salier, N. 49° 04′, W. 16° 29′	30.20	767.1	59.0	15.0		wnw.			3		10		nw.	0	0	mod.	wnw.	hazy.
S. S. Strassburg, N. 50° 09′, W. 19° 28′	30.11	764.8	64.0	17 8	89	wnw.			2		10		wnw.	10 h'r	10 h'r	r'gh	wnw.	covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 48° 00′, W. 170° 40′†	30.23	767.8	53	11.7	93	w.			4		8		w.	sh'rs	sh'rs	mod.	w.	fair.
S. S. Belgic, Hong Kong, China†	29.85	758.2	80	26.7	87	sw.			2		10		sw.					light rain.
S. S. Coptic, N. 47° 14′, W. 162° 04′	30.16	766.1	50.0	10.0	?	wnw.			2		10		w.	0	0	3	w.	overcast.
S. S. Gaelic, Hong Kong, China†	29.76	755.9	81	27.2	91	sw.			7		10		sw.					raining.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 38° 50′, W. 74° 38′†	30.35	770.9				wnw.			3		0			0	0			clear.
S. S. Seminole, N. 34° 30′ W 76° 05′†	30.32	770.1	78	25.6	73	nne.			2		2		ne.	0	0	sm'h	ne.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 41° 52′, W. 124° 42′†	30.12	765.0	56	13.3	94	n.			2		0					light	nw.	fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, Portland, Oregon.†	30.04	763.0	56	13.3	94	calm			0									foggy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 36° 11′ W. 121° 47′†	29.89	759.2	52	11.1	93	ne.			1		10		nw.			mod.	nw.	dense fog.
S. S. City of Chester, San Francisco, Cal*†	29.12	739.6	53	11.7	?	calm			0		10?							clear.?
S. S. Idaho, N. 42° 53′, W. 124° 37′†	30.06	793.5	54	12.2	93	nnw.			7		10		w.	0	0	r'gh	nw.	foggy.
S. S. State of California, N. 45° 50′, W. 124° 10′†	30.12	765.0	60	15.6	94	nne.			3		10		n.			sm'h	nw.	overcast.
S. S. Victoria, New Westminster, B. C†	30.02	762.5	60	15.6	94	calm			0		8			6 h'r	6 h'r	sm'h		drizzling.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 8° 32′, W. 169° 00′	29.85	758.2	78	25.6	91	ne.			4		5?		ne.	0	0	long	ne.	clear?
S. S. City of New York, Sydney, N. S. W.†	30.15	765.8	59	15.0	76	calm			0		8		s.	1 h'r	1 h'r			cloudy.
S. S. City of Pekin, Yokohama, Japan†	30.05	793.3	78	25.6	91	se.			1		5		se.	0	0	sm'h		fair.
S. S. City of Tokio, N. 35° 26′, E. 139° 39′†	30.00	762.0	80	26.7	91	sw.			2		0			0	0			fine.
S. S. Colima, N. 7° 15′, W. 80° 17′†	29.99	761.7	78	25.6	86	n.			4		10		n.	0.05	1.3	sm'h	sw.	cloudy.
S. S. Colon, N. 21° 07′, W. 74° 09′†	30.07	763.8	84	28.9		ene.			4		1		e.	0	0	sm'h		clear.
S. S. Costa Rica, N. 26° 56′ W. 114° 30′*	29.90	759.4	66	18.9	84	n.			1		4		nnw.	0	0	light	sw.	fair.
S. S. Clyde, N. 31° 32′, W. 119° 34′†	29.96	761.0	64	17.8	68	sw.			1		10		wsw.	0	0	sm'h	wnw.	cloudy.
S. S. Grenada, N. 22° 40′, W. 106° 06′†	29.95	760.7	80	26.7	82	nnw.			1		10		n.	4 h'r	4 h'r	sm'h	sw.	cloudy.
S. S. Zelandia, S. 33° 37′, E. 165° 04′	30.39	771.9	55	12.8	93	se.			2		10		w.			sm'h		cloudy.
QUEBEC S. S. COMPANY.																		
S. S. Bermuda, N. 34° 15′, W. 70° 16′†	30.23	767.8	78	25.6		n.			4		3		n.	0	0	long	n.	fine.
S. S. Muriel, Guadeloupe, W. I	30.04	763.0	82	27.8		sse.			3		10			0	0	sm'h		overcast.
RED D LINE.																		
S. S. Caracas, N. 21° 52′ W. 68° 18′*†	30.00	762.0				nne.			5		5		ne.	shr's	shr's		ne.	showery.
S. S. Valencia, N. 14° 07′, W. 67° 28′*†	30.18	766.6	85	29.4	76	se.			2		3		e.	0	0	sm'h	se.	fine.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Red Star Line.																		
S. S. Belgenland, N. 41° 02′, W. 60° 32′†	30.14	765.5	68	20.0	84	ne.			6		2?		ne.	sq'lls	sq'lls	r'gh	var.	cloudy.?
S. S. Nederland, N. 40° 43′, W. 63° 45′†	30.15	765.8	66	18.9	89	n.			5		2		n.	0	0	mod	n.	clear.
S. S. Pennland, New York, N. Y.	30.27	768.8				var.			2		2		n.	0	0			fine.
S. S. Rhynland, N. 41° 20′ W. 49° 30′	30.10	764.5	78	25.6	82	s.			6		6		ssw	0	0	long	sw.	threatening.
S. S. Switzerland, N. 49° 12′ W. 13° 44′†	30.21	767.3				wnw.			3		10		wnw.	6 h'r	6 h'r	long	wnw.	misty.
S. S. Vaderland, Antwerp, Belgium	29.64	752.8	64	17.8	73	sw.			5		8		sw.	3 h'r	3 h'r			cloudy.
S. S. Waesland, N. 48° 37′, W. 22° 51′	30.23	767.8	63	17.2	100	wsw.			4		10		wsw.	0	0	mod.	w.	dense fog.
Rotterdam Line.																		
S. S. Edam, Amsterdam, Holland	29.92	760.0	63.0	17.2	97	sw.			8		9		sw.	11 h'r	11 h'r			fair.
S. S. Schiedam, N. 43° 55′, W. 51° 42′	29.95	760.7	66.6	19.2	90	ne.			6		10			12 h'r	12 h'r	h'vy	ene.	raining.
Royal Mail Steam Packet Co.																		
S. S. Belize, Kingston, Jamaica	30.03	762.7	83.5	28.6		calm			0		2		calm	0	0			fine.
State Line.																		
S. S. State of Florida, N. 55° 30′, W. 7° 07′	29.53	750.0	63	17.2		wnw.			6		10		wnw.	6 h'r	6 h'r	h'vy	wnw.	cloudy.
S. S. State of Georgia, N. 45° 23′, W. 51° 50′†	30.06	763.5	58	14.4		ne.			6		10		ne.	5 h'r	5 h'r	sharp	ne.	dull.
Thingvalla Line.																		
S. S. Thingvalla, N. 40° 33′, W. 66° 27′†	30.40	772.1	69.8	21.0	77	ne.			4		3		ne.	0	0	r'gh	ne.	clear.
White Cross Line.																		
S. S. Plantyn, N. 45° 41′, W. 24° 37′	30.40	772.1	74	23.3					1–3		8					3	nw.	cloudy.
White Star Line.																		
S. S. Adriatic, New York, N. Y *†	30.40	772.1	64.5	18.1	94	ne.			2		2		e.	0	0			clear.
S. S. Baltic, N. 40° 54′ W. 67° 58′	30.26	768.5	62	16.7	83	nw.			3		3		nw.	0	0	sm'h		d. clouds.
S. S. Britannic, N. 41° 09′, W. 59° 56′†	30.07	763.8	67	19.4	95	n.			5		10		sw.	0	0	mod.	ne.	d. clouds.
S. S. Celtic, N. 51° 10′, W. 12° 36′†	30.11	764.8	62	16.7	83	nw.			4		8		nw.	1 h'r	1 h'r	h'vy	wnw.	fair.
S. S. Germanic, N. 49° 47′, W. 32° 06′†	30.22	767.6	59	15.0		sse.			2		10		wsw.	8 h'r	8 h'r	light	con.	misty.
S. S. Republic, Liverpool, Eng†	29.86	758.4	60	15.6	71	nw.			6		5		nw.	sh'rs	sh'rs			d. clouds.
Wilson Line.																		
S. S. Otranto, N. 50° 12′ W. 34° 31′†	30.31	769.9	58	14.4		s.			2		10		s.			r'gh	s.	cloudy.
S. S. Romano, N. 39 47′, W. 69° 10′	30.22	767.6	68	20.0		n.			4		2		n.	0	0	cross		clear.
S. S. Salerno, N. 50° 17′, W. 3° 00′*	29.69	754.1	62	16.7		sw.			6		9		sw.	0	0	h'vy	sw.	
Winsor Line.																		
S. S. Catherine Whiting, Philadelphia, Pa.†	30.32	770.1	76	24.4		se.			1		0			0	0			
Miscellaneous.																		
Bk. Adelaide, N. 22° 55′, W. 52° 37′*†	30.18	766.6	84	28.9		se.			5		4		se.	0	0	sm'h	se.	raining.
Schr. Anna A. Holton, N. 30° 12′, W. 70° 20′†	30.07	763.8	82	27.8		wnw.			3		8		nw.	2 h'r	2 h'r	mod.	w.	cloudy.
Bk. Anna Thormann, S. 17° 58′ E. 106° 28′	30.09	764.2	70.0	21.1	73	se.			5		2 k		se.	0	0	mod.	se.	clear.
S. S. Antonio Lopez, N. 43° 30′, W. 4° 19′*	30.22	767.6	68.5	20.3	90	wnw.			5		8			20 h'r	20 h'r	mod.		clear.
Schr. Asa Eldridge, Key West, Florida†	30.17	766.3				e.			6		5		ne.	0	0			squally.
Bk. Aureola, N. 16° 35′, W. 51° 08′*†	30.15	765.8	86	30.0		e.			3		2		ne.	½ h'r	½ h'r	h'vy	ne.	clear.
Bk. B. F. Watson, N. 9° 18′ W. 31° 44′†	29.95	760.7	82	27.8		nw.			1		8			4 h'r	4 h'r	h'vy	sw.	fine.
Bk. Bergenseren, N. 41° 05′, W 22° 50′†	30.42	772.6				ne.			1		10		sw.	0	0	1	nw.	fair.
Bk. Bremen, N. 48° 53′, W. 38° 05′*†	30.17	766.3				sw.			2		10		sw.	0	0		sw.	foggy.
S. S. Burswell, N. 47° 00′, W. 18° 10′*†	30.26	768.6	72	22.2		wsw.			4		10		wsw.	24 h'r	24 h'r	str'g	wnw.	
Bk. Cato, between Oland & Gotland, Sweden*†	30.05	763.3				ssw.			3		5		wsw.					cloudy.
Bk. Celestina, N. 22° 03′, W. 34° 37′*†	30.07	763.8				ne.			2		10			0	0	long	n.	covered.
S Dora, S. 24° 00′, W. 34° 45′†	30.47	773.9	75.2	24.0		ese.			2–4		3 ks		ese.	0	0	mod.	se.	clear.
Schr. Edith R. Seward, Baltimore, Md*†	30.39	771.9	65	18.3		se.			1		2		sse.	0	0			clear.
S. E. J. Spicer, N. 44° 50′, W. 34° 20′*	30.28	769.1	75	23.9		ssw.			4		0			0	0	mod.	wnw.	clear.
S. Enoch Train, Weser river, Ger†	29.75	755.6				sw.			6		5		sw.					showery.
Bk. Essex, Aden, Arabia*†	29.67	753.6	89	31.7		sw.			6		0							
Bk. Franklin, N. 56° 26′, E. 12° 02′*†	30.83	783.1				var.			2		8			0	0	sm'h		hazy.
Bk. Freya, N. 42° 43′, W. 42° 44′			78	25.6		s.			5		2		ssw.	1 h'r	1 h'r	mod.	sw.	clear.
S. Glendon, N. 33° 50′ W. 46° 00′†	30.21	767.3	84	28.9		sse.			4		8		sse.	0	0	sm'h		fair.
Bk. Godefroy, N. 20° 04′ W. 25° 32′	30.03	762.7	77.2	25.1	80	ene.			3–4		7		ene.	0	0	mod.	nne.	hazy.
S. Grecian, N. 8° 20′, E. 110° 56′*†	29.80	756 9	84	28.9		ssw.			2		3		e.	1 h'r	1 h'r	sm'h		clear.
Bk. Gronsvaer, N. 9° 00′, W. 28° 30′†	29.92	760.0				sw.			2		6		e.	4 h'r	4 h'r	mod.	s.	cloudy.
Bk. Hattie G. McFarland, Bath, Maine*†	30.30	769.6	56	13.3		nne.			1		2		n.	0	0			clear.
Schr. Hattie Weston, N. 34° 22′, W. 74° 35′*†	30.32	770.1	79	26.1		ne.			3		8		nne.	0	0	mod.	ene.	fair.
Bk. Heinrich & Tonio, N. 52° 28′, E. 3° 03′*†	29.91	759.7	62	16.7		wsw.			6		5		wsw.	0	0	sm'h		fair.
Schr. Henry Denison, N. 28° 04′, W. 70° 30′†	29.96	761.0				nne.			4		5		n.			long	n.	fair.
Bk. Horace Scudder, N. 12° 20′ W. 62° 10′†	30.07	763.8	88	31.1		calm			0		1		calm	0	0	sm'h		blue sky
S. Ivy, S. 55° 32′, W. 75° 58′†	29.31	744.5	42	5.6		nnw.			7		10		nnw.			h'vy	cross	drizzling.
S. Ismir, N. 11° 40′, E. 110° 50′†	29.87	758.7				sse.			2		4		se.			sm'h		fine.
Schr. Jennie N. Huddell, Lynn, Mass†	30.23	767.8	64	17.8	94	nw.			1					0	0			hazy.
Schr. John L. Thomas, N. 31° 30′, W. 71° 50′*†	30.24	768.1				ne.			6		5		sw.	0	0	mod.	ne.	squally.
Bg. John Wesley, Guantanamo W. I.†	29.86	758.4				nw.			1		1			¼ h'r	¼ h'r			clear.
Bk. Joseph A. Ropes, S. 33° 27′, E. 42° 40′*†	30.27	768.8	65	18.3	83	nw.			4		9		nnw.	2 h'r	2 h'r	mod.	nne.	cloudy.
Bkt. Josephine, Havana, Cuba, W. I.†	30.07	763.8	82	27.8	83	ese.			1		8			1 h'r	1 h'r			fair.
S. S. Lamperts, N. 40° 24′, E. 26° 43′*	29.90	759.4	77.0	25.0	57	ne.			4		0							blue sky.
Light House Tender, Laurel, Key West, Fla†	30.13	765.3	84	28.9		e.			2		9		e.	0	0			cloudy.
Schr Maggie Abbott, N. 19° 26′, W. 72° 43′†	30.18	766.6	54	12.2		wnw.			4		8		wsw.	0	0	mod.	nnw.	fair.
S. S. Malabar, N. 38° 52′, W. 148° 32′†	29.97	761.2									2			0	0			
S. Minnie N. Gerow, N. 36° 07′, W. 26° 58′*†	30.22	767.6				w.			6		10		w.	6 h'r	6 h'r	str'g	w.	raining.
S. M. P. Grace, S. 13° 45′, W. 107° 37′*	30.11	764.8				ene.			4		5		ese.			sm'h	e.	fair.
Bk. National Eagle, N. 48° 41′, W. 8° 02′†	30.09	764.3	71	21.7		e.			2				se.	0	0	sm'h	se.	squally.
S. S. Nebo, N. 36° 43′, W. 33° 58′*†	30.06	763.5				nw.			3		10		nw.	0	0	mod.	nw.	dense fog.
S. Oracle, N. 34° 32′, W. 47° 30′*	30.10	764.5				sse.			2		1		w.	0	0	long	ne.	clear.
S. Orealla, N. 9° 40′, W. 29° 00′*	30.21	767.3	81	27.2	90	var.			1		4							squally
Bk. Rosebud, S. 23° 53′ E. 59° 27′*†	29.86	758.4				ene.			2		6		ene.	0	0	long	ssw.	squally.
S. St. Francis, N. 31° 58′, W. 39° 33′†.	30.30	769.6	72	22.2	90	e.			6		2		e.	2 h'r	2 h'r	sharp	sw.	fine.
Schr. S. B. Hubbard, Gardiner, Maine†	30.31	769.9	80	26.7		ese.			3		4		se.	0.12	3.0	sm'h	ese.	squally.
Bk. Sunbeam, N. 38° 00′ W. 21° 00′†	30.34	770.6	60	15.6		ne.			1		0			0	0			fine.
S. S. Sunbeam, Rotterdam, Holland	30.52	775.2	73	22.8	90	ne.			3		8		ne.	0	0	mod.	nw.	cloudy.
S. Sovereign of the Sea, S. 56° 26′, W. 66° 10′*†	29.67	753.6	66	18.9	94	wnw.			5		8		wnw.					gloomy.
U.S.F.C.S.S. Fish Hawk, Wood's Holl, Mass†	29.29	744.0	41	5.0	100	ne.			3		6	n.	ne.	3 h'r	3 h'r	mod.	wsw.	cloudy.
Schr. Victor Ping, N. 16° 38′, W. 68° 18′*†	30.44	773.2	63	17.2	83	ne.			2		8		calm	0	0			cloudy.
Bk. Vincenzo Accame N. 39° 51′, W. 69° 18′†	30.02	762.5				nw.			3		2		nw.			sm'h	ne.	fair.
Schr Viola Reppard, Savanah, Ga†	30.47	774.0	68.6	20.0		n.			8		0							clear.
Bk. Wandering Jew, N. 40° 44′, W. 69° 05′*†	30.16	766.1	81	27.2		ne.			3		8		ne.	0	0			cloudy.
Bg. Wauburn, N. 27° 35′ W. 74° 54′*†	30.27	768.8	64	17.8		n.			2		3		n.	0	0	sm'h		clear.
Bk. Warden Law, N. 48° 58′, W. 13° 09′*	30.10	764.5				n.			4		4		nnw.			sm'h	e.	¼ covered
S. Wm. Woodbury, N. 60° 55′, W. 0° 48′*	30.25	768.3				wsw.			4		10		wnw.	4 h'r	4 h'r	mod.	w.	hazy.
	29.55	750.6	58	14.4	93	ssw.			6		4		sw.			cross	sw.	

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 22, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours	.....	.....	30.10	764.6	81.7	27.6	82	s.	.....	.....	3	.....	3	.....	.....	0	0	pretty fair	Bouvier.
Algiers	.....	.....	30.08	764.1	78.8	26.0	76	ne.	.....	.....	1	.....	0	.....	.....	0	0	clear	Thève.
La Galle	.....	.....	30.08	763.9	85.6	29.8	71	nnw.	.....	.....	1	.....	2	.....	.....	0	0	fair	Fonfrède.
Tunis	.....	.....	30.07	763.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Jacques.
Saida	.....	.....	30.13	765.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Perès.
Tebessa	.....	.....	30.13	765.4	78.1	25.6	38	n.	.....	.....	1	.....	0	.....	.....	0.035	0.9	clear	Rigaud.
Geriville	.....	.....	.....	.....	86.0	30.0	7	n.	.....	.....	4	.....	0	.....	.....	0	0	clear	Lonchamp.
Laghouat	.....	.....	30.14	765.6	95.0	35.0	30	n.	.....	.....	1	.....	1	.....	.....	0	0	very fair	Abraham.
Biskra	.....	.....	30.12	765.1	95.4	35.2	30	nw.	.....	.....	1	.....	2	.....	.....	0	0	fair	Malau.
Australian.																			
Melbourne, Victoria	30.18	766.6	30.27	768.8	51.8	11.0	87	s.	3	1.3	.....	.....	10	.....	.....	0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.24	742.6	29.78	756.3	58.6	14.8	97	e.	.....	.....	1	.....	10	.....	.....	1.370	34.8	thnd'r storm	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.79	731.3	29.53	750.1	64.0	17.8	55	w.	17.4	7.8	.....	.....	8	.....	.....	0.083	2.1	.....	Dr. Wierzbiski.
Eperies	28.80	731.6	29.66	753.4	59.7	15.4	93	calm	.....	.....	0	.....	10 ks	.....	n.	0.165	4.2	.....	Julius Mikolik.
Gratz	28.52	724.5	29.74	755.5	63.1	17.3	85	w.	.....	.....	2	.....	7	.....	.....	0.713	18.1	.....	Andreas Rospini.
Hermannstadt	28.30	718.8	29.67	753.6	67.8	19.9	85	w.	.....	.....	1	.....	10	.....	.....	0.402	10.2	.....	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.49	723.7	29.82	757.5	53.4	11.9	68	nw.	.....	.....	2	.....	10	.....	.....	0.185	4.7	raining	The Staff.
Lemberg	28.64	727.4	29.58	751.4	68.9	20.5	60	sw.	.....	.....	3	.....	9	.....	.....	0	0	.....	Dr. T. Stanecki.
Pola	29.63	752.5	29.73	755.2	79.7	26.5	61	ssw.	.....	.....	3	.....	2	.....	.....	0	0	.....	I. R. Hydrographic Office.
Szathmar	29.18	741.2	29.63	752.5	73.0	22.8	55	w.	.....	.....	4	.....	5	.....	.....	0.236	6.0	.....	Joseph Midlinszay, S. J.
Szegedin	29.45	748.1	29.73	755.1	57.9	14.4	96	sw.	.....	.....	4	.....	10	.....	.....	0.630	16.0	thunder	Karl Stancel.
Trieste	29.63	752.5	29.73	755.1	75.9	24.4	69	calm	.....	.....	0	.....	10	.....	.....	0	0	.....	Royal Academy.
Vienna	29.06	738.0	29.75	755.7	64.8	18.2	47	nw.	.....	.....	3	.....	3	.....	.....	0.122	3.1	.....	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.35	745.5	29.44	747.8	60.7	15.9	59	wnw.	20	8.9	.....	.....	7	.....	.....	0.150	3.8	squally	W. Boswell
Armagh, Observatory	29.49	749.0	29.72	754.9	54.5	12.5	90	sw.	7	3.1	.....	.....	10	.....	.....	.....	.....	gloomy	S. Call.
Bidston, Liverpool Obs'y	.....	.....	29.73	755.1	56.5	13.6	68	w.	30	13.4	.....	.....	10	.....	.....	.....	.....	overcast	John Hartnup.
Bolton, Sharples	29.20	741.7	29.73	755.1	56.0	13.3	77	wsw.	18	8.0	.....	.....	9	.....	.....	.....	.....	overcast	Thomas Mackereth.
Bradford, Yorkshire	29.28	743.7	29.68	753.9	57.8	14.3	70	nw.	.....	.....	4	.....	10	.....	.....	0.19	4.8	overcast	McLandsborough&Preston
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	85.0	29.4	73	se.	.....	.....	2	.....	3	.....	.....	.....	.....	d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington	.....	.....	29.74	755.4	61.4	16.3	70	nw.	.....	.....	4.0	.....	8	.....	.....	.....	.....	overcast	John McLaren.
Chatham, School M. E.	29.72	754.9	29.85	758.2	62.3	16.8	52	w.	.....	.....	1	.....	10	.....	.....	blank	blank	gloomy	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.72	754.9	29.94	760.5	61.8	16.6	67	sw.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	The Staff.
Fort Napier, Natal	26.91?	683.5?	29.13?	739.9?	70.0	21.1	35	ne.	.....	.....	1	.....	4	.....	.....	.....	.....	blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.67	753.6	29.89	759.2	79.0	26.1	78	w.	.....	.....	1	.....	7	.....	.....	.....	.....	.....	Sergt. John Robinson.
Gibraltar, Mediterranean	30.01	762.2	30.06	763.5	79.0	26.1	84	e.	.....	.....	3	.....	2	.....	.....	.....	.....	blue sky	Corpl. F. Norris, A. H.C
Glasgow, Observatory	29.40	746.7	29.60	751.8	54.7	12.6	73	wsw.	.....	.....	5	.....	10 k	.....	.....	.....	.....	gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.67	753.6	29.84	757.9	63.6	17.6	51	w.	.....	.....	4	.....	10	.....	.....	.....	.....	overcast	The Staff.
Guernsey	29.72	754.9	30.01	762.2	62.5	16.9	69	w.	.....	.....	2	.....	0	.....	.....	blank	blank	blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.81	757.2	29.85	758.2	62.6	17.0	46	w.	19	8.5	.....	.....	9	.....	.....	.....	.....	threatening	The Staff.
Leicester, Museum	29.52	749.8	29.77	756.1	59.0	15.0	59	w.	.....	.....	1	.....	10	.....	.....	.....	.....	overcast	J. C. Smith.
Malta, Mediterranean	29.88	758.9	29.95	760.7	81.6	27.6	82	n.	.....	.....	3	.....	3	.....	.....	.....	.....	blue sky	W. D. Ballau.
Nassau, Bahamas	30.04	763.0	30.08	764.0	85.4	29.4	68	ne.	.....	.....	3	.....	8	.....	.....	.....	.....	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.28	743.7	29.80	756.9	58.5	14.7	64	wsw.	.....	.....	6	.....	10	.....	.....	.....	.....	overcast	Warren Middleton.
Oxford, Radcliffe Obs'y	29.00	751.8	29.83	757.7	61.0	16.1	57	wsw.	.....	.....	6	.....	9	.....	.....	.....	.....	squally	The Staff.
Plymouth	29.87	758.7	29.94	760.5	64.8	18.2	64	sw.	.....	.....	3	.....	10	.....	.....	.....	.....	overcast	John Merrifield.
Sandwick Manse, Orkneys	.....	.....	29.40	746.7	55.2	12.9	85	.....	.....	.....	.....	.....	10	.....	.....	.....	.....	drizzling	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.08	753.9	29.74	755.4	89.2	31.8	43	ne.	.....	.....	2	.....	1	.....	.....	.....	.....	blue sky	W. H. Lyne.
Sheffield	29.46	748.3	29.74	755.4	59.4	15.2	74	w.	.....	.....	1	.....	9	.....	.....	0.36	9.1	overcast	W. F. Cooper.
Silloth Rectory	29.62	752.3	29.65	753.1	56.3	13.5	77	wsw.	.....	.....	5	.....	10	.....	.....	0.840	21.3	gloomy	Rev. F. Redford, M. A.
Stonyhurst, Observatory	.....	.....	29.72	754.9	57.5	14.2	62	w.	23	10.3	.....	.....	10	.....	.....	.....	.....	overcast	I. New.
Stratfield Turgiss	.....	.....	.....	.....	66.1	18.9	46	nw.	.....	.....	3-4	.....	10	.....	.....	.....	.....	squally	Rev. C.H. Griffiths, F.M.S
Truro, Royal Institution	29.81	757.2	29.82	757.4	65	18.3	89	sw.	.....	.....	6	.....	10	.....	.....	.....	.....	raining	W. Newcombe.
Valencia, Observatory	29.61	752.1	29.63	752.6	60.7	15.9	97	sw.	32	14.3	.....	.....	10	.....	.....	.....	.....	raining	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Hon. J. Ferguson.
Charlottetown, P. E. Island	30.05	763.3	30.09	764.3	55	12.8	94	nw.	4	1.8	.....	.....	10 n	.....	n.	0.215	5.5	light rain	H. J. Cundall, C. E.
Chatham, N. B*	30.10	764.5	30.16	766.1	52	11.1	86	e.	1	0.4	.....	.....	10 s	.....	e.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	30.15	765.8	30.17	766.3	49	9.4	89	nw.	3	1.3	.....	2 cs	0	calm	.....	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.13	739.9	29.93	760.2	60	15.6	93	w.	2	0.9	.....	3 k	0	w.	.....	0	0	fair	James Stewart.
Halifax, N. S*	29.99	761.7	30.12	765.0	56	13.3	93	w.	4	1.8	.....	.....	fg	.....	.....	0.063	1.6	dense fog	A. Allison.
Kingston, Ontario*	29.83	757.7	30.15	765.8	65	18.3	84	e.	5	2.2	.....	2 ck	5 k	.....	ne.	0.01	0.3	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.96	761.0	30.16	766.1	62	16.7	54	s.	4	1.8	.....	0	8k	.....	.....	0	0	smoky	C. H. McLeod, C. E
Parry Sound, Ontario*	29.43	747.5	30.11	764.8	63	17.2	93	se.	4	1.8	.....	.....	10 n	.....	se.	0.34	8.6	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.45	748.0	30.12	765.0	64	17.8	100	n.	4	1.8	.....	.....	10 n	.....	sw.	0.72	18.3	threatening	H. Morgan.
Port Stanley, Ontario	29.49	749.0	30.12	765.0	65	18.3	97	ne.	1	0.4	.....	.....	10 k	.....	nw.	0.15	3.8	cloudy	M. Payne.
Quebec, Quebec*	29.87	758.7	30.19	766.8	55	12.8	83	calm	.....	.....	0	0	hz	.....	.....	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.69	754.1	30.13	765.3	62	16.7	93	se.	2	0.9	.....	.....	10 s	.....	se.	0.07	1.8	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.39	746.5	30.08	764.0	66	18.9	93	se.	4	1.8	.....	.....	10 s	.....	.....	0.40	11.7	light rain	
St. Andrews, N. B	30.09	764.3	30.14	765.5	53	11.7	91	calm	0	0	.....	3 k	2 k	.....	.....	0	0	fair	
Sydney, C. B*	29.94	760.5	30.00	762.0	50	10.0	96	nw.	14	6.3	.....	.....	10 n	.....	nw.	1.05	26.7	light rain	T. C. Hill, C. E
Toronto, Ontario*	29.76	755.9	30.14	765.5	63	17.2	93	n.	3	1.3	.....	.....	10 ks	.....	.....	0.25	6.3	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.10	764.5	30.16	766.1	52	11.1	93	calm	0	0	.....	3 ck	0	n.	.....	0	0	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.76	730.5	30.13	765.3	62.0	16.7	100	wsw.	.....	.....	2	.....	10	.....	.....	0.337	8.6	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.91?	759.7?	30.16?	766.1?	60	15.6	100	se.	2	0.9	.....	.....	fg	.....	.....	0.50	12.7	foggy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.12	765.0	30.14	765.5	62	16.7	82	w.	17.7	7.9	.....	3 k	0	.....	.....	0	0	hazy	C. Hansen.
Cape Town, C. G. H. Obs'y	30.16	766.1	30.19	766.8	65.0	18.3	63	s.	21	9.4	.....	0	0	.....	.....	0	0	.....	The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.72	754.8	29.74	755.5	75.6	24.2	82	nne.	0.7	0.3		9 ck	0	ne.		0.618	15.7	covered	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.29	743.9	29.34	745.1	62.6	17.0	70	wsw.	13	6			9					raining	Oversergent Fischer.
Fanöe	29.35	745.5	29.37	746.0	62.6	17.0	78	wnw.			4		5						Overloerer Lauridsen
Godthaab, Greenland	29.82	757.5	29.87	758.6	40.5	4.7	94	s.			7		10			0.138	3.5		S. Kleinschmidt.
Ivigtut	30.05	763.2	30.07	763.7	41.0	5.0		calm			0		10					foggy	
Stykkisholm, Iceland	29.80	756.8	29.84	757.9	45.3	7.4	82	ne.			4		8						A. O. Thorlacius.
Thorshavn	29.26	743.2	29.30	744.1	55.4	13.0	78	n.	4	2			8						Overloerer Bergh.
Vestervig	29.23	742.5	29.32	744.8	62.4	16.9	73	wnw.			2		4						Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.48	748.8	30.12	765.0	69.1	20.6	80	nnw.			1		kn		w.	0	0		M. Labroue, Director.
Alençon, Normal School	29.53	750.0	30.08	764.0	64.8	18.2	71	sw.			4		kn	s.	s.	0.47	12.		M. Nicot, Director.
Arras, Engineer School	29.66	753.3	29.91	759.7	61.7	16.5	71	sw.			9		kn			0	0		M. Fénéon, Command't.
Avignon, Normal School	29.93	760.1	30.00	762.1	79.2	26.2	48	n.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.47	748.5	30.02	762.4	64.2	17.9	47	w.			2		8		nw.	0.024	0.6	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.71	754.5	29.97	761.1	64.2	17.9	53	wsw.			2		8		w.	0.020	0.5	very cloudy	M. Frère Eugène Maris.
Besançon, Normal School	29.95	737.8	29.92	760.0	66.2	19	79	sw.			1		5		sw.	0	0	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.91	759.7	30.17	766.2	69.8	21.0	73	nw.			1		8			0.071	1.8	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.53	750.0	30.07	763.7	64.4	18	53	wsw.							wsw.	0.007	1.7		M. Malet, Director.
Brest, Naval Observatory	29.84	757.9	30.08	764.1	67.3	19.6	67	sw.			2		8		sw.	0	0		M. de Kermaree, Dir.
Caen, Normal School	29.93	760.1	30.00	762.1	51.4	10.8	80	w.			2		5		w.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.57	751.1	29.88	758.9	65.5	18.6	49	w.			4		5		w.	0	0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.38	746.3	29.88	758.9	64.0	17.8	59	w.			3		10			0.098	2.5	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.74	730.0	30.06	763.4	70.5	21.4	45	w.			3	0	2 k			0	0	¼ covered	M. Alluard, Director.
Cluny, Normal School	29.25	743.0	30.08	764.1	63.3	17.4	61	wnw.			3		6		w.	0.169	4.3		M. de Villemontée, Dir.
Commercy, Normal School	28.17	715.4	29.97	761.3	60.8	16	56	w.			6		kn	w.	w.	0.012	0.3		Dr. Coulet, Director.
Gap, Normal School	27.48	698.1	29.90	759.5	77.7	25.4	15	s.			4		4		s.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.85	732.8	29.93	760.1	77.0	25.0	61	nw.			6		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.16	740.7	29.91	759.6	71.2	21.8	45	nw.			4	ck		s.	n.	0.020	0.5		M. Ablard, Director.
Lamballe, Normal School					68.7	20.4	55	nw.			3		1		nw.	0	0	clear	M. Ollitrault, Director.
Lescar, Normal School	29.45	748.1	30.02	762.4	70.7	21.5	70	w.			1		5			0	0	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	30.03	762.7	30.13	765.3	67.6	19.8	67	w.			2		5		w.	0.118	3.0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.95	737.9	30.09	764.2	66.7	19.3	44	nw.			2	0	2 n		w.	0.016	0.4	slightly cl'dy	M. André, Director.
Mans, Normal School	29.74	755.4	30.04	763.1	64.4	18.0	56	nw.			1		5		nw.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.68	753.9	29.95	760.6	78.1	25.6	35	nw.			4		2		nw.	0	0		M. Stephan, Director.
Montlouis	24.99	634.7	29.83	757.7	72.5	22.5	39	s.	5.6	2.5						0	0		M. Cave, for Dr. Fines.
Montpellier, Normal School	29.95	760.7	30.07	763.8	81.3	27.4	86	nnw.			6		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.10	739.0	29.86	758.5	64.0	17.8	50	ssw.			3		10 kn			0.051	1.3	covered	M. Hasse, Director
Nantes, Observatory	29.98	761.5	30.14	765.6	68.4	20.2	55	sw.			1-3	0	8 k; kn		wnw.	0.004	0.1		M. Larocque, Director.
Perpignan, Observatory	29.94	760.5	30.04	763.1	80.4	26.9	39	ne.	22.4	10.0			1		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.51	546.3			48.2	9.0		w.			2		1		w.	0.016	0.4	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.03	737.4	30.07	763.7	69.8	21	73	s.			1		10			0.16	4.	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.22	640.7			45.5	7.5	91	w.			6		2		w.	0.335	8.5	¼ covered	M. Alluard, Director.
Rochefort, Naval Obs'y	30.13	765.2	30.16	766.0	71.2	21.8	100	wsw.			2		8		w.	0.04	1.	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.89	759.3	30.10	764.6	69.1	20.6	61	w.			2		5		e.	0.059	1.5	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.92	711.7	30.12	765.0	65.1	18.4	73	nw.			1		10		nw.	0.101	4.1	covered	M. Séger, Director.
Rouen, Normal School	29.93	760.3	29.98	761.5	63.7	17.6	59	w.			3		5		e.	0	0	cloudy	M. Brotier.
Saint Maur, Observatory	29.82	757.3	29.98	761.5	65.3	18.5	46	w.			2		8		wnw.	0.004	0.1		M. Renou, Director.
Toulouse, Observatory	29.50	749.3	30.23	767.8	71.2	21.8	72	wnw.			4		8	nw.		0.091	2.3	very cloudy	M. Baillaud, Director.
Tours	29.89	759.2	30.07	763.7	69.4	20.8	43	sw.			1		5		sw.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.51	749.6	30.00	762.1	63.3	17.4	49	w.			3					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.72	754.8	30.01	762.2	63.3	17.4	48	w.			2		7		wnw.	0	0		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.40	721.3	29.82	757.5	58.3	14.6	56	sw.			8		6	sw.		0.311	7.9		Prof. Jnedt.
Bamberg	28.95	735.2	29.79	756.7	63.1	17.3	60	w.			5	0	5 ks		w.	0.394	10.0		Prof. Dr. Hoh.
Berlin	29.34	745.1	29.51	749.5	59.5	15.3	84	sw.			3		10			0	0		Prof. Dr. Arndt.
Breslau	29.13	739.8	29.65	753.1	59.9	15.5	59	w.			4		7			0	0		Royal University Obs'y.
Carlsruhe	29.47	748.5	29.90	759.4	63.0	17.2	57	sw.			5		9	nw.		0.157	4.0	raining	Albert Senz.
Cassel	28.97	735.7	29.68	753.8	58.3	14.6	71	s.			6		8	sw.		0.472	12.0		Dr. H. Möhl.
Frankfort-on-the-Main	29.44	747.7	29.79	756.7	64.4	18	67	wsw.			3		8			0.087	2.2		Physical Society.
Friedrichshafen	28.53	724.7	29.94	760.4	62.6	17.0	60	w.			6		8	w.		0	0		Wilhelm, Chief Tel.
Hamburg	29.34	745.2	29.43	747.5	59.9	15.5	77	wsw.			6		10			0.146	3.7		E. Preller.
Kiel	29.39	740.4	29.40	746.8	57.0	13.9	82	w.			3		9			0.303	7.7		Prof. Dr. G. Karsten
Leipsic, Astron'l Obs'y	29.23	742.5	29.65	753.0	59.0	15.0	65	w			5		10	w.		0.213	5.4	raining	H. Leppig, Asst.
Magdeburg	29.37	745.9	29.55	750.6	59.4	15.2	78	wsw.			7	0	9 ks		w.	0.157	4.0		Dr. Assmann.
Memel	29.39	740.4	29.43	747.5	60.9	19.4	64	ssw.			3		10 sn						Isermann.
Munich	28.09	713.6	29.95	760.8	60.3	15.7	58	nw.			5		7	w.		0.484	12.3	thund'r st'm	Dr. C. Lang.
Neufahrwasser	29.43	747.5	29.45	747.9	61.3	16.3	68	w.			2		9			0.260	6.6		A. Lothes.
Neustadt, Palatinate	29.30	744.2	29.82	757.5	63.0	17.2	55	wsw.			1		9	w.		0.020	0.5		Dicknether.
Stuttgart	28.95	735.4	29.83	757.6	61.7	16.5	56	w.			8		7	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.35	745.6	29.38	746.3	61.9	16.6	74	sw.			5	0	8 k			0	0		Profs. Brandes & Reimer
GREEK.																			
Athens	29.43	747.4	29.79	756.7	87.4	30.8		sw.			1.0	0	2 k			0	0	clear	Schmidt & Wourlisch
INDIAN.																			
Kurrachee	29.66	753.5	29.72	754.8	82.8	28.2	79	wsw.	26.0	11.6			5			0	0	d. clouds	
Deesa	29.19	741.5	29.66	753.4	83.8	28.8	58	wsw.	10.0	4.5			9	w.	wsw.	0	0	d. clouds	
Bombay	29.75	755.6	29.79	756.6	83.0	28.3	77	w.	10.0	4.5			8	nw.		0.02	0.5	d. clouds	
Poona, Yarrowda	27.92	709.2	29.78	756.4	78.2	25.7	62	wsw.	24.0	10.7			7	w.	w.	0	0	d. clouds	
Trichinopoly	29.46	748.3	29.74	755.4	84.0	28.9	68	ne.					4			0.08	2.0	d. clouds	
Bellary	28.24	717.2	29.67	753.6	89.5	31.9	38	w.	17.0	7.6			5			0	0	d. clouds	
Belgaum	27.26	692.4	29.79	756.6	76.5	24.7	69	w.	7.0	3.1			5	e.	nw.	0	0	d. clouds	
Lahore	28.78	731.0	29.49	749.0	98.7	37.1	41	sw.	4.0	1.8			8			0	0	gloomy	
Roorkee	28.75	730.2	29.65	753.1	75.8	24.3	94	e.	1.3	0.6			10			0.13	3.3		
Agra	29.06	738.1	29.62	752.4	78.3	25.7	91	calm	0	0			10		n.	0.70	17.8	showery	
Nagpur	28.60	720.5	29.63	752.5	87.0	30.6	54	wsw.	6.0	2.7			5		sw.	0	0	d. clouds	
Jubbulpore	28.30	718.9	29.66	753.3	76.8	24.9	86	calm	5.5	2.5			10		w.	0.87	22.1	overcast	
Lucknow	29.22	742.1	29.59	751.6	82.7	28.2	81	ene.	2.5	1.1			8	se.		0.82	20.8	d. cloudy	
Allahabad	29.26	743.2	29.57	751.0	80.7	27.1	91	ne.	2.0	0.9			10		nw.	2.31	58.7	overcast	
Patna	29.46	748.3	29.65	753.0	78.5	25.8	88	sw.	6.2	2.8			8	sw.	sw.	0.80	20.3	d. clouds	
Hazaribagh	27.62	701.6	29.62	752.3	77.3	25.2	82	se.	9.0	4.0			10		se.	0.05	1.3	thund'r st'm	
Cuttack	29.56	750.9	29.64	752.9	81.9	27.7	77	calm	0	0			9			0.02	0.5	d. clouds	
Calcutta, Alipore	29.60	751.9	29.62	752.4	86.1	30.1	70	s.	1.0	0.4			7		s.	0	0	d. clouds	
Dhubri	29.52	749.7	29.63	752.7	83.1	28.4	84	calm	0	0			1			0.06	1.5	d. clouds	
Chittagong	29.58	751.4	29.67	753.7	82.2	27.9	84	sw.	3.3	1.5			6			0	0	blue sky	
Sibsagar	29.29	743.9	29.62	752.3	88.3	31.3	75	w.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.20	716.4	29.65	753.1	75.7	24.3	95	e.	3.4	1.5			10		e.	0.42	10.7	overcast	
Zanzibar, Africa	30.02	762.5			80.9	27.2	60	sse.	6.5	2.9			3		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.30	744.2	29.70	754.3	76.1	24.5	64	s.	2.5	1.1			8			0.008	0.2		Prof. Giovanni Cloelig.
Milan	29.24	742.6	29.73	755.2	80.6	27.0	49	sw.	8.7	3.9			1			0	0		Prof. Schiaparelli.
Padua	29.57	751.1	29.68	753.8	78.3	25.7	56	wsw.	15.0	6.7			3	w.		0.051	1.3		Prof. Dott. Lorenzoni.
Moncalieri	28.89	733.8	29.76	756.0	80.6	27.0	47	ssw.	1.8	0.8			2			0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Genoa	29.63	752.7	29.82	757.4	76.3	24.6	60	se.	13.0	5.8			4	s.		0	0		Prof. G. M. Garibaldi
Mondovi	27.87	707.9	29.71	754.5	79.3	26.3	42	e.			4		0			0	0		Prof. D. C. Bruno
Pesaro	29.65	753.0	29.66	754.2	82.4	28.0	44	wsw.	17.4	7.8			2			0.110	2.8		Prof. Luigi Guidi.
Florence	29.56	750.7	29.80	756.9	77.9	25.5	52	sw.			4		5	w.		0	0		Prof. Costantino Pitt'er
Leghorn	29.67	753.7	29.76	755.8	77.0	25.0	58	sw.	4.3	1.9			4	w.		0	0		Prof. P. Monte.
Rome	29.67	753.5	29.84	757.8	86.6	27.0	51	sw.	16.1	7.2			4			0	0		Prof. P. Tachini.
Lecce	29.54	750.3	29.78	756.4	82.2	27.9	42	ssw.	18.6	8.3			0			0	0		Prof. O. de Giorgi
Cosenza	29.02	737.1	29.87	758.7	84.2	29.0	72	ssw.	2.5	1.1			5	sw.		0	0		Prof. D. Conti.
Cagliari	29.73	755.2	29.92	760.0	82.6	28.1	38	nw.			0		4	nw.		0	0		Prof. A. Pacinotti.
Palermo	29.67	753.5	29.91	759.6	82.0	27.8	46	nw.	15.0	6.7			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.83	757.6	29.87	758.7	82.6	28.1	69	nne.	15.4	6.9			0			0	0		Prof. Vincenzo Guilian
Sub-series.																			
Naples, S. R	29.37	746.0	29.87	758.8	79.0	26.1	51	sw.	11.2	5.0			1	nw.		0	0		Prof. T. Brioschi.
Stelvio	22.14	562.4			43.3	6.3	36	ne.			4		3			0.134	3.4	misty	Prof. P. F. Denza.
Valdobbia	22.16	562.9			51.4	10.8	41	ne.			6		1			0	0	clear	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.79	756.6	29.82	757.4	70.1	21.2	88	nw.	0.3	0.1		0	2 s			0	0	fair	K. Ogawa.
Hakodate	29.82	757.4	29.83	757.7	65.0	18.3	87	ene.	1.8	0.8			0			0	0	clear	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.61	752.1	29.78	756.4	77.7	25.4	79	ese.	4.0	1.8			10ks;ck		se.	0.053	1.3	cloudy	M. Fojima.
Nagasaki, I. M. Obs'y	29.57	751.1	29.76	756.0	77.5	25.3	79	se.	5.4	2.4			9 s		s.	0.100	2.5	overcast	
Nemuro	30.02	762.5	30.09	764.3	64.0	17.8	100	s.	1.2	0.5		0	2			0	0	clear	
Niigata	29.73	755.1	29.76	755.9	77.5	25.3	83	ne.	7.8	3.5		0	0			0	0	clear	M. Morita.
Nobiru	29.82	757.5	29.84	757.9	78.1	25.6	84	sse.	7.9	3.6			10 ns					rainy	H. Midzushina.
Osaka	29.72	754.9	29.73	755.1	76.0	24.4	86	ne.	3.6	1.6			10 s;ks		n.	0.006	0.1	cloudy	
Sapporo					68.9	20.5	84	se.	6.6	2.9			0			0	0	clear	
Tokei Obs'y, Yeddo	29.76	756.0	29.83	757.8	77.0	25.0	91	s.	9.2	4.1		0	0			0	0	clear	The Staff.
Wakayama	29.73	755.1	29.78	756.4	74.4	23.6	95	calm	0	0			10			1.033	26.2	raining	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.93	760.2	30.12	765.0	73.0	22.8	66	ese.	15.0	6.7			8 ks;k		se.	0.04	1.0	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.74	602.8	29.96	760.8	59.0	15.0	77	ene.	5.1	2.3		0	0			0	0	clear	Prof. Vicente Fernandez.
Leon.†	24.38	619.2	30.05	763.3	59.4	15.2	87	nnw.			1	2 c	0	w.		0	0	clear	Prof. M. Leal.
Mazatlan	29.75?	755.1?	30.00	762.1	77.0	25.0	91	ese.	11.0	4.9			10 n		sw.	inap.	inap.	threatening.	F. Quijano, C. E.
Mexico, Central Obs'y	23.17	588.4	30.20	767.0	54.3	12.4	88	nw.	0.2	0.1		2 c	3 ks			0.232	5.9	½ cloudy	The Staff.
Morelia	24.26	616.1	30.30	769.5	58.5	14.7	63	se.			2	1	2	s.	s.	0.567	14.4	clear	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	24.02	610.1	30.01	762.2	59.9	15.5	95	calm			0	1 c	0			0	0	clear	M. V. de Leon, M. E
Puebla, Catholic Institute	23.42?	595.5?	30.18	766.6	51.8	11.0	93	calm			0		10		s.	0.968?	22.8?	covered	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	22.60	574.0	30.14	765.6	60.0	15.6	75	nne.	4.9	2.2		9 ck	0	s.		0	0		J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.80	756.9	29.80	756.9	61.5	16.4		w.			5					0.028	0.7		
Groningen	29.48	748.7	29.53	750.1	57.9	14.4		nnw.			5					0.815	20.7		
Helder	29.60	751.8	29.60	751.8	59.4	15.2		w.			6					0.594	15.1		
Hellevoetsluis	29.74	755.3	29.74	755.3	59.7	15.4	68	w.			6					0.004	0.1		
Utrecht	29.66	753.4	29.71	754.6	62.6	17.0	69	w.			5		8			0.031	0.8	very cl'dy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.19	741.4	29.25	743.0	61.9	16.6	73	w.	11	5			3			0	0		
Brono	29.26	743.3	29.30	744.3	74.1	23.4	42	e.	9	4			5			0	0		
Christiania	29.15	740.3	29.28	743.8	65.1	18.4	67	nne.	4	2			9			0.075	1.9	raining	
Glessvær	29.61	752.1	29.63	752.7	72.7	22.6		calm			0		0						
Lodingen	29.47	748.5	29.52	749.7	64.2	17.9	72	nne.			2		8			0	0		
PORTUGUESE.																			
Angra, Azores					73.8	23.2	72	se.	4.3	1.9			4			0	0		Dr. J. A. Sampaio.
Campo Major	29.10	739.1	30.03	762.8	94.1	34.5	25	ene.	4.9	2.2			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.03	762.7	30.11	764.9	76.3	24.6	72	sw.	7.4	3.3			9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.74	755.5	30.09	764.3	91.0	33.1	30	ne.	8.1	3.6			1			0	0		The Staff.
Ponta Delgada, Azores	30.35	771.0	30.43	772.8	75.2	24.0	67	nne.	3.1	1.4			4	w.		0	0		
Saint Paul de Loando	29.80	756.0	30.00	762.1	76.3	21.3	89	nnw.			2		0			0	0		
Serra da Estrella	25.55	649.0	30.09	764.3	73.4	23.0	37	ese.	9.4	4.2			0			0	0		
RUSSIAN.																			
Akmolinski	28.87	733.2	29.93	760.3	55.9	13.3	80	ene.	22	10		0	7 k			0	0	light clouds	Major K. Lasarew.
Archangel	29.68	753.8	29.70	754.3	68.2	20.1	83	ese.	4	2			10			0	0		Capt. Sselliwerstow.
Astrakhan	29.90	759.5	29.82	757.4	77.5	25.3	70	e.	2	1			10 n			0.165	4.2		Capt. Wisganow.
Barnaul	29.54	750.2	30.04	762.9	52.0	11.1	46	n.	9	4			3			0	0		Meteorological Obs'y.
Dorpat	29.20	743.3	29.50	749.2	67.3	19.6	61	ssw.	7	3			10ks;n			0	0		Observatory.
Ekaterinburg	29.02	737.1	29.96	760.9	66.0	18.9	60	sse.	9	4			0			0	0		Meteorological Obs'y.
Irkutsk																			
Kasan	29.37	746.0	29.62	752.4	80.6	27.0	46	sse.	16	7			9			0.008	0.2		Observatory.
Kertch	29.75	755.6	29.77	756.1	81.0	27.2	61	se.	4	2		0	1 k			0	0		Lagorio & Sastyrex.
Kieff	28.93	734.9	29.54	750.2	71.4	21.9	75	sse.	11	5		0	7 k,ks,n					raining	Observatory.
Lugan	29.55	750.5	29.74	755.4	82.9	28.3	43	wsw.	9	4			7			0	0		Meteorological Obs'y.
Moscow	29.08	738.6	29.53	750.1	63.9	17.7	80	s.	13	6		0	8 ks					raining	Meteorological Obs'y.
Nikolaiev	29.69	754.0	29.76	755.8	85.1	29.5	39	s.	13	6		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.76	755.8	29.90	759.4	73.2	22.9	71	calm	0	0		0	0			0.050	1.5		Physical Observatory.
St. Petersburg	29.45	747.9	29.46	748.3	63.5	17.5	97	nnw.	4	2			10 n			0.787	20.0		Central Physical Obs'y.
Semipalatinsk	29.35	745.4	30.00	762.0	56.8	13.8	65	nne.	27	12			0			0	0		Major Lasarew
Tashkend, Laboratory	28.28	718.4	29.76	755.8	84.2	29.0	44	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.43	722.2	29.75	755.6	95.5	35.3	31	s.	13	6		0	4 k			0	0		Physical Observatory.
Vladivostock	29.75	755.7	29.82	757.4	69.1	20.6	83	n.	7	3			10 k						
Warsaw	29.11	739.5	29.53	750.0	58.5	14.7	87	sw.	13	6			10 n					raining	Astronomical Obs'y.
Wilna	29.11	739.3	29.50	749.4	70.5	21.4	66	s.	7	3			0			0.106	2.7		Berg, Assistant.
Yeniseisk	29.62	752.3	29.91	759.6	46.0	7.8	67	sw.	7	3			5			0.059	1.5		M. O. Marks.
SCOTTISH.																			
Monach Lt.			29.55	750.6	59	15.0	94	nw.			6		10			0.2	5.	gloomy	J. Youngclause.
North Unst			29.27	743.4				nw.			4	3	7	w.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.92	760.0	30.02	762.5	81.3	27.4	71	e.	1.3	0.6		3 c;cs	0			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.20	767.0	30.26	768.5	71.6	22.0	80	nw.	3.8	1.7			10			0.302	9.2	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.28	693.0	30.06	763.5	75.6	24.2	62	ne.	6.9	3.1			0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.90	710.2	30.08	763.9	84.6	29.2	46	n.	2.9	1.3			0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.92	759.9	30.06	763.5	88.2	31.2	59	ese.	3.4	1.5			0			0	0	clear	Olayo Diaz, Director
Oviedo	29.48	748.7	30.35	770.8	68.0	20.0	87	n.	3.5	1.6			10 n			0	0	covered	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.29	744.0	30.16	766.0	75.7	24.3	63	calm	0	0			9			0	0	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.98	761.5	30.04	763.1	78.7	25.9	85	ese.	2.9	1.3		4 c;cs	k	nne.	e.	0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.2	29.91	759.6	77.9	25.5	91	ene.	0	0			9 n		s.	0.976	24.8	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.95	760.6	30.04	763.0	92.8	33.8	29	e.	14.1	6.3		0	0			0	0		Capt. C. Pujazon R. N.
San Juan de Porto Rico, W. I	29.87	758.7	29.96	761.0	80.2	26.8	89	calm	0	0		8 s	2 k	n.	se.	0.650	16.5	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.77	756.1	29.90	759.4	76.0	24.4	86	se.	2.4	1.1		3 cs	7 kn		sw.	0.12	3.0	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.50	749.2	29.54	750.2	72.7	22.6	62	e.			4		8			0	0		
Umea	29.34	745.3	29.39	746.6	64.8	18.2	88	e.			2		10			0.169	4.3		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
SWEDISH—Continued.																			
Hernosand	29.27	743.4	29.32	744.7	69.8	21.0	74	sse.			2		10			0.106	2.7		
Stockholm	29.16	740.7	29.34	745.2	70.0	21.1	54	sse.			2		7			0.004	0.1		
Wisby	29.29	743.9	29.35	745.4	67.3	19.6	70	sw.			4		7			0.224	5.7		
Sub-series.																			
Upsala	29.24	742.8	29.33	745.0	63.7	17.6	82	sse.	7.4	3.3			9		se.	0.106	2.7	raining	S. G. Fineman.
SWISS.																			
Geneva	28.65	727.6	30.03	762.8	68.0	20.0	49	w.			3		5			0.051	1.3	cloudy	The Observatory
TURKISH.																			
Constantinople			29.79	756.6	81.0	27.2	50	ne.	9	4.0			1		ne.	0	0		The Observatory.
Valona			29.95	760.6	85.1	29.5		s.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.79	756.7	86.0	30.0	52	w.			2	0	4 s		s.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.11	764.8	30.19	766.8	64.5	18.1	74	s.	1	0.4			10 s			0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.42	747.3	30.06	763.5	66	18.9	93	s.	10	4.5		2 cs	3 ks	w.	w.	0.84	21.3	fair	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.12	638.0	29.84	757.9	68	20.0	97	e.	2	0.9			10 s			1.22	31.0	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.19	690.6	29.94	760.5	56	13.3	60	sw.	11	4.9		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.09	738.9	30.24	768.1	68.0	20.0	73	se.	5	2.2		9 c	0			0	0	cloudy	H. Hall.
Atlantic City, New Jersey	30.18	766.6	30.19	766.8	71	21.7	82	s.	5	2.2			10 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	30.08	764.0	30.28	769.1	68	20.0	78	calm	0	0		3 c	0	nw.		0	0	clear	John Healy.
Baltimore, Maryland	30.15	765.8	30.20	767.1	68	20.0	70	s.	5	2.2			10 s		nw.	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.16	766.1	30.18	766.6	71.0	21.7	76	s.	11	4.9			10 s			0	0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.44	722.4	29.98	761.5	63	17.2	93	calm	0	0		3 k	3 s			0.03	0.8	fair	A. Pritchard.
Benton, Fort, Montana	27.25	692.1	30.04	763.0	53	11.7	69	w.	3	1.3		0	0			0	0	clear	S. Wheaton.
Behring Island, Behring Sea	30.06	763.5	30.08	764.0	55.2	12.9		sw.	2	0.9			10 s			0	0	foggy	Dr. L. Steineger.
Bismarck, Dakota	28.22	716.8	29.97	761.2	60	15.6	93	nw.	4	1.8		0	hz.			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.18	766.6	30.22	767.6	67	19.4	73	sw.	3	1.3		4 cs	0	w.		0	0	fair	J. T. Elker.
Boise City, Idaho	27.24	691.9	29.99	761.7	55	12.8	57	w.	2	0.9		0	sk.		calm	0	0	clear	B. E. Light.
Boston, Massachusetts	30.06	763.5	30.21	767.3	62.0	16.7	72	w.	2	0.9		4 cs	hz.			0	0	fair	O. B. Cole.
Brownsville, Texas	29.98	761.5	30.02	762.5	73.0	22.8	97	calm	0	0		0	4 ks;s			0.08	2.0	fair	M. McCarty.
Buffalo, New York	29.40	746.7	30.12	765.0	64	17.8	90	se.	3	1.3			10n;fog			0.34	8.6	light rain	Clarence Weaver.
Buford, Fort, Dakota	28.05	712.5	29.99	761.7	55	12.8	74	s.	1	0.4		10 cs	0	calm		0	0	cloudy	A. H. Bell.
Burlington, Vermont	29.90	759.4	30.19	766.8	60.5	15.8	77	s.	1	0.4		1 cs	0	n.		0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.80	756.9	30.19	766.8	73.8	23.2	86	s.	4	1.8		1 ck	0			0	0	clear	W. H. Ray.
Campo, California	27.48	698.0	29.98	761.5	51.7	10.9	69	w.	3	1.3		0	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	30.21	767.3	30.23	767.8	67	19.4	63	sw.	7	3.1		3 cs	0			0	0	clear	A. K. Alderson.
Cape May, New Jersey	30.19	766.8	30.22	767.6	70.0	21.1	71	s.	9	4.0			10 s		s.	0	0	cloudy	W. E. Smith.
Cape Mendocino	29.50	749 3			56	13.3	93	n.	22	9.8			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	30.14	765.5	30.16	766.1	75	23.9	90	ne.	8	3.6		0	2 k			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.34	745.2	30.13	765.3	68.4	20.2	77	s.	7	3.1		0	0			0	0	clear	L. A. Welsh.
Charleston, S. Carolina	30.17	766.3	30.22	767.6	71	21.7	84	ne.	6	2.7		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.38	746.2	30.21	767.3	70.0	21.1	76	sw.	3	1.3		0	hz.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.44	747.8	30.25	768 3	66.5	19.2	95	calm	0	0			fg.			0	0	dense fog	B. L. Goulding.
Cheyenne, Wyoming	24.26	616.2	29.96	761.0	50.8	10.4	66	nw.	6	2.7		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.41	747.0	30.10	764.5	71.8	22.1	69	sw.	6	2.7		0	0			0	0	clear	J. Mitchell.
Chincoteague, Virginia	30.20	767.1	30.22	767.6	67.5	19.7	78	sw.	4	1.8		10 cs	0			0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.55	750.6	30.19	766.8	67	19.4	87	se.	3	1.3		3 ck	fg.	e.		0	0	clear	J. F. Harrold.
Cleveland, Ohio	29.45	748.0	30.17	766.3	69.7	20.9	77	sw.	4	1.8		5 c;ck	1 k	w.		0	0	fair	J. B. Newlin.
Coleman City, Texas	28.26	717.8	30.00	762.0	70	21.1	84	se.	1	0.4		8 cs	0	nw.		0.04	1.0	cloudy	L. Dorman.
Columbus, Ohio	29.35	745.5	30.18	766.6	63	17.2	84	s.	1	0.4		0	fg.			0	0	clear	D. Cuthbertson.
Concho, Texas	28.16	715.3	30.02	762.5	66	18.9	90	calm	0	0		0	3 s		e.	0.35	8.9	clear	W. W. McConihe.
Custer, Fort, Montana	26.91	683.5	29.97	761.2	57	13.9	60	s.	8	3.6		0	0			0	0	clear	W. B. Lamar.
Davenport, Iowa	29.44	747.8	30.06	763.5	73	22.8	82	sw.	6	2.7		0	8 k		sw.	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.22	640.6	29.87	758.7	66	18.9	70	calm	0	0		0	0			0.27	6.9	clear	J. Williams.
Dayton, Washington T'y	28 32	719.3	30.03	762.7	52.6	11.4	75	calm	0	0		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.55	649.0	29.98	761.5	52	11.1	86	n.	4	1.8		0	0			1.88	47.8	clear	G. W. Scott.
Decatur, Texas					70	21.1	66	se.	8	3.6		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del	30.18	766.6	30.20	767.1	67	19.4	84	sw.	9	4.0		4 ck	5 s	w.	sw.	0	0	cloudy	T. S. Townsend.
Denison, Texas																			J. McGlone.
Denver, Colorado	24.93	633 2	29.95	760.7	63.0	17.2	56	n.	2	0.9		0	1 s			0.04	1.0	clear	F. M. Neal.
Des Moines, Iowa	29.17	740.9	30.05	763.3	69	20.6	84	s.	3	1.3		3 c	4 s	w.	s.	0	0	fair	F. W. Conrad.
Detroit, Michigan	29.44	747.8	30.12	765.0	71.8	22.1	82	w.	2	0.9		2 cs	hz.			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.42	696.5	29.90	759.4	68	20.0	81	s.	11	4.9		0	5 ks		n.	0	0	fair	W. M. Mattingly.
Dubuque, Iowa	29.36	745.7	30.05	763 3	72.2	22.3	76	s.	2	0.9		3 c	3 ks;hz	nw.	se.	0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.25	742.9	29.97	761.2	61	16.1	100	ne.	3	1.3			fg			0.49	12.4	dense fog	N. B. Conger.
Eagle Pass, Texas	29.27	743.4	30.06	763.5	71.1	21.7	84	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.40	645.1	29.95	760.7	50	10.0	50	calm	0	0		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.08	764.0	30.15	765.8	57.0	13.9	80	s.	3	1.3		9 k	0	n.		0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.26	692.4	29.90	759.4	64	17.8	78	se.	6	2.7		6 k	0	se.		inap.	inap.	fair	W. J. Cundall.
El Paso, Texas	26.31	668.3	29.91	759.7	70	21.1	76	nw.	6	2.7		3 ck	0	nw.		inap.	inap.	clear	J. F. Marshall.
Erie, Pennsylvania	29.41	747.0	30.12	765.0	69	20.6	90	calm	0	0			10ks;hz		ne.	0.34	8.6	cloudy	Peter Wood.
Escanaba, Michigan	29.37	746.0	30.01	762.2	65.5	18.6	95	calm	0	0		0	9 ks;s		sw.	inap.	inap.	cloudy	George Heathcote.
Fredericksburg, Texas	28.33	719.6	30.04	763.0	72	22.2	82	calm	0	0		1 cs	0			0	0	clear	Frank Halwegler.
Galveston, Texas	30.03	762.7	30.08	764.0	79	26.1	82	nw.	12	5.4		0	8 ks		se.	0	0	cloudy	E. O'C. Machernev.
Grand Haven, Michigan	29.45	748.0	30.10	764.5	71.5	21.9	84	sw.	7	3.1		0	3 s			0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.32	643.1	29.89	759.2	61.9	16.6	93	calm	0	0			10 s			0.64	16.3	cloudy	Robert C. Lord.
Hatteras, North Carolina	30.21	767.3	30.23	767.8	72	22.2	71	ne.	8	3.6		4 ck	hz.	ne.		0	0	fair	R. M. Crawford.
Helena, Montana	25.88	657.3	29.97	761.2	65	18.3	36	w.	4	1.8		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.09	738.9	30.09	764.3	72.0	22.2	82	s.	4	1.8		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.59	726.2	29.93	760.2	66.9	19.4	93	s.	1	0.4			10 s			0.60	15.2	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.39	746.5	30.16	766.1	68.5	20.3	77	calm	0	0		0	hz.			0	0	dense haze.	O. Schutze
Indianola, Texas	30.03	762.7	30.06	763.5	73.6	23.1	90	calm	0	0		8 k	0	sw.		0.64	16.3	cloudy	I. A. Reed.
Jacksboro, Texas	28.90	734.0	30.02	762.5	68	20.0	84	se.	5	2.2		4 k	0	n.		0	0	fair	J. P. Sherry.
Jacksonville, Florida	30.13	765.3	30.17	766.3	74	23.3	91	ne.	8	3.6			10 n			0.04	1.0	light rain	J. W. Smith.
Keogh, Fort, Montana	27.54	699.5	29.97	761.2	62	16.7	72	calm	0	0		5 c	0			inap.	inap.	fair	A. Schneider.
Keokuk, Iowa	29.42	747 3	30.05	763.3	75.5	24.2	81	s.	1	0.4		1 k	0	w.		0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	84.0	28.9	74	ne	8	3.6		0	1 k			0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.23	767.8	30.25	768.3	70	21.1	66	nw.	4	1.8		2 c	sk.			0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.24	742.7	30.25	768.3	67	19.4	97	calm	0	0		4 k	fg.			0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.28	743.7	30.02	762.5	73	22.8	71	s.	5	2.2			10 s			0	0	cloudy	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.22	742.2	30.08	764.0	71	21.7	82	s.	3	1.3		2 c	hz.	w.		0	0	clear	A. W. Browne.
Lewiston, Idaho	29 22	742.2	30.03	762.7	62.5	16.9	49	calm	0	0		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.81	757.2	30.12	765.0	73	22.8	97	e.	2	0.9			hz;fg			inap.	inap.	dense haze.	W. U. Simons.
Los Angeles, California	29.67	753.6	30.06	763.5	64	17.8	90	nw.	2	0.9		0	0			0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.61	752.1	30.16	766.1	70	21.1	84	w.	3	1.3		0	sk.			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.52	749.8	30.19	766.8	71	21.7	71	s.	1	0.4		3 c	0			0	0	clear	Lewis Duane.
Mackinaw City, Michigan	29.43	747.5	30.07	763 8	67.0	19.4	93	s.	3	1.3		6 ck	0	w.		0.21	5.3	fair	F. R. Day.
Macon, Fort, North Carolina	30.23	767.8	30.24	768.1	70	21.1	78	nw.	7	3.1		7 c	0			0	0	fair	F. P. Chaffee.
Madison, Wisconsin	29.08	738.6	30.06	763.5	70	21.1	78	sw.	3	1.3		7 cs	0	w.		0	0	fair	C. A. Shaw.
Maginnis, Fort, Montana	25.68	652.3			62	16.7	42	ne.	4	1.8		0	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.84	707.1	30.05	763.3	68	20.0	84	e.	5	2.2			10 s			0.03	0.8	cloudy	J. E. Thatcher.
Marquette, Michigan	29 30	744.2	30.00	762.0	68	20.0	90	w.	4	1.8			10 s		w.	0.08	2.0	cloudy	J. Gilligan.
Memphis, Tennessee	29.81	757.2	30.14	765.5	73	22.8	97	se.	2	0.9			10 s		se.	0.38	9.7	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.36	745.7	30.09	764.3	69	20.6	78	sw.	9	4.0		6 c	sk.	w.		0	0	fair	W. Line.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.82	681.2	30.04	763.0	49	9.4	80	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.10	764.5	30.14	765.5	76	24.4	90	ne.	3	1.3	.....	1 c	7 ks	.....	s.	0.80	20.3	cloudy	C. A. Read.
Montgomery, Alabama	29.96	761.0	30.20	767.1	73.4	23.0	92	se.	4	1.8	.....	.....	10 s	.....	.....	0.27	6.9	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.97	735.8	29.94	760.5	64	17.8	93	calm	0	0	.....	.....	fg.	.....	.....	0.19	4.8	dense fog	H. Bessant.
Morgantown, W. Virginia	29.21	741.9	30.21	767.3	63.0	17.2	93	calm	0	0	.....	3 cs	0	.....	.....	0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.04	610.6	30.12	765.0	42.0	5.6	76	se.	8	3.6	.....	1 k	0	se.	.....	0	0	clear	J. G. Livesley.
Nashville, Tennessee	29.63	752.6	30.19	766.8	69.5	20.8	90	s.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	L. N. Jesunofsky.
New Haven, Connecticut	30.09	764.3	30.20	767.1	62	16.7	84	s.	3	1.3	.....	2ck;cs	7s;sk	w.	w.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.16	766.1	30.21	767.3	65	18.3	68	s.	2	0.9	.....	7 k	0	.....	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.04	763.0	30.09	764.3	78.0	25.6	90	calm	0	0	.....	0	sk.	.....	.....	1.33	33.8	clear	L. Dunne.
Newport, Rhode Island	30.18	766.6	30.23	767.8	65.8	18.8	76	sw.	1	0.4	.....	5 c	1 s	w.	.....	0	0	fair	W. McGillivray.
New York, New York	30.02	762.5	30.19	766.8	66	18.9	87	w.	3	1.3	.....	.....	10 s	.....	w.	inap.	inap.	cloudy	J. B. Merrill.
Norfolk, Virginia	30.21	767.3	30.24	768.1	71	21.7	62	sw.	4	1.8	.....	3 cs	hz.	.....	.....	0	0	clear	Wm. Davis.
North Platte, Nebraska	27.14	689.3	29.94	760.5	63.6	17.6	88	n.	6	2.7	.....	0	7 s	.....	sw.	inap.	inap.	fair	E. F. Brady.
Olympia, Washington T'y.	30.01	762.2	30.05	763.3	65.0	18.3	78	s.	4	1.8	.....	.....	10 s	.....	s.	inap.	inap.	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.88	758.9	29.89	759.2	32.5	0.3	98	ne.	14	6.3	.....	.....	10 s	.....	ne.	0	0	cloudy	P. H. Ray.
Omaha, Nebraska	28.88	733.5	30.02	762.5	68.7	20.4	79	s.	8	3.6	.....	6 cs	2 s	sw.	s.	0	0	cloudy	A. Pollak.
Oswego, New York	29.83	757.7	30.15	765.8	66.0	18.9	73	se.	4	1.8	.....	.....	10 s	.....	n.	0.02	0.5	cloudy	S. W. Beall.
Palestine, Texas	29.56	750.8	30.10	764.5	68.0	20.0	84	ne.	4	1.8	.....	3 ck	0	sw.	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	30.11	764.8	30.14	765.5	74.8	23.8	97	ne.	6	2.7	.....	.....	10 s	.....	e.	1.88	47.8	cloudy	M. McGauran.
Philadelphia, Pa.	30.10	764.5	30.20	767.1	68	20.0	78	s.	3	1.3	.....	.....	10n;fg	.....	.....	inap.	inap.	light rain	T. F. Townsend.
Pike's Peak, Colorado	18.07	459.0	29.86	758.4	31	— 0.6	100	nw.	20	8.9	.....	.....	fg.	.....	.....	0.06	1.5	dense fog	L. M. Dey.
Pioche, Nevada	24.77	613.9	29.87	758.7	60.8	16.0	65	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.36	745.7	30.16	766.1	67.0	19.4	90	sw.	1	0.4	.....	8 ck	fg.	w.	.....	inap.	inap.	cloudy	J. B. Turton.
Poplar River, Montana	27.98	710.7	.....	.....	.....	.....	.....	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.08	764.0	30.09	764.3	79.4	26.3	87	se.	1	0.4	.....	0	2 k	.....	se.	0	0	clear	M. Hermann.
Port Huron, Michigan	29.45	748.0	30.11	764.8	70.0	21.1	87	e	1	0.4	.....	2 cs	6 ks	.....	w.	0	0	cloudy	W. O. Bailey.
Portland, Maine	30.13	765.3	30.18	766.6	60.0	15.6	75	w.	3	1.3	.....	0	hz.	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.01	762.2	30.08	764.0	62.0	16.7	84	w.	4	1.8	.....	.....	10 s	.....	w.	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	72	22.2	66	ne.	13	5.8	.....	1 cs	2 ks	.....	.....	0	0	clear	F. S. Coburn.
Prescott, Arizona	24.89	632.2	29.87	758.7	60	15.6	90	s.	2	0.9	.....	.....	10 s	.....	s.	0.35	8.9	cloudy	J. McN. Wright.
Provincetown, Mass.	30.18	766.6	30.21	767.3	66	18.9	73	sw.	2	0.9	.....	3 k	2 s	sw.	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.06	763.5	30.07	763.8	78.5	25.8	88	ne.	12	5.4	.....	1 c	5 ks	calm	ne.	0	0	fair	W. J. Evans.
Red Bluff, California	.....	.....	.....	.....	.....	.....	.....	n.	.....	.....	1	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.85	758.2	30.09	764.3	73	22.8	97	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Rochester, New York	29.49	749.0	30.14	765.5	61	16.1	93	se.	3	1.3	.....	.....	10n;fg	.....	.....	0.03	0.8	light rain	E. W. McGann.
Roseburg, Oregon	29.58	751.3	30.12	765.0	54.2	12.3	77	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.88	758.9	29.96	761.0	61.6	16.4	73	s.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.55	750.6	30.13	765.3	71.0	21.7	100	s.	6	2.7	.....	0	8 s	.....	sw.	0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.11	739.4	29.95	760.7	67.0	19.4	93	s.	4	1.8	.....	.....	10 s	.....	s.	0.08	2.0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.11	739.4	29.96	761.0	59	15.0	93	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.73	653.5	29.92	760.0	65	18.3	50	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.38	746.2	30.07	763.8	68.0	20.0	90	e.	1	0.4	.....	0	4 s	.....	.....	0	0	fair	T. J. Kenan.
San Diego, California	29.96	761.0	30.03	762.7	66.6	19.2	82	nw.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.48	748.8	30.14	765.5	71	21.7	76	w.	9	4.0	.....	4 c	0	w.	.....	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.16	766.1	30.19	766.8	71.0	21.7	71	sw.	13	5.8	.....	.....	10 n	.....	.....	0.02	0.5	light rain	B. A. Blandon.
San Francisco, California	29.97	761.2	30.04	763.0	53	11.7	100	w.	7	3.1	.....	.....	fg.	.....	.....	0	0	dense fog	N. Gorom.
Santa Fé, New Mexico	23.36	593.3	29.85	758.2	59	15.0	90	n.	1	0.4	.....	.....	10 n	.....	sw.	0.10	2.5	light rain	H. U. Jones.
Savannah, Georgia	30.13	765.3	30.22	767.6	73	22.8	82	ne.	4	1.8	.....	6 c	0	.....	.....	0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.43	671.3	29.96	761.0	48	8.9	66	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.84	757.9	30.08	764.0	73	22.8	97	se.	2	0.9	.....	4 ck	0	.....	.....	inap.	inap.	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.82	732.0	30.00	762.0	67.5	19.7	55	e.	5	2.2	.....	9 k	0	nw.	.....	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.37	619.0	29.83	757.7	56	13.3	83	calm	0	0	.....	0	6 ks	.....	e.	0	0	fair	J. B. Wallace.
Sitka, Alaska	29.66	753.4	29.77	754.9	51	10.6	80	e.	4	1.8	.....	5 k	2 s	e.	calm	0.08	2.0	fair	J. J. McLean.
Smith, Fort, Arkansas	29.62	752.3	30.08	764.0	70.8	21.6	94	e.	4	1.8	.....	5 cs	0	e.	.....	0.22	5.6	fair	J. B. Campbell.
Smithville, North Carolina	30.19	766.8	30.23	767.8	66	18.9	78	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.03	711.9	30.03	762.7	51	10.6	74	calm	0	0	.....	0	sk.	.....	.....	0	0	dense smoke	D. Moore.
Springfield, Illinois	29.46	748.3	30.12	765.0	71.1	21.7	85	s.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	T. B. Jennings.
Springfield, Massachusetts	30.08	764.0	30.22	767.6	61.7	16.5	84	s.	1	0.4	.....	10 cs	fg.	sw.	.....	0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.71	729.2	30.10	764.5	69	20.6	90	se.	6	2.7	.....	2 cs	0	se.	.....	0	0	clear	J. B. Marbury.
Starkville, Miss.	29.70	754.4	30.17	766.3	74	23.3	90	e.	4	1.8	.....	.....	10 s	.....	.....	0.26	6.6	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.19	716.0	29.97	761.2	57	13.9	93	ne.	3	1.3	.....	0	5 s	.....	.....	0	0	fair	W. Burrows.
Stockton, Fort, Texas	27.04	686.8	29.98	761.5	65.5	18.6	73	se.	12	5.4	.....	0	0 s	.....	se.	0	0	fair	J. O'Dowd.
Thomas Camp	27.26	692.4	29.88	758.9	70	21.1	97	calm	0	0	.....	.....	10 ks	.....	nw.	0.98	24.9	cloudy	
Thatcher's Island, Mass.	30.14	765.5	30.19	766.8	63.5	17.5	78	sw.	5	2.2	.....	0	hz.	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.45	748.0	30.12	765.0	72	22.2	82	w.	4	1.8	.....	1 c	sk.	.....	.....	0	0	clear	A. Buell.
Tucson, Arizona	27.60	701.0	29.94	760.5	70	21.1	97	se.	3	1.3	.....	.....	10 s	.....	.....	0.26	6.6	threatening	J. L. Whiteside.
Umatilla, Oregon	29.68	753.9	30.04	763.0	62	16.7	56	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.10	739.1	30.04	763.0	68	20.0	90	se.	3	1.3	.....	0	0	.....	.....	0	0	clear	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	70.6	21.4	76	se.	.....	.....	1	.....	10 s	.....	s.	0.43	10.9	cloudy	D. Brooks.
Vicksburg, Mississippi	29.87	758.7	30.11	764.8	73	22.8	97	e.	8	3.6	.....	1 ck	0	.....	.....	0	0	clear	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.67	626.6	30.01	762.2	48.8	9.3	59	w.	3	1.3	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.09	764.3	30.20	767.1	68.1	20.1	75	sw.	4	1.8	.....	6 k	3 s	nw.	sw.	0	0	cloudy	F. M. M. Beall.
West Las Animas, Colorado	26.10	662.9	29.85	758.2	66.4	19.1	87	nw.	3	1.3	.....	.....	10 s	.....	.....	1.00	25.4	cloudy	F. H. Brandenburg.
Williamsport, Pa.	29.57	751.1	30.15	765.8	63.5	17.5	85	ne.	2	0.9	.....	.....	10 n	.....	w.	0.18	4.6	light rain	B. F. Hough.
Wilmington, N. Carolina	30.20	767.1	30.25	768.3	69	20.6	78	e.	4	1.8	.....	3 c	0	.....	.....	0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.70	658.8	29.93	760.2	49	9.4	31	sw.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.71	729.2	29.98	761.5	68	20.0	78	calm	0	0	.....	10 ck	0	.....	.....	0.16	4.1	cloudy	J. H. Attfield.
Yuma, Arizona	29.74	755.4	29.88	758.9	77.0	25.0	64	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.08	560.8	.....	.....	49.0	9.4	75	calm	0	0	.....	0	1 s	.....	.....	0	0	clear	Joaquin Gomez.
Bridgetown, Barbadoes, W. I.	30.04	763.0	30.05	763.3	82	27.8	78	e.	.....	.....	.....	5 k	4 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.05	763.5	30.09	764.3	77	25.0	90	s.	2	0.9	.....	0	8 ks	.....	s.	0.70	17.8	cloudy	J. I. Plume.
Havana, Cuba	30.00	762.0	30.06	763.5	80	26.7	82	se.	2.4	1.1	.....	3 cs	0	n.	.....	0	0	fair	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	29.97	761.2	29.98	761.5	77.0	25.0	84	calm	0	0	.....	6 cs	0	e	.....	0.20	5.1	fair	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	76	24.4	.....	calm	.....	.....	0	7 cs	0	se.	.....	2.53	64.3	.....	S. M. Pike.
Navassa, W. I.	29.83	757.7	29.91	759.7	82	27.8	83	ne.	6	2.7	.....	2 cs	4 k	ne.	n.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	81	27.2	83	e.	.....	.....	2	4 ck	0	.....	.....	1.090	27.7	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.40	746.7	29.96	761.0	75	23.9	84	e.	.....	.....	1	7 c	0	e.	.....	0.93	23.6	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	77	25.0	98	ne.	.....	.....	2	0	0	.....	.....	0.12	3.0	.....	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.56	750.8	29.62	752.3	49	9.4	86	nw.	.....	.....	3	5 cs	0	.....	.....	0	0	fair	W. J. Fisher.
St. Thomas, W. I.	29.87	758.7	30.00	762.0	80	26.7	88	sw.	.....	.....	.....	1 c	4 k	.....	sw.	0.76	19.3	fair	Aug. Walloe.
York Factory, B. A.	30.06	763.5	30.12	765.0	46.0	7.8	92	ne.	14	6.3	.....	1 c	0	e.	.....	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, N. 38° 12′ W. 30° 50′	30.47	773.9	78.2	25.7	66	calm			0		3							d. clouds.
H. M. S. Alexandra, Port Said, Egypt	29.87	758.7	80	26.7	74	wnw.			1–2		1							blue sky.
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.28	769.1	68.5	20.3	84	nne.			1		1							blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.79	756.7	76	24.4		n.			3		3	nnw.						d. clouds.
H. M. S. Arab, N. 25° 22′ E. 55° 23′	29.59	751.6	91	32.8	73	n.			2		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.21	767.3	60.5	15.8		ese.			1–2		0							blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	30.02	762.5	58	14.4	69	wsw.			1–2		4							d. clouds.
H. M. S. Diamond, S 15° 13′, E. 159° 56′	29.93	760.2	76	24.4	90	se.			4–5		5					1	se.	d. clouds.
H. M. S. Dido, N. 17° 55′, W. 77° 00′	30.01	762.2	81	27.2		nw.			1		0							blue sky.
H. M. Dock-Yard, Bermuda, W. I.	29.97	761.2	77	25.0	67	nne.			3–4		4	nne.						d. clouds.
H. M. S. Eclipse, N. 30° 10′, E. 32° 30′	29.66	753.4	91.5	33.1		nnw.			2		2							d. clouds.
H. M. S. Fantome, N. 15° 42′, W. 64° 55′	29.98	761.5	83	28.3		ese.			2		5	ese.				1	ese.	d. clouds.
H. M. S. Flying Fish, N. 36° 58′ E. 125° 33′	29.62	752.3	77.5	25.3	97	nne.			3		3					1	n.	d. clouds.
H. M. S. Gannet, S. 2° 55′, W. 80° 10′	29.98	761.5	69.5	20.8	90	nw.			2		10	ne.						drizzling.
H. M. S. Griffon, N. 47° 15′ W. 54° 00′	30.04	763.0	56.5	13.6	87	ese.			4		10							squally.
H. M. S. Iron Duke, N. 40° 40′ E. 131° 08′	29.85	758.2	74	23.3	100	se.			1		3							d. clouds.
H. M. S. Lark, S. 10° 26′, E. 161° 50′	29.95	760.7	76.3	24.6	83	se.			1		10					1	se.	raining.
H. M. S. Liffey, Coquimbo, Chili	30.00	762.0	56	13.3		n.			2							1	n.	d. clouds.
H. M. S. Magpie, N. 35° 06′, E. 129° 03′	29.54	759.3	77.7	25.4	90	ssw.			4–6		10					1	ssw.	misty.
H. M. S. Minotaur, Alexandria, Egypt	29.85	758.2	79.5	26.4	70	nw.			2		3							d. clouds.
H. M. S. Northampton, Halifax, Nova Scotia	30.08	764.0	57.5	14.2	100	nnw.			1		10	nne.						d. clouds.
H. M. S. Orontes, N. 33° 45′, E. 22° 10′	29.93	760.2	79.5	26.4	91	nw.			3		4	wnw.				3	wnw.	d. clouds.
H. M. S. Pegasus, N. 5° 16′, E. 115° 15′	29.82	757.4	83	28.3	83	calm			0		10							d. clouds.
H. M. S. Sappho, N. 20° 45′, W. 156° 00′	30.05	763.3	76	24.4	100	ne.			2		7							raining.
H. M. S. Swiftsure, Coquimbo, Chili	30.15	765.8	56	13.3	80	nw.			1		8	n.						d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.05	763.3	57	13.9	93	n.			5		10							raining.
H. M. S. Tenedos, N. 48° 23′ W. 53° 22′	30.03	762.7	55.5	13.1	96	e.			1		10							drizzling.
H. M. S. Triumph, S. 26° 57′ W. 44° 48′	30.31	769.9	70	21.1	84	nne.			3–4		2	nne.				3	nne.	d. clouds.
H. M. S. Woodlark, Jask, Persia	29.63	752.6	85.5	29.7	79	sse.			2–3		0							misty.
Portuguese Naval.																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.09	764.2	80.6	27.0	88				1		8			¼ h'r	¼ h'r	1	se.	showery.
Tamega, Macao, China	29.76	755.9	79.7	26.5	86	sw.			4		10		sw.	12 h'r	12 h'r			raining.
United States Naval.																		
Navy Yard, Pensacola, Fla.	30.02	762.5	78	25.6	91	ne.	9	4.0			10		se.	2.75	69.8			cloudy.
Navy Yard, Portsmouth, N. H.	30.19	766.8	59	15.0	76	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.74	755.4	78	25.6	88	sw.			2		1		sw.	0	0			clear.
Adams, Mare Island, Cal.			58	14.4	88	sw.			4		0			0	0	sm'h		clear.
Alaska, N. 1° 02′, W. 131° 29′	29.87	758.7	75	23.9	?	se.			2		5		se.	0	0	sm'h		fair.
Alliance, Portsmouth, N. H.	30.27	768.8	59	15.0	94	calm			0		2			0	0	sm'h		clear.
Ashuelot, Yokohama, Japan*	29.73	755.1	79	26.1	91	s.			1		10		calm					clear.
Brooklyn, Rio de Janeiro, Brazil	30.33	770.4	70	21.1	95	n.	1	0.4			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.18	766.6	68	20.0	95	sw.	2	0.9			10			0	0			rainy.
Constellation, Chesapeake Bay*	30.19	766.8	77	25.0	58	sw.			4		0							clear.
Enterprise, Portsmouth, N. H.	30.18	766.6	58	14.4	82	calm			0		2		calm					clear.
Essex, Coquimbo, Chili	30.07	763.8	58	14.4	82	nw.			2		10		nw.			sm'h		overcast.
Franklin, Norfolk, Va.	30.24	768.1	69	20.6	75	wsw.	6	2.7			2		se.	0	0			fair.
Galena, N. 8° 05′, W. 23° 45′	29.97	761.2	79	26.1	95	ssw.			4–5		10		sw.			r'gh	ssw.	cloudy.
Hartford, N. 40° 54′, W. 27° 13′*	30.40	772.1	74	23.3	86	w.			2		0			0	0	sm'h		clear.
Independence, Mare Island, Cal.	30.02	762.5	55	12.8	100	sw.			2		5		sw.	0	0			fair.
Iroquois, Acupulco, Mexico	29.96	761.0	80	26.7	82	calm			0		2							clear.
Kearsarge, N. 42° 56′, W. 70° 35′	30.20	767.1	61	16.1	94	wnw.			3		0					sm'h		clear.
Lackawana, Callao, Peru*	30.07	763.8	59	15.0	94	se.			2		10							cloudy.
Lancaster, Villafranca, France*	29.74	755.4	77	25.0	95	e.			3		2		ne.	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	30.02	762.5	62	16.7	100	nne.			4		10		n.	mod.	mod.	sm'h		rainy.
Michigan, Chicago, Illinois	30.09	764.3	71	21.7	85	sw.			1		0							clear.
Minnesota, New York, N. Y.	30.21	767.3	67	19.4	84	ssw.	1	0.4			10							overcast.
Monocacy, N. 37° 27′ E. 126° 33′	29.63	752.6	79	26.1	82	ne.			3		5		ne.					fair.
New Hampshire, Newport, R. I.	30.25	768.3	66	18.9	79	s.			1		5					sm'h		fair.
Nipsic, Villafranca, France*.	29.71	754.6	78	25.6	73	e.			2		2					sm'h	ssw.	fair.
Onward, Callao, Peru†	30.17	766.3	59	15.0	100	se.			4		10		n.			long	w.	misty.
Palos, Kobe, Japan*	29.68	753.9	78	25.6	86	nnw.			1		10		nnw.					cloudy.
Passaic, Washington, D. C.			69	20.6	100	se.			3		10							cloudy.
Pensacola, Payta, Peru*	29.96	761.0	62	16.7	88	ese.	6	2.7			2			0	0	sm'h		clear.
Portsmouth, Gibraltar, Mediterranean*	30.04	763.0	76	24.4	77	ne.			2		2		e.			sm'h		clear.
Powhatan, Norfolk, Va.	30.24	768.1	72	22.2	85	w.			1		0							clear.
Quinnebaug, Alexandria, Egypt*	29.82	757.4	80	26.7	87	nnw.			3		2		nw.			sm'h		fair.
Ranger, Mare Island, Cal.	30.00	762.0	61	16.1	88	sw.			2		10			0	0			cloudy.
Richmond, Yokohama, Japan*	29.75	755.6	80	26.7	91	s.			2		0			0	0			clear.
Saratoga, Gibraltar, Mediterranean	30.04	763.0	78	25.6	91	ese.			1		2		s.	0	0	sm'h		fair.
St. Louis, League Island, Pa.	30.43	772.9	69	20.6	80	calm			0		10			0	0			cloudy.
Swatara, N. 11° 38′, E. 109° 25′*	29.64	752.8	82	27.8	83	s.			3		0					sm'h		clear.
Tennessee, Portsmouth, N. H. †	30.22	767.6	60	15.6	100	calm	0	0			0			0	0			clear.
Vandalia, Portsmouth, N. H*	30.17	766.3	63	17.2	72	se.			1		2		calm					fair.
Wabash, Boston, Mass.	30.20	767.1	61	16.1	77	wsw.	2	0.9			5		w.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska †	30.03	762.7	50	10.0	93	e.			4		10		calm			sm'h		rainy.
Wyoming, Port Royal, S. C*.	30.20	767.1	72	22.2	76	nne.	11	4.9			2		calm	0	0			clear.
Yantic, Portsmouth, N. H.	30.20	767.1	60	15.6	82	w.			1		2							fair.
Merchant Marine.																		
Allan Line.																		
S. S. Circassian, N. 52° 15′, W. 51° 30′*	30.27	768.8	47	8.3	100	e.			3		2		se.	0	0			blue sky.
S. S. Grecian, Ismailia, Egypt*	29.78	756.4	91	32.8		nne.			4		0			0	0			clear.
S. S. Nova Scotian, N. 48° 49′, W. 47° 44′	30.14	765.5	54	12.2		ese.			4		10		ese.			sl't	w.	raining.
S. S. Scandinavian, N. 44° 01′, W. 57° 07′	29.81	757.2	64	17.8		wsw.			3		2		w.	0	0	high	ne.	d. clouds.
S. S. Waldensian, N. 53° 21′ W. 34° 48′ *	30.25	768.3	54	12.2		w.			4		8		w.	sh's	sh's	mod.	nw.	showery.
American Steamship Company.																		
S. S. British Crown, N. 39° 42′, W. 65° 05′†	30.17	766.3	70	21.1		n.			4		3		ne.	0	0	mod.	nne.	clear.
S. S. Indiana, Philadelphia, Pa †	30.21	767.3	67	19.4	94	s.			3		8		s.					cloudy.
S. S. Lord Clive, N. 50° 44′ W. 19° 00′*†	29.86	758.4				wnw.			6		6		wnw.	3 h'r	3 h'r	st'g	wnw.	cloudy.
S. S. Lord Gough, Philadelphia, Pa	30.15	765.8	76	24.4		s.			3		10							sprinkling.
S. S. Ohio, N. 44° 46′, W 40° 10′†	30.36	771.1	78	25.6	95	s.			1		2		w.			mod	sse.	fair.
Amsterdam Line.																		
S. S. Stella, N. 40° 31′ W. 61° 47′	30.11	764.8	68.0	20		nne.			2		4		ne.	¾ h'r	¾ h'r	5	ene.	d. clouds.
Anchor Line.																		
S. S. Bolivia, New York, N. Y. †	29.87	758.7	80	26.7		ene.			1					driz.	driz.			overcast.
S. S. Devonia, N. 54° 14′, W. 19° 36′†	29.64	752.8	54	12.2		e.			2		10		nw.			mod.	wnw.	overcast.
S. S. Dorian, N. 40° 32′ W. 60° 46′*	29.96	761.0	68	20.0		var.			1		4		ne.	0	0	h'vy	ene.	fair.
Atlas Line.																		
S. S. Alene, Savanilla, U. S. C †	29.89	759.2																
S. S. Alpin, N. 20° 06′, W. 73° 28′	29.98	761.5				ne.			4		10		ene.	0	0		ene.	
British Meteorological Office.																		
Auckland, S. 44° 17′, E. 95° 56′	29.68	753.9	50	10.0	93	w.			5		9							overcast.
S. Baroda, N. 18° 45′. W. 34° 44′	30.05	763.3	77.4	25.2	86	n.			4		10							overcast.
S. S. Basil, N. 11° 50′ W. 27° 42′	29.92	760.0	76	24.4	95	ene.			2		10							raining.
S. S. Cipero, N. 17° 20′ W 55° 54′	30.07	763.8	82.2	27.9	74	ese.			5		2							blue sky.
S. S. City of Agra, S. 39° 58′, E. 56° 30′	30.20	767.1	45	7.2	68	sw.			5		10							squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From	From.	Inch.	Mill.			
BRITISH METEOROLOGICAL OFFICE.—Continued.																		
S. S. Gordon Castle, N. 49° 17′ W. 8° 36′	29.92	760.0	63.2	17.3	94	w.			6		10							drizzling.
S. S. Humboldt, Montevideo, Uruguay	30.05	763.3	61.0	16.1	97	ne.			4		10							raining.
S. S. Minho, S. 34° 47′, W. 57° 30′	29.99	761.7	58.9	14.9	?	e.			2		8							d. clouds.
S. S. Oamaru, N. 30° 43′, W. 34° 18′	30.35	770.9	75.7	24.3	76	ene.			4–5									overcast.
S. S. Rosetta, N. 7° 10′, E. 73° 18′	29.84	757.9	77.5	25.3	82	nw.			4		9							d. clouds.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 31° 23′, W. 116° 46′ *†	29.99	761.7	66	18.9	90	nw.			1		10		nw.			mod.	w.	cloudy.
CROMWELL LINE.																		
S. S. Hudson, N. 30° 30′, W. 80° 30′ †	30.20	767.1	78	25.6		e.			5		8		ese.	2 h'r	2 h'r	mod.	e.	overcast.
CUNARD LINE.																		
S. S. Marathon, Lake Ismalia, Egypt	29.91	759.7	87	30.6		n.			3		0			0	0	sm'h	nw.	clear.
S. S. Scythia, N. 50° 41′, W. 20° 58′	29.86	758.4	61	16.1	82	w.			5		5		w.	7 h'r	7 h'r	sli't	wnw.	fair.
GUION LINE.																		
S. S. Wisconsin, N. 51° 13′, W. 22° 50′	29.93	760.2	52	11.1		nw.			7		2		nw.	6 h'r	6 h'r	r'gh	wnw.	fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Frisia, N. 44° 53′, W. 43° 47′*	30.22	767.6	77	25.0		sse.			4		0			0	0	mod.		clear.
S. S. Gellert, N. 40° 33′, W. 73° 20′	30.21	767.3	78	25.6		sw.			2		2		wsw.	0	0	sm h		fair.
S. S. Herder, New York, N. Y*	29.88	758.9	71	21.7		w.			1		4?		sw.	0	0			covered?
S. S. Silesia, N. 45° 40′, W. 54° 27′	30.03	762.7	61	16.1		sw.			6					4 h'r	4 h'r	6	sw.	fair.
S. S. Vandalia, N. 48° 34′, W. 17° 28′ *	30.03	762.7	57.9	14.4		wsw.			7		10		wsw.	2 h'r	2 h'r	long	wsw.	light rain.
JOHNSTON LINE.																		
S. S. St. Albans, N. 48° 26′, W. 22° 00′ *†	30.30	769.6	62	16.7		nw.			6		3		nnw.	4 h'r	4 h'r	h'vy	nw.	clear.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 17° 00′, W. 38° 00′ *†	30.41	772.4	74	23.3		s.			5		4		sse.	0	0	long	sse.	clear.
MALLORY LINE.																		
S. S. City of San Antonio, N. 36° 50′, W. 74° 28′*†.	30.38	771.6				calm			0		8			4 h'r	4 h'r	mod.	e.	cloudy.
S. S. Colorado, New York, N. Y †	30.30	769.6	65	18.3		w.			1		10?		w.	light	light			clear.?
S. S. San Marcos, Galveston, Texas	30.02	762.5				e.												fine.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Naples, Italy*†	29.94	760.5	80	26.7	78	w.			3		5		w.	0	0	sm'h	w.	fair.
MERCHANTS EXPRESS LINE.																		
S. S. Freja, N. 40° 33′, W. 73° 14′†	30.22	767.6	72	22.2	100	ssw.			4–5		5			0	0	sm'h		squally.
S. S. Hermod, N. 46° 30′, W. 26° 40′†	30.32	770.1	75.2	24		w.			3		10		wsw.	4 h'r	4 h'r	long	nw.	cloudy.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenapp, S. 10° —°, W. 35° 30′†	29.98	761.5				sse.			4		5		se.	3 h'r	3 h'r	low	se.	showery.
MORGAN LINE.																		
S. S. Chalmette, New York, N. Y†	30.20	767.1	72	22.2		sw.			1		1			2 h'r	2 h'r			clear.
S. S. New York, N. 32° 03′, W. 79° 45′ †	30.11	764.8	79	26.1		ne.			2		3		se.			small	ene.	clear.
NATIONAL LINE.																		
S. S. Canada, N. 40° 43′, W. 70° 44′†	30.21	767.3				n.			1		4		w.	0	0	sm'h	w.	clear.
S. S. Denmark, London, Eng.	29.65	753.1	65	18.3		wsw.			6		10		w.	0	0			cloudy.
S. S. Erin, N. 45° 24′, W. 38° 14′	30.39	771.9	77	25.0	73	sw.			2		2		sw.	0	0	sm'h		foggy.
S. S. Helvetia, N. 50° 53′, W. 13° 10′	29.66	753.4	62	16.7		w.			2		8			4 h'r	4 h'r	sli't	nw.	cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, St. Jago, Cuba, W. I†	30.02	762.5	78	25.6		n.			1		1			5 h'r	5 h'r			fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Havana, Cuba, W. I.†	30.07	763.8	85	29.4	79	ese.			2		2		e.	0	0			fair.
S. S. City of Puebla, N. 34° 20′, W. 75° 06′ †	30.17	766.3	81	27.2		ne.			10		5		ne.			long	ne.	fair.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 46° 10′ W. 49° 50′*	30.11	764.8	68	20.0		ssw.			3								ene.	dense fog.
S. S. Maas, N. 49° 18′, W. 10° 29′*	29.78	750.4	62	16.7		sw.			6							high		rainy.
NORTH GERMAN LLOYD.																		
S. S. Donau, N. 41° 18′, W. 56° 10′	30.15	765.8				ssw.			2		5		sw.	6 h'r	6 h'r	long	ne.	fair.
S. S. Elbe, N. 49° 30′, W. 24° 17′	30.08	764.1	60.8	16.0	85	nw.			5–6		5		nw.	0	0	r'gh	nw.	cloudy.
S. S. Gen. Werder, N. 47° 28′, W. 45° 22′	30.24	768.1				s.			4		10			16 h'r	16 h'r	mod.		rainy.
S. S. Graf Bismarck, Itapuan, Paraguay	30.37	771.4	75.2	24.0		se.			5		2		se.	0	0	light	se.	clear.
S. S. Habsburg, N. 47° 36′, W. 29° 48′	30.34	770.6	60.8	16.0		n.			4		5		n.	5 h'r	5 h'r	mod.	n.	cloudy.
S. S. Leipzig, N. 49° 04′, W. 11° 36′	29.95	760.7	63.5	17.5	94	wsw.			6		8		wsw.	2½ h'r	2½ h'r	long	wsw.	hazy.
S. S. Ohio, N. 40° 58′, W. 54° 31′	30.14	765.5				w.			1		3		w.	0	0	sm'h	ne.	fair.
S. S. Sallier, N. 49° 25′, W. 9° 02′	29.93	760.2	57.2	14.0		w.			6		8		w.	0	0	mod.	w.	cloudy.
S. S. Strassburg, N. 50° 09′, W. 25° 01′	30.09	764.3	57.0	13.9	94	nw.			6		5		nw.	7 h'r	7 h'r	cross	wnw.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 47° 41′, W. 177° 16′ †	30.19	766.8	54	12.2	?	sw.			4		10		w.	0	0	mod.	w.	hazy.
S. S. Belgic, Hong Kong, China†	29.90	761.0	77	25.0	91	calm			0		10		sw.	0	0			cloudy.
S. S. Coptic, N. 47° 05′ W. 155° 38′	30.16	766.1	57.5	14.2	?	wsw.			4		10		w.	0	0	2	w.	overcast.
S. S. Gaelic, Hong Kong, China †	29.79	756.7	82	27.8	96	sw.			7		10		sw.					raining.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York N. Y.†	30.23	767.8				sw.			1		10		sw.	light	light			smoky.
S. S. Seminole, N. 32° 45′, W. 79° 25′ †	30.27	768.8	74	23.3	90	ne.			4		1		e.	0	0	sm'h	ne.	clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 45° 48′, W. 124° 45′†	30.19	766.8	65	18.3	94	nnw.			2		fg					light	nw.	light fog.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 43° 59′, W. 124° 17′†	30.13	765.3	61	16.1	94	sse.			2		10					light	wsw.	misty.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal †	29.95	760.7	54	12.2	93	w.			3		10		w					cloudy.
S. S. City of Chester, San Francisco, Cal			53	11.7	?	nw.			2		5		nw.					light fog.
S. S. Idaho, N. 46° 28′, W. 124° 55′†	30.13	765.3	56	13.3	34	s.			4		10		nw.					raining.
S. S. State of California, Portland, Oregon †	30.73	780.5	62	16.7	88	calm			0		0							fair.
S. S. Victoria, New Westminster, Oregon †	29.98	761.5	62	16.7	88	se.			1		8			10 h'r	10 h'r	sm'h		overcast.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, S. 3° 49′, W. 107° 53′	29.85	758.2	80	26.7	91	ne.			3		1		ne.	0	0	mod.	ne.	clear.
S. S. City of New York, Sydney, N. S. W†	30.04	763.0	64	17.8	78	s.			1		8		s.	4 h'r	4 h'r			cloudy.
S. S. City of Pekin, N. 33° 58′, E. 137° 23′†	29.99	761.7	78	25.6	91	se.			3		2		sse.	0	0	long	s.	hazy.
S. S. City of Tokio, N. 35° 14′, E. 141° 58′ †	29.95	760.7	87	30.6	62	s.			1		2		s.	0	0	small	s.	fine.
S. S. Colima, Panama, Panama†	29.91	759.7	80	26.7	91	nw.			2		9		n.	0	0			cloudy.
S. S. Colon, N 24° 59′ W. 74° 05′ †	30.05	763.3	84	28.9		nne.			4		4		nne.	0	0	mod	ne.	fair.
S. S. Costa Rica, N. 29° 00′, W. 116° 00′ *.	30.01	762.2	64	17.8	89	nw.			4		10		nw.	0	0	light	nw.	cloudy.
S. S. Clyde, N. 28° 50′, W. 116° 47′ †	30.33	770.4	64	17.8	78	ne.			1		5?		ne.	0	0	long	nw.	clear ?
S. S. Grenada, N. 23° 07′, W. 108° 06′†	29.97	761.2	82	27.8	79	wsw.			1		2		ne.	0	0	sm'h	sw.	clear.
S. S. Zelandia, S. 34° 00′, E. 164° 48′	30.29	769.4	59	15.0		ne.			3		10		w.			mod.	ene.	overcast.
QUEBEC STEAMSHIP CO.																		
S. S. Bermuda, N. 30° 33′, W. 69° 27′ †	30.10	764.5	81	27.2		n.			4		8		e.	0	0	long	nne.	cloudy.
S. S. Muriel, St. Kitts, W. I.	30.04	763.0	82	27.8		ssw.			2		2			0	0	sm'h		hazy.
RED D LINE.																		
S. S. Caracas, N. 17° 44′, W. 67° 33′ *†	29.90	759.4				var.			1		6		calm	sh'rs	sh'rs		n.	showery.
S. S. Valencia, N. 18° 01′, W. 67° 38′ *†	30.12	765.0	81	27.2	91	n.			3		6		nnw.	light	light	mod.	n.	squally.
RED STAR LINE.																		
S. S. Belgenland, N. 41° 47′, W. 55° 00′†	30.29	769.4	76	24.4	68	calm			0		9			0	0	mod.		
S. S. Nederland, N. 41° 30′, W. 58° 55′ †	30.02	762.5	66	18.9	89	n.			1		2		n.	1 h'r	1 h'r	r'gh	ne.	fair.
S. S. Pennland, New York, N. Y.	30.23	767.8				calm			0		10		n.	0	0			threatening.
S. S. Rhynland, N. 40° 59′, W. 54° 30′	30.21	767.3	71	21.7	75	sw.			2		2		wsw.	6 h'r	6 h'r	high	var.	fair.
S. S. Switzerland, N. 49° 36′, W. 7° 30′†	29.97	761.2				ssw.			4		10		ssw.	1 h'r	1 h'r	long	wnw.	misty.
S. S. Vaderland, Antwerp, Belgium	29.67	753.0	60	15.6	71	wnw.			5		10		nw.	5 h'r	5 h'r			cloudy.
S. S. Waesland, N. 49° 11′ W. 15°, 50′	30.02	762.5	65	18.3	89	sw.			9		10		sw.	0	0	mod.	wsw.	hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. Edam, Amsterdam, Holland	29.89	759.2	62.5	16.9	91	ssw.			7		9		sw	9 h'r	9 h'r			squally.
S. S. Schiedam, N. 44° 48′, W. 47° 21′	30.14	765.5	74.5	23.6	91	s.			4		8		sw.	6 h'r	6 h'r	cross	ssw.	hazy.
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, Morant Bay, Jamaica, W. I	29.98	761.5	81	27.2		calm			0		5		ne.	1 h'r	1 h'r			fine
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.56	750.8	65	18.3		wnw.			3		9		wnw.	sh'rs	sh'rs			cloudy.
S. S. State of Georgia, N. 47° 01′ W. 46° 45′†	30.11	764.8	58	14.4		sse.			3		fg.			3 h'r	3 h'r	mod.	ne.	foggy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 41° 13′, W. 61° 12′†	30.34	770.6	68.0	20.0	?	ne.			2		2		ne.	0	0	long	ne.	clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 46° 52′, W. 19° 12′	30.16	766.1	74	23.3					2–4		8					2	w.	cloudy.
WHITE STAR LINE.																		
S. S. Adriatic, New York, N. Y*†	30.30	769.6	65	18.3	94	calm			0		10			0	0			cloudy.
S. S. Britannic, N. 42° 01′, W. 52° 46′†	30.22	767.6	75	23.9	72	sw.			3		5		sw.	0	0	mod.	sw.	d. clouds.
S. S. Celtic, Off Bardsey, Wales†	29.87	758.7	59	15.0	82	w.			3		10		wsw.	0	0	sm'h		dull.
S. S. Germanic, N. 48° 06′, W. 40° 44′†	30.50	774.7	61	16.1		ene.			4		10		ene.	14 h'r	14 h'r	sm'h		misty.
S. S. Republic, Liverpool, Eng†	29.92	760.0	60	15.6	71	wnw.			5		8		nw.	sh'rs	sh'rs			d. clouds.
WILSON LINE.																		
S. S. Otranto, N. 50° 02′, W. 40° 17′			59	15.0		e.			1		8		e.			short	s.	cloudy.
S.S. Romano, N. 39° 38′ W. 64° 15′	30.08	764.0	70	21.1		n.			3		2		n.			long	ene.	clear.
S. S. Salerno, N. 49° 42′, W. 7° 27′*	29.75	755.6	62	16.7		sw.			7		10		w.	0	0	hv'y	w.	
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa†	30.22	767.6	68	20.0		s.			1		10			rain	rain			raining.
MISCELLANEOUS.																		
Bk. Adelaide, N. 21° 19′, W. 52° 48*†	30.19	766.8	84	28.9		se.			4		1		se.	0	0	sm'h	se.	clear.
Schr. Ajax, Brandywine, Del†	30.35	770.9				sw.			1		10		n.	0	0	sm'h	n.	cloudy.
Bk. Alpha, Flensburg, Prussia†	29.43	747.5	64	17.8		nw.			4		8		nw.	2 h'r	2 h'r			squally.
Schr. Anna A. Holton, N. 28° 28′ W. 72 51′†	30.03	762.7	82	27.8		ne.			6		3		ne.	1 h'r	1 h'r	r'gh	nne.	clear.
Bk. Anna Thormann, S. 16° 00′, E. 105° 59′	30.01	762.3	71.6	22.0	86	sse.			5		8 k;n		ne.	sh'rs	sh'rs	mod.	se.	rainy.
S. S. Antonio Lopez, Santander, Spain*	30.22	767.6	74	23.3	76	w.			1		6			20 h'r	20 h'r			fair.
Schr. Asa Eldridge, Key West, Fla†	30.17	766.3				ene.			9		5		ese.	0	0			fair
Bk. Aureola, N. 17° 33′ W 52° 35′*†	30.14	765.5	88	31.1		se.			2		2		se.	0	0	mod.	ene.	clear.
Bk. B. F. Watson, N. 7° 56′ W. 29° 48′†	29.94	760.5	80	26.7		ssw.			6		8			8 h'r	8 h'r	r'gh	ssw.	cloudy.
Bk Bergenseren, N. 40° 58′ W. 22 20′†	30.34	770.6				nw.			0–1		3		nw.	0	0	1	nw.	fair.
Bk Bremen, N. 47° 49′ W. 39° 56′*†	30.46	773.7				e.			6		10		ese.	4 h'r	4 h'r	cross		cloudy.
S. S. Burswell, N 45 15′, W. 21° 35′*†	30.26	768.6	74	23.3		wsw.			4		7		wnw.	18 h'r	18 h'r	str'g	wnw.	threatening
Bk. Cato, Aland Sea*†	29.76	755.9				ssw.			4		3		sw.					
Bk. Celestina, N. 24° 06′, W. 33° 46′*†	30.12	765.0				ne.			3		0			0	0	r'gh	e.	hazy.
S. Dora, S. 25° 50′ W. 35° 38′†	30.47	773.9	73.4	23.0		se.			2		3 ks		nne.	0	0	sm'h		clear.
Schr. Edith R. Seward, Baltimore, Md*†	30.20	767.1	68	20.0		e.			1		9		s.	0	0			cloudy.
S. E. J. Spicer, N. 45° 24′, W. 31° 00′*	30.33	770.4	72	22.2					5				ene.	sh'rs	sh'rs	mod.	nw.	overcast.
Bk. E. L. Pettingill, N. 24° 00′, W. 158° 35′†	30.30	769.6				ene.			6		8		e.	sh'rs	sh'rs	mod.	e.	
S. Enoch Train, Weser River, Ger†	29.64	752.8				wsw.			6		6		sw.					showery.
Bk. Essex, Aden, Arabia													w.	0	0	mod.	wsw.	fine.
Bk. Franklin, N. 56° 00′, E. 12° 38′*†	29.62	752.3				sw.			2		5			0	0	sm'h		
Bk. Freya, N. 43° 41′, W. 39° 35′			80	26.7		ssw.			3		2		sw.	1 h'r	1 h'r	sm'h		clear.
S. Glendon, N. 33° 30′ W. 44° 50′†	30.31	769.9	85	29.4		ese.			3		9		se.	0	0	sm'h		fair.
Bk. Godfrey, N. 18° 25′, W. 26° 07′	29.99	761.7	77.7	25.4	82	ene.			4		7		ene.	0	0	long	nne.	hazy.
S. Grecian, N. 7° 50′, E. 110° 30′*†	29.80	756.9	82	27.8		sw.			2		2		sw.	0	0	sm'h		clear.
Bk. Gronsvaer, N. 8° 00′ W. 26° 50′†	29.93	760.2				sw.			7		5		sw.	8 h'r	8 h'r	cross	sw.	showery.
Bk. Hattie G. McFarland, Bath, Maine*†	30.20	767.1	58	14.4		w.			1		0			0	0			clear.
Schr. Hattie Weston, N. 35° 50′ W. 75° 15′*†	30.34	770.6	75	23.9		ne.			1		1		ne.	0	0	sm'h	ese.	clear.
Bk. Heinrich & Tonio, N. 53° 57′, E. 6° 50′*†	29.67	753.6	60	15.6		wnw.			6		8			8 h'r	8 h'r	r'gh	wnw.	cloudy.
Schr. Henry Denison, N. 25° 39′, W. 70° 21′†	29.96	761.0				nne.			4		6		se.			long	nw.	fair.
Bk. Horace Scudder, N. 13° 00′, W. 61° 50′†	30.09	764.3	84	28.9		e.			3		1		calm	2 h'r	2 h'r			blue sky.
S. Ivy, S. 56° 23′, W. 71° 34′†	29.96	761.0	40	4.4		wnw.			1		10		wnw.	2 h'r	2 h'r	long	w.	drizzling.
S. Ismir, N. 13° 39′ E. 113° 20′†	29.87	758.7				sse.			2		5		sse.	0	0	sm'h		fine.
Schr. Jennie N. Huddell, Off Cape Cod, Mass†	30.15	765.8	66	18.9	90	wsw.			1		4		nw.	0	0	sm'h		fair.
Schr. John L. Thomas, N. 27° 45′, W. 71° 35′*†	30.12	765.0				ne.			5		8		ssw.	0	0	mod.	ne.	cloudy.
Bg. John Wesley, Guantanamo, W. I†	29.86	758.4				n.			1		0			0	0			clear.
Bk. Joseph A. Ropes, S. 32° 36′, E. 44° 53′*†	30.26	768.6	69	20.6	84	nw.			3		7		wnw.	0	0	mod.	sw.	cloudy.
Bkt. Josephine, Havana, Cuba, W I†	30.00	762.0	84	28.9	75	se.			1		0			0	0			clear.
S. S. Lamperts, N. 41° 01′, E. 29° 00′*	29.84	757.9	78.0	25.6	57	var.			1		0							blue sky
S. S. Laurel, Key West, Fla.†	30.09	764.3	85	29.4		ne.			2		4		ne.	0	0			fair.
S. S. Madrid, N. 52° 54′, W. 28° 27′*†	30.28	769.1	52	11.1		nw.			7		4		nw.	6 h'r	6 h'r	mod.	nnw.	showery.
Schr. Maggie Abbot, N. 19° 26′, W. 72° 43′†	29.96	761.0									2			0	0			
S. S. Malabar, N. 38° 30′, W. 152° 54′†	30.44	773.2				n.			3		10		w.	0	0	mod.	w.	cloudy.
S. Minnie N. Gerow, N 36° 00′, W. 2° 37′*†	30.04	763.0				ene.			4		2		e.			sm'h		fair.
S. M. P. Grace, S. 11° 00′, W. 109° 36′*	30.11	764 8	72	22.2		ese.			2				se.	0	0	sm'h	se.	squally.
Bk. National Eagle, N. 50° 05′ W. 3° 42′†	30.02	762.5				sw.			4		5		w.	0	0	sm'h		fair.
S. S. Nebo, N. 36° 42′, W. 37° 27′ *†	30.12	765.0				se.			2		2		w.	½ h'r	½ h'r	long	se.	cloudy.
Schr. Ocean Traveller, N. 29° 45′, W. 67° 26′†	30.01	762.2				ene.			5		3		e.			long	ne.	fair.
S. Oracle, N. 33° 02′, W. 48° 40′*	30.20	767.1	80	26.7	91	s.			1		2					rg'h	sse.	squally.
S. Orealla, N. 7° 50′, W. 27° 30′*	29.76	755.9				ssw.			6		10		ssw.	12 h'r	12 h'r	h'vy	s.	cloudy
Bk. Rosebud, S. 20° 39′, E. 59° 17′*†	30.18	766.6	77	25.0	77	e.			6		0			0	0	sm'h		fine.
S. St. Francis, N. 30° 00′ W. 39° 37′†	30.29	769.4	78	25.6		ese.			4		3		ese.	0	0	sm'h	ese.	hazy.
Schr. S. B. Hubbard, Gardiner, Me†	30.23	767.8	58	14.4		calm			0		fg.			0	0			dense fog.
Bk. Sunbeam, N. 37° 47′ W. 19° 45′†	30.44	773.2	72	22.2	85	nne.			5		10		nne.	0	0	mod.	nne.	cloudy.
S. S. Sunbeam, Rotterdam, Holland	29.70	754.4	62	16.7	66	w.			6		9		w.					threatening.
S. Sovereign Of The Sea, S. 56° 31′ W. 67° 29′*†	29.34	745.2	44	6.7	92	wnw.			1		9		w.	1 h'r	1 h r	long	wsw.	cloudy
U.S.F.C.S. S. Fish Hawk, N. 39° 56′ W. 70° 35′†	30.42	772.7	67	19.4	84	n.			2		2		calm	0	0			clear.
Schr. Victor Ping, N. 16° 24′, W. 68° 40′*†	30.02	762.5				ene.			2		2		e.			sm'h	ne.	fair.
Bk. Vincenzo Accame, N. 40° 00′, W. 70° 50′†	30.47	774.0	69.8	21.0		nnw.			4		0							clear.
Schr. Viola Reppard, Savannah, Gat	30.16	766.1	76	24.4		ne.			1		1?		ne.	0	0			
Bk. Wandering Jew, N. 40° 55′ W. 68° 55′*†	30.25	768.3	65	18.3		calm			0		3		sw.	0	0	long	e.	clear.
Bg. Wauburn, N. 28° 50′, W. 76° 06′*†	30.10	764.5				ne.			5		4		ne.			cross		¼ covered.
Bk. Warden Law, N. 45° 58′, W. 14° 15′*	30.20	767.1				w.			5		4		w.	2 h'r	2 h'r	sm'h	w.	hazy
S. Wm. Woodbury, N. 60° 09′, W. 3° 30′*	29.37	746.0	58	14.4	93	w.			4		4		w.			long	nw.	cloudy.

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

UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 23, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.03	762.7	81.3	27.4	83	s.			2		3			0	0	pretty fair	Bouvier.
Algiers			30.04	762.9	79.5	26.4	72	ne.			1		0			0	0	clear	Thève.
La Galle			30.04	763.1	84.2	29.0	68	nne.			1		2			0	0	fair	Fonfrède.
Tunis			30.01	762.2															Jacques.
Saida			30.08	764.1															Perés.
Tebessa			30.13	765.4	83.5	28.6	24	n.			1		0			0	0	clear	Rigaud.
Geriville					96.1	35.6	2	e.			1		0			0	0	clear	Lonchamp.
Laghouat			30.10	764.5	97.5	36.4	23	se.			2		1			0	0	very fair	Abraham.
Biskra			30.09	764.2	93.2	34.0	35	sw.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.25	768.3	30.34	770.6	51.2	10.7	86	calm	0	0			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.37	746.0	29.91	759.6	66.9	19.4	71	se.			1		3			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.98	736.0	29.72	754.9	65.1	18.4	48	sw.	11.9	5.3			8			0.004	0.1		Dr. Wierzbiski.
Eperies	28.93	734.8	29.78	756.4	66.6	19.2	63	s.			2	0	5 ks		n.	0	0		Julius Mikolik.
Gratz	28.64	727.5	29.85	758.3	68.0	20.0	68	se.			2		1			0.118	3.0		Andreas Rospini.
Hermannstadt	28.56	724.0	29.90	759.4	65.1	18.4	52	nw.			4		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.44	722.4	29.73	755.2	66.9	19.4	66	e.			1	3 c	0			0	0		The Staff.
Lemberg	28.81	731.8	29.77	756.1	64.9	18.3	60	nw.			4		6			0	0		Dr. T. Stanecki.
Pola	29.80	756.8	29.90	759.5	77.5	25.3	74	ese.			3		8			0	0		I. R. Hydrographic Office.
Szathmar	29.40	746.8	29.85	758.2	67.1	19.5	54	w.			4		4			0	0		Joseph Midlinszay, S. J.
Szegedin	29.65	753.2	29.93	760.1	68.4	20.2	58	w.			2		6			0	0		Karl Stancel.
Trieste	29.83	757.6	29.93	760.2	77.7	25.4	45	e.			1		6			0	0		Royal Academy.
Vienna	29.11	739.3	29.80	756.8	70.2	21.2	47	ese.			2		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.02	737.1	29.11	739.4	55.6	13.1	70	nnw.	15	6.7			9			0	0	overcast	W. Boswell
Armagh, Observatory	29.13	739.9	29.36	745.7	56.5	13.6	84	wnw.	8	3.6			8					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.26	743.2	54.3	12.3	79	w.	46	20.6			9					overcast	John Hartnup.
Bolton, Sharples	28.70	729.0	29.22	742.2	52.9	11.6	87	wnw.	18	8.0			10					raining	Thomas Mackereth.
Bradford, Yorkshire	28.78	731.0	29.17	740.9	56.5	13.6	65	nw.			5		10			0.04	1.0	overcast	McLandsborough & Preston
Bridgetown, Barbadoes	29.94	760.5	29.97	761.2	86.0	30.4	68	se.			1		2					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			29.30	744.2	61.4	16.3	66	w.			7.0		8					overcast	John McLaren.
Chatham, School M. E.	29.29	744.0	29.42	747.3	60.4	15.8	57	w.			3		6					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.40	746.7	29.63	752.6	59.8	15.4	63	w.			6		6					squally	The Staff.
Fort Napier, Natal	27.78	705.6	29.99	761.7	70.0	21.1	49	nw.			1		2					blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.77	756.1	30.00	762.0	84.0	28.9	74	sw.			1		6						Sergt. John Robinson.
Gibraltar, Mediterranean	29.91	759.7	29.96	761.0	81.0	27.2	80	se.			1		0					blue sky	Corpl. F. Norris, A. H.C
Glasgow, Observatory	28.99	736.3	29.19	741.4	58.9	14.9	54	nnw.			4		5 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.21	741.9	29.37	746.0	62.2	16.8	60	w.			6		9					d. clouds	The Staff.
Guernsey	29.36	745.7	29.66	753.4	61.5	16.4	68	w.			5		0			blank	blank	blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.37	746.0	29.40	746.7	61.8	16.6	44	w.	29	13.0			7					d. clouds	The Staff.
Leicester, Museum	29.04	737.6	29.28	743.7	55.6	13.1	68	w.			4		10					overcast	J. C. Smith.
Malta, Mediterranean	29.81	757.2	29.88	758.9	78.8	26.0	88	ne.			2		4					d. clouds	W. D. Ballau.
Nassau, Bahamas	30.05	763.3	30.09	764.3	84.0	28.9	67	ne.			3		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.80	731.5	29.31	744.5	55.1	12.8	73	w.			6		9					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.17	740.9	29.40	746.7	58.9	14.9	53	wsw.			6		5					threatening	The Staff.
Plymouth	29.50	749.3	29.57	751.1	64.2	17.9	59	w.			4		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.15	740.4	55.3	12.9	86						10					raining	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.81	757.2	29.88	758.9	78.2	25.7	45	n.			2		4					misty	W. H. Lyne.
Sheffield	28.98	736.1	29.25	742.9	56.3	13.5	87	wsw.			4		9			0.02	0.5	overcast	W. F. Cooper.
Silloth Rectory	29.17	740.9	29.20	741.7	55.2	12.9	83	nw.			3		8			0.110	2.8	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.24	742.7	53.1	11.7	79	wnw.	23	10.3			10					overcast	I. New.
Strathfield Turgiss					64.5	18.1	50	w.			4-5		6					squally	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.63	752.6	29.64	752.8	63	17.2	72	w.			7		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.60	753.4	29.69	754.1	55.0	12.8	82	wnw.	26	11.6			6			blank	blank	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.02	762.5	30.06	763.5	*61	16.1	77	w.	12	5.4		0	0			0.105	2.7	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.00	762.0	30.06	763.5	55	12.8	86	nw.	5	2.2		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	30.02	762.5	30.04	763.0	55	11.8	83	sw.	10	4.5		2 c	0	calm		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.11	739.4	29.92	760.0	59	15.0	93	se.	6	2.7		0	0			0	0	clear	James Stewart.
Halifax, N. S*	30.00	762.0	30.13	765.3	56	13.3	86	w.	1	0.4		0	sk.			0.250	6.3	smoky	A. Allison.
Kingston, Ontario*	29.64	752.8	29.96	761.0	67	19.4	100	sw.	3	1.3			10 ks		s.	0.50	12.7	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.80	756.9	30.00	762.0	64	17.8	78	s.	12	5.4		5 ck	5 s	sw.		0	0	cloudy	C. H. McLeod, C. E
Parry Sound, Ontario*	29.27	743.4	29.94	760.5	66	18.9	93	s.	2	0.9		2 k	2 ks	w.	w.	0.03	0.8	fair	Rev. R. Mosley.
Port Dover, Ontario	29.31	744.5	29.98	761.5	70	21.1	100	calm	0	0			10 n			0.01	0.3	threatening	H. Morgan.
Port Stanley, Ontario	29.37	746.0	29.99	761.7	69	20.6	93	sw.	1	0.4			10 k		w.	0.02	0.5	cloudy	M. Payne.
Quebec, Quebec*	29.76	755.9	30.07	763.8	59	15.0	81	calm			0	0	2 s			0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.48	748.8	29.92	760.0	64	17.8	93	calm	0	0			10 s		s.	0.67	17.0	light rain	W. H. McIntyre.
Saugeen, Ontario*	29.26	743.2	29.95	760.7	66	18.9	93	n.	8	3.6			10 ks			0.23	5.8	cloudy	
St. Andrews, N. B	30.05	763.3	30.10	764.5	53	11.7	93	calm	0	0		0	0			0	0	clear	
Sydney, C. B*	30.04	763.0	30.10	764.5	58	14.4	80	sw.	3	1.3		2 c	0	w.		0.01	0.3	clear	T. C. Hill, C. E
Toronto, Ontario*	29.59	751.6	29.96	761.0	66	18.9	100	w.	3	1.3			10 n			0.49	12.4	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.00	763.5	30.13	765.3	55	12.8	96	sw.	1	0.4			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.60	726.4	29.96	761.0	66.0	18.9	94	nw.			3	10	0	nw.		0.310	7.9	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.987	761.87	30.237	767.87	62	16.7	88	sw.	2	0.8		0	0			0	0		John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.18	766.6	30.20	767.1	65	18.3	83	calm	12.0	5.5		0	2 k			0	0	light haze	C. Hansen.
Cape Town, C. G. H. Obs'y	30.03	762.7	30.06	763.5	70.8	21.6	60	sse.	10	4.5		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Chinese (*Sub-series*).																			
Hankow																			
Zi-Ka-Wei, near Shanghai	29.81	757.2	29.84	757.8	74.8	23.8	87	n.	4.9	2.2		2 ck	0	ne.		0.008	0.2	clear	N. Titoushkin. M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.29	743.9	29.34	745.1	61.2	16.2	79	ssw.	20	9			10						Oversergent Fischer.
Fanöe	29.07	738.3	29.09	738.8	63.5	17.5	68	sw.			6		6						Overloerer Lauridsen
Godthaab, Greenland	29.84	757.9	29.88	759.0	40.3	4.6	98	s.			4		10			0.252	6.4	raining.	S. Kleinschmidt.
Ivigtut	29.87	758.7	29.89	759.2	46.9	8.3		calm			0		10						
Stykkisholm, Iceland	29.79	756.7	29.84	757.8	43.9	6.6	85	ne.			7		8						A. O. Thorlacius.
Thorshavn	29.17	741.0	29.21	741.9	52.2	11.2	89	calm	0	0			10						Overloerer Bergh.
Vestervig	28.98	736.0	29.07	738.3	56.5	13.6	93	se.			6		10						Loearer Oesterbol.
French.																			
Agen, Normal School	29.43	747.6	30.07	763.7	69.4	20.8	57	s.			1		8		w.	0	0	very cloudy	M. Labroue, Director.
Alençon, Normal School	29.18	741.2	29.73	755.2	64.8	18.2	69	sw.			4		k	sw.	sw.	1.26	32.		M. Nicot, Director.
Arras, Engineer School	29.29	743.9	29.54	750.2	59.7	15.4	71	w.			10		kn			0.004	0.1		M. Fénéon, Command't.
Avignon, Normal School	29.77	756.2	29.85	758.2	84 2	29	40	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.21	742.0	29.76	755.9	55.6	13.1	87	sw.			3		10			0.157	4.0	raining	M. Saillard, Director.
Beauvais, Normal School	29.46	748.3	29.72	754.9	64.9	18.3	55	w.			4		8		w.	0.087	2.2	very cloudy.	M. Frère Eugène Maris.
Besançon, Normal School	28.82	732.0	29.68	753.8	73.4	23	81	s.			3		5		nw.	0.59	15.		M. Gobin, Director.
Bordeaux, Observatory	29.62	752.4	29.87	758.8	66.6	19.2	88	nw.			1		10		w.	0.039	1.0	covered	M. Rayet, Director.
Bourges, Normal School	29.21	742.0	29.75	755.7	58.1	14.5	78	wnw.			4				wnw.	0.169	4.3		M. Malet, Director.
Brest, Naval Observatory	29.60	751.7	29.84	757 9	66.2	19.0	63	wnw.			3		6		wnw.	0.138	3.5	hailing	M. de Kermarec, Dir.
Caen, Normal School	29.59	749.2	29.57	751.1	55.4	13	82	w.			3		5		sw.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.35	745.5	29.67	753.5	57.2	14.0	86	sw.			4		10			0	0	covered	M. Jadot, Director.
Charleville, Normal School	29.07	738.3	29.57	751.0	57.6	14.2	71	w.			3		10			0.051	1.3	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.47	723.2	29.77	756.1	72.7	22.6	53	sw.			2		8			0	0	¾ covered	M. Allnard, Director.
Cluny, Normal School	28.97	735.9	29.76	756.0	77.7	25.4	39	wsw.			2		9		wsw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.19	716.0	29.75	755.6	54.7	12.6	98	w.			3		10 n					raining	Dr. Coulet, Director.
Gap, Normal School	27.32	693.8	29.72	754.8	80.1	26.7	29	n.			2	0	2 k		n.	0.091	2.3		M. Jeanjirard, Director.
Gréasque, du Rhone	28.78	730.9	29.84	757.9	83.1	28.4	27	s.			3		1		se.	0	0		M. Kina, Director.
Grenoble, Normal School	28.97	735.7	29.70	754.3	76.6	24.8	49	e.			1		10 n		nnw.	0.807	20.5	raining	M. Ablard, Director.
Lamballe, Normal School					63.5	17.5	52	w			4		10		w.	0.138	3.5	hailing.	M. Ollitrault, Director.
Lescar, Normal School	29.44	747.8	29.99	761.7	71.6	22.0	66	w.			1		10			0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.73	755.1	29.83	757.7	65.8	18.8	66	w.			2		5		w.	0.020	0.5	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.76	730.5	29.76	756.0	79.3	26.3	33	sse.			1	5 c; ck		wsw.	w.	0	0	½ covered	M. André, Director.
Mans, Normal School	29.45	747.9	29.74	755.4	63.3	17.4	49	w.			6		5		w.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.63	752.6	29.89	759.2	73.9	23.3	44	w.			1		0			0	0		M. Stephan, Director.
Montlouis																			M. Cave, for Dr. Fines.
Montpellier, Normal School	29.78	756.4	29.90	759.4	78.8	26	76	wnw.			1		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	28.98	736.1	29.74	755.4	65.5	18.6	59	sse.			3		10 kn					raining	M. Hasse, Director
Nantes, Observatory	29.69	754.1	29.85	758.2	67.6	19.8	55	wnw.			2–3		8k; kn	wsw.	wnw.	0.189	4.8		M. Larocque, Director.
Perpignan, Observatory	29.75	755.7	29.85	758.3	79.0	26.1	59	se.	11.2	5.0			0			0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.34	542.0			50.4	10.2		sw.			1		5		sw.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.83	732.2	29.84	758.0	75.2	24	39	s.			1		10			0	0	covered	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.03	635.8			50.0	10.0	100	wsw.			6		10			0	0	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.80	757.0	29.84	757.8	64.0	17.8	83	w.			2		10		w.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.63	752.6	29.84	757.9	63.0	17.2	74	w.			2		10		e.	0.083	2.1	hailing	M. Mouillot, Director.
Rodez, Normal School	27.81	706.3	29.91	759.6	68.0	20.0	69						10		nw.	0	0	covered	M. Seger, Director.
Rouen, Normal School	29.62	752.4	29.67	753.6	63.3	17.4	61	w.			4		5		nw.	0.181	4.6	cloudy	M. Brotier.
Saint Maur, Observatory	29.50	749.4	29.67	753.6	61.5	16.4	67	sw.			2		10		w.	0.165	4.2		M. Renou, Director.
Toulouse, Observatory	29.26	743.3	29.99	761.7	74.1	23.4	64	wnw.			1		8		nw.	0	0	very cloudy.	M. Baillaud, Director.
Tours	29.53	750.1	29.71	754.6	63.3	17.4	67	sw.			3		10		nw.	0.028	0.7	covered	M. de Tastes.
Versailles, Observatory	29.20	741.6	29.69	754.2	63.3	17.4	63	sw.			2					0.091	2.3		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.38	746.3	29.67	753.7	63.5	17.5	65	wsw.			3		9		wsw.	0.118	3.0		M. Marié Davy, Director
German.																			
Ansbach	28.25	717.6	29.63	752.7	71.6	22.0	49	sw.			4		5	sw.		0.039	1.0		Prof. Jnedt.
Bamberg	28.84	732.4	29.68	753.8	70.3	21.3	66	sw.			3	0	7 k		sw.	0.039	1.0		Prof. Dr. Hoh.
Berlin	29.34	745.1	29.51	749.5	65.1	18.4	68	sw.			2		10			0.295	7.5		Prof. Dr. Arndt.
Breslau	29.20	741.7	29.72	755.0	67.1	19.5	46	sw.			3		3			0	0		Royal University Obs'y.
Carlsruhe	29.18	741.1	29.60	751.7	73.0	22.8	54	sw.			5		9	sw.		0.465	11.8		Albert Senz.
Cassel	28.75	730.2	29.46	748.3	64.4	18.0	74	sw.			8		7	sw.		0.039	1.0		Dr. H. Möhl.
Frankfort-on-the-Main	29.19	741.5	29.54	750.3	71.1	21.7	66	sw.			3		8			0.016	0.4		Physical Society.
Friedrichshafen	28.34	719.8	29.73	755.1	65.8	18.8	61	sse.			2		2	wsw.		0.799	20.3	hazy	Wilhelm, Chief Tel.
Hamburg	29.24	742.6	29.33	744.9	59.0	15.0	96	s.			6		10			0.976	24.8	raining	E. Preller.
Kiel	29.26	743.3	29.28	743.7	58.8	14.9	92	ssw.			4		10			0.472	12.0		Prof. Dr. G. Karsten
Leipsic, Astron'l Obs'y	29.15	740.5	29.56	750.9	63.3	17.4	80	ssw.			3		9	sw.		0.063	1.6	rainy	H. Leppig, Asst.
Magdeburg	29.29	744.0	29.47	748.6	64.2	17.9	77	s.			4		10 ks		sw.	0.051	1.3		Dr. Assmann.
Memel	29.51	749.5	29.56	750.7	66.9	19.4	69	wsw.			5	0	4 k						Issermann.
Munich	27.95	710.0	29.80	756.9	71.8	22.1	42	calm			0		1	s.		0	0		Dr. C. Lang.
Neufahrwasser	29.60	751.9	29.62	752.3	67.6	19.8	58	sw.			2		5			0.004	0.1		A. Lothes.
Neustadt, Palatinate	29.02	737.2	29.54	750.4	74.3	23.5	52	sw.			2		5	sw.		0.047	1.2		Dicknether.
Stuttgart	28.71	729.2	29.55	750.6	75.7	24.3	48	sw.			3		3	w.		0.083	2.1		Prof. Dr. Schoder.
Wustrow	29.45	748.0	29.48	748.7	57.2	14.0	84	ssw.			5		10 s			0.252	6.4		Profs. Brandes & Reimer
Greek.																			
Athens	29.47	748.6	29.84	757.8	92.3	33.5		se.			0.5		4			0	0		Schmidt & Wourlisch
Indian.																			
Kurrachee	29.64	752.8	29.69	754.0	83.3	28.5	77	wsw.	27.0	12.1			4		w.	0	0	d. clouds	
Deesa	29.18	741.2	29.65	753.0	83.2	28.4	62	sw.	6.0	2.7			10	wsw.		0	0	overcast	
Bombay	29.72	755.0	29.76	756.0	83.3	28.5	75	wnw.	9.0	4.0			9	nw.	wnw.	0	0	d. clouds	
Poona, Yarrowda	27.88	708.3	29.73	755.2	78.8	26.0	62	wsw.	20.0	8.9			9	w.	w.	0	0	d. clouds	
Trichinopoly	29.45	748.0	29.73	755.1	83.2	28.4	62	ssw.					10			0	0	overcast	
Bellary	28.21	716.5	29.04	752.8	91.0	32.8	35	wnw.	11.7	5.2			10			0	0	d. clouds	
Belgaum	27.22	691.5	29.75	755.7	76.3	24.6	70	w.	9.0	4.0			5	se.	nw.	0	0	d. clouds	
Lahore	28.85	732.8	29.57	751.1	93.1	33.9	53	e.	6.0	2.7			0			0	0	blue sky	
Roorkee	28.74	729.9	29.63	752.6	79.2	26.2	86	n.	0.8	0.4			10			0.80	20.3		
Agra	29.01	736.9	29.58	751.2	80.3	26.8	91	ne.	2.0	0.9			7		ne.	0.20	5.1	d. clouds	
Nagpur	28.59	726.1	29.60	751.9	89.5	31.9	46	wsw.	8.0	3.6			7		nw.	0	0	d. clouds	
Jubbulpore	28.30	718.8	29.64	752.8	83.3	28.5	64	nw.	3.8	1.7			4		nw.	0.25	6.4	d. clouds	
Lucknow	29.22	742.2	29.60	751.7	83.9	28.8	79	calm	2.2	1.0			5	e.		0.08	2.0	d. clouds	
Allahabad	29.28	743.8	29.60	751.8	79.7	26.5	91	calm	0	0			9		sw.	4.28	108.7	d. clouds	
Patna	29.44	747.7	29.62	752.4	88.0	31.1	67	sse.	2.6	1.2			5	sse.	sse.	0.28	7.1	d. clouds	
Hazaribagh	27.64	701.9	29.63	752.5	79.0	26.1	85	calm	4.6	2.1			10			1.51	38.4	thnd'rstorm	
Cuttack	29.55	750.6	29.63	752.6	87.5	30.8	73	wsw.	3.2	1.4			4			0	0	d. clouds	
Calcutta, Alipore	29.60	751.8	29.62	752.4	80.7	27.1	91	calm	0	0			9			0.03	0.8	gloomy	
Dhubri	29.49	749.1	29.61	752.1	82.8	28.2	76	calm	0	0			7			0	0	d. clouds	
Chittagong	29.56	750.9	29.65	753.1	80.7	27.1	85	s.	1.8	0.8			5			0	0	blue sky	
Sibsagar	29 30	744.1	29.62	752.5	88.6	31.4	72	e.	1.0	0.4			6	sw.	sw.	0	0	d. clouds	
Jeypore	28.17	715.6	29.62	752.3	75.7	24.3	95	nne.	2.5	1.1			10		nne.	0.54	13.7	overcast	
Zanzibar, Africa	29.95	760.7			82.5	28.1	48	s.	5.7	2.5			6		se.	0	0	d. clouds	
Italian.																			
Udine	29.52	749.9	29.92	760.0	75.7	24.3	43	e.	0.7	0.3			9			0	0		Prof. Giovanni Cloelia.
Milan	29.39	746.4	29.88	759.0	77.9	25.5	51	ese.	7.4	3.3			2	ese.		0	0		Prof. Schiaparelli.
Padua	29.78	756.5	29.89	759.2	75.7	24.3	53	ene	4.9	2.2			0			0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.97	735.9	29.85	758.1	76.8	24.9	58	nne.	3.1	1.4			6	ne.		0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Genoa	29.71	754.6	29.89	759.3	77.5	25.3	56	sw.	6.3	2.8			0			0	0		Prof. G. M. Garibaldi
Mondovi	27.99	711.0	29.83	757.6	77.4	25.2	49	nw.			2		0			0	0		Prof. P. C. Bruno
Pesaro	29.81	757.2	29.86	758.4	78.8	26.0	75	e.	12.5	5.6			0			0	0		Prof. Luigi Guidi.
Florence	29.64	752.8	29.88	759.0	80.2	26.8	42	nw.			2		0			0	0		Prof. Costantino Pitter
Leghorn	29.75	755.7	29.84	757.8	80.1	26.7	63	ssw.	5.6	2.5			0			0	0		Prof. P. Monte.
Rome	29.72	755.0	29.89	759.3	85.1	29.5	47	sw.	11.2	5.0			0			0	0		Prof. P. Tachini.
Lecce	29.66	753.3	29.90	759.4	80.6	27.0	54	n.	8.1	3.0			0			0	0		Prof. C. de Giorgi
Cosenza	29.00	736.7	29.85	758.3	84.6	29.2	72	sw.	3.8	1.7			6	s.		0	0		Prof. D. Conti.
Cagliari	29.68	753.8	29.87	758.6	83.7	28.7	34	nw.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.67	753.6	29.91	759.7	80.6	27.0	48	ne.	8.7	3.9			1			0	0		Prof. G. Ciacciatore.
Syracuse	29.82	757.5	29.87	758.6	79.9	26.6	64	e.	2.5	1.1			2	sw.		0	0		Prof. Vincenzo Guilian
Sub-series.																			
Naples, S. R	29.42	747.2	29.92	760.0	79.5	26.4	59	sw.	1.3	0.6			1			0	0		Prof. T. Brioschi.
Stelvio	22.20	563.8			48.2	9.0	61	w.			4		2			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.23	564.7			54.5	12.5	74	n.			2		5			0.134	3.4	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.81	757.2	29.85	758.2	73.1	22.8	89	n.	3.7	1.7		0	1 ck			0	0	clear	K. Ogawa.
Hakodate	29.85	758.2	29.87	758.7	72.2	22.3	92	e.	10.8	7.5			10			0	0	overcast	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.70	754.4	29.87	758.7	76.1	24.5	84	ssw.	6.0	2.7			10 s		sw.	0.030	0.4	cloudy	M. Fojima.
Nagasaki, I. M. Obs'y	29.47	748.0	29.67	753.5	77.8	25.4	92	sw.	20.4	9.1			10 s		sw.	1.070	27.2	overcast	
Nemuro	30.10	764.5	30.17	766.3	69.5	20.8	97	calm	0	0		10	0			0	0	cloudy	
Niigata	29.81	757.2	29.84	757.9	77.8	25.4	88	se.	3.3	1.4		3 ck	4 cks	s.	s.	0	0	cloudy	M. Morita.
Nobiru	29.85	758.2	29.87	758.6	77.6	25.3	92	sse.	17.5	7.8			10 s			0	0	covered	H. Midzushima.
Osaka	29.83	757.7	29.84	757.9	70.0	24.4	81	wsw.	7.5	3.3			10 n			0.155	3.9	light rain	
Sapporo					71.0	21.7	79	se.	1.8	0.8			10			0	0	covered	
Tokei Obs'y, Yeddo	29.78	750.4	29.85	758.2	75.9	24.4	89	ssw.	8.2	3.7		7cs;ck	0	s.		0	0	fair	The Staff.
Wakayama	29.84	757.9	29.89	759.2	74.2	23.4	88	s.	5.1	2.3			10			0.550	14.1	raining	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.89	759.2	30.08	764.0	72.0	22.2	65	ese.	14.5	6.5			8 ks;k		sse.	0.05	1.3	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	602.1	29.92	760.1	60.6	15.9	87	calm	0	0		0	8k;kn		e.	0	0	cloudy	Prof. Vicente Fernandez.
Leon.†	24.37	619.0	30.01	762.2	61.5	16.4	85	nnw.			1	10 c	0	w.		0	0	covered	Prof. M. Leal.
Mazatlan	29.70	754.5	29.96	761.0	77.5	25.3	88	ne.	1.6	0.8		0	6 ks;n		sw.	0.039	1.0	threatening	F. Quijano, C. E.
Mexico, Central Obs'y	23.14	587.8	30.15	765.8	55.9	13.3	89	calm			0	3 ck	4 ks	e.		0.059	1.5	cloudy	The Staff.
Morelia	24.25	616.0	30.23?	770.3?	59.4	15.2	61	e.			3	2	2	s.	s.	inap.	inap.	½ cloudy	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.96	608.7	29.94	760.4	60.4	15.8	92	w.			1	2 c	1 s	wsw.		0	0	clear	M. V. de Leon, M. E
Puebla, Catholic Institute	23.44?	594.9?	30.19	766.7	54.9	12.7	87	calm			0		10		n.	0.800?	19.3?	covered	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	22.58	573.4	30.14	765.5	56.7?	14.5?	88	n.	5.0	2.2		9 c	0	w.		0	0	very cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.35	745.5	29.35	745.5	62.8	17.1		wsw.			8					0.197	5.0		
Groningen	29.15	740.4	29.21	741.8	59.9	15.5		sw.			4					0.405	11.8		
Helder	29.12	739.7	29.12	739.7	59.4	15.2		ssw.			6					0.051	1.3		
Hellevoetsluis	29.29	744.0	29.29	744.0	60.3	15.7	68	wsw.			6					0.157	4.0		
Utrecht	29.24	742.8	29.29	744.0	61.0	16.1	67	sw.			6		8			0.319	8.1	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.04	737.6	29.10	739.2	64.4	18.0	65	wnw.	4	2			5			0.079	2.0		
Brono	29.23	742.4	29.27	743.4	74.1	23.4	48	se.	9	4			3			0.039	1.0		
Christiania	29.09	738.9	29.23	742.4	63.5	17.5	77	ene.	4	2			6			0.228	5.8	raining	
Gjesvær	29.58	751.3	29.60	751.9	69.4	20.8		calm			0		0						
Lodingen	29.33	745.0	29.38	746.2	68.2	20.1	64	ene.			2		7			0	0		
PORTUGUESE.																			
Angra, Azores					77.4	25.2	85	wnw.	6.9	3.1			3			0	0		Dr. J. A. Sampaio.
Campo Major	28.88	733.5	29.80	757.0	95.2	35.1	28	nw.	3.8	1.7			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	29.97	761.3	30.06	763.5	75.7	24.3	67	sw	3.8	1.7			9			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.60	751.8	29.95	760.6	74.7	23.7	54	n.	23.0	10.3			1			0	0		The Staff.
Ponta Delgada, Azores	30.25	768.4	30.32	770.2	76.3	24.6	66	ne.	8.1	3.6			4			0	0		
Saint Paul de Loando	29.70	750.0	29.97	761.2	72.0	22.2	82	nw.			1		1	s.		0	0		
Serra da Estrella	25.31	642.9	29.82	757.3	71.2	21.8	28	nw.	14.3	6.4			1			0	0		
RUSSIAN.																			
Akmolinski	28.71	729.3	29.73	755.2	77.7	25.4	37	calm	0	0		0	0			0	0		Major K. Lasarew.
Archangel	29.00	751.7	29.01	752.2	68.2	20.1	81	ene.	4	2		0	3 ks			0	0		Capt. Sselliwerstow.
Astrakhan	29.80	750.7	29.71	754.6	90.0	32.2	34	se.	9	4		0	1 s			0	0		Capt. Wisganow.
Barnaul	29.49	749.1	29.98	761.6	59.5	15.3	40	calm	0	0			0			0	0		Meteorological Obs'y.
Dorpat	29.28	743.6	29.51	749.5	69.8	21.0	51	sw.	7	3		cs	9 k			0	0		Observatory.
Ekaterinburg	28.71	729.2	29.01	752.2	77.0	25.0	50	sw.	9	4		c	7 n			0	0		Meteorological Obs'y.
Irkutsk																			
Kasan	29.39	746.6	29.65	753.0	81.1	27.3	43	wsw.	9	4		0	0 k			0	0		Observatory.
Kertch	29.01	752.2	29.63	752.7	82.2	27.9	58	sw.	31	14		0	7 ks			0	0		Lagorio & Sastyrez.
Kieff	28.97	735.8	29.60	751.7	52.7	11.5	99	nw.	16	7			10 n					raining	Observatory.
Lugan	29.35	745.5	29.54	750.4	85.6	29.8	48	sse.	18	8			7			0.008	0.2		Meteorological Obs'y.
Moscow	29.13	739.9	29.58	751.2	72.3	22.4	67	sw.	7.8	3.5		0	5 ks						Meteorological Obs'y.
Nikolaiev	29.67	753.5	29.74	755.3	64.8	18.2	70	wnw.	22	10			10 n			0.205	5.2		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.82	757.3	29.96	760.9	72.9	22.7	78	calm	0	0		0	3 k			0	0	lunar corona	Physical Observatory.
St. Petersburg	29.47	748.5	29.48	748.9	69.1	20.6	76	se.	7	3			10 n			0.673	17.1		Central Physical Obs'y.
Semipalatinsk	29.30	744.3	29.94	760.4	69.8	21.0	29	nne.	9	4			0			0	0		Major Lasarew
Tashkend, Laboratory	28.22	716.8	29.68	753.8	86.9	30.5	39	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.33	719.5	29.63	752.5	98.1	36.7	27	se.	9	4		0	1 k			0	0		Physical Observatory.
Vladivostock	29.79	750.7	29.86	758.4	69.4	20.8	93	n.	9	4			10 n						
Warsaw	29.29	743.9	29.70	754.3	64.9	18.3	61	wsw.	16	7		0	8 k						Astronomical Obs'y.
Wilna	29.21	741.9	29.61	752.2	64.4	18.0	70	sw.	4	2			5			0	0		Berg, Assistant.
Yeniseisk	29.71	754.7	30.00	761.9	51.6	10.9	72	w.	4	2			10			0.130	3.3		M. O. Marks.
SCOTTISH.																			
Monach Lt.			29.24	742.7	58	14.4	93	nw.			6		10			0.1	3.	overcast	J. Youngclause.
North Unst			29.10	740.7				nw.			3		8						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.74	755.4	29.84	758.0	80.6	27.0	70	sw.	3.4	1.5		0	3			0	0	almost clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.94	760.4	30.00	761.9	70.0	21.1	81	nw.	2.2	1.0			10			0.031	0.8	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.02	686.3	29.84	758.0	76.5	24.7	52	ne.	3.1	1.4		0	1			0	0	almost clear	Domingo Martin.
Madrid, Royal Obs'y	27.70	703.6	29.74	755.4	92.1	33.4	33	sw.	11.0	4.9		0	0			0	0	clear	The Staff.
Marcia, Met. Obs'y	29.72	754.8	29.85	758.1	86.9	30.5	50	sse.	3.8	1.7		0	0			0	0	clear	Olayo Diaz, Director
Oviedo	29.19	741.4	30.00	763.4	66.2	19.0	91	e.	4.1	1.8		0	6 k			0.043	1.1		Prof. G. L. Frades.
Santiago, Met. Obs'y	29.11	739.5	30.00	762.0	62.2	16.8	77	n.	13.6	6.1			10			0.008	0.2	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.97	761.2	30.03	762.8	79.5	26.4	84	e.	1.3	0.6		2c;ck;as	1 k	ene.	e.	0.02	0.6	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.5	29.92	759.9	81.1	27.3	81	n.	0	0		2 ck	6 ks		e.	0	0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.82	757.3	29.91	759.8	76.3	24.6	72	s.	11.1	4.9		0	2		s.	0	0		Capt. C. Pujazon R. N.
San Juan de Porto Rico, W.I	29.91	759.7	30.00	762.0	80.6	27.0	91	s.	2.2	1.0		1 cs	1 k	e.	s.	0.236	6.0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.84	757.9	29.97	761.2	80.1	26.7	75	wsw.	11.7	5.2			10 kn		w.	0.01	0.3	stormy	José L. Yrastorza.
SWEDISH																			
Haparanda	29.50	749.3	29.54	750.3	70.5	21.4	75	calm			0		5			0	0		
Umea	29.39	746.4	29.44	747.7	67.6	19.8	70	se.			2		8			0.118	3.0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
SWEDISH—Continued.																			
Hernosand	29.33	745.0	29.38	746.3	66.6	19.2	75	e.			2		10			0	0		
Stockholm	29.08	738.7	29.26	743.2	61.2	16.2	87	s.			2		10			0.673	17.1	raining	
Wisby	29.28	743.6	29.34	745.1	64.8	18.2	67	sw.			4		5			0.346	8.8		
Sub-series.																			
Upsala	29.17	740.9	29.26	743.1	57.9	14.4	94	ne.	7.8	3.5			9		ne.	0.177	4.5	raining	S. G. Fineman.
SWISS.																			
Geneva	28.39	721.2	29.75	755.6	79.2	26.2	29	sw.			7		0			0	0	clear	The Observatory
TURKISH.																			
Constantinople			29.89	759.2	73.4	23.0	48	ne.	12	5.5			0			0	0		The Observatory.
Valona			30.06	763.4	82.8	28.2		sw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.80	757.0	84.7	29.3	54	wnw.			1	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.02	762.5	30.10	764.5	69	20.6	76	s.	6	2.7			10 s		s.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.35	745.5	29.99	761.7	64	17.8	100	nw.	4	1.8			10 s			0.37	9.4	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.06	636.5	29.78	756.4	62	16.7	93	e.	3	1.3			10 s			1.26	32.0	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.22	691.4	29.97	761.2	55	12.8	64	se.	4	1.8		0	3 s		sw.	0	0	clear	B. O. Lenoir.
Atlanta, Georgia	29.03	737.3	30.18	766.6	69.0	20.6	78	sw.	2	0.9		0	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	30.09	764.3	30.10	764.5	69	20.6	87	w.	6	2.7		7 c;cs	0	w.		0.09	2.3	fair	Jas. M. Watson.
Augusta, Georgia	30.02	762.5	30.21	767.3	69	20.6	84	calm	0	0		1 k	0	sw.		0	0	clear	John Healy.
Baltimore, Maryland	30.09	764.3	30.14	765.5	69	20.6	90	w.	3	1.3			10s;fg		w.	0.32	8.1	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.10	764.5	30.12	765.0	68.0	20.0	90	w.	4	1.8		3 c	3 k		s.	0.19	4.8	fair	G. A. Hill.
Bennett, Fort, Dakota	28.43	722.1	29.97	761.2	59	15.0	93	calm	0	0			10 s			0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.26	692.4	30.04	763.0	57	13.9	64	calm	0	0		0	2 k			0	0	clear	S. Wheaton.
Behring Island, Behring Sea	30.20	767.1	30.22	767.6	52.7	11.5		s.	9	4.0		0	8 k			0.02	0.5	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.19	716.0	29.94	760.5	64	17.8	90	se.	2	0.9		0	hz.			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.12	765.0	30.15	765.8	67	19.4	84	calm	0	0		2 c	0	nw.		0	0	clear	J. T. Elker.
Boise City, Idaho	27.21	691.1	29.96	761.0	57	13.9	60	n.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.99	761.7	30.14	765.5	66.0	18.9	74	w.	5	2.2		4 c	hz.			0	0	fair	O. B. Cole.
Brownsville, Texas	29.92	760.0	29.96	761.0	78.8	26.0	82	se.	4	1.8		2 cs	3 ks			0	0	fair	M. McCarty.
Buffalo, New York	29.25	742.9	29.98	761.5	71	21.7	90	sw.	6	2.7			10s;fg		sw.	0.06	1.5	threatening	Clarence Weaver.
Buford, Fort, Dakota	27.94	709.7	29.88	758.9	67	19.4	61	s.	4	1.8		0	hz.		calm	0	0	clear	A. H. Bell.
Burlington, Vermont	29.76	755.9	30.05	763.3	64.5	18.1	86	s.	17	7.6			10 s		s.	0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.74	755.4	30.13	765.3	73.8	23.2	92	s.	3	1.3		5 ck	0	s.		0	0	fair	W. H. Ray.
Campo, California	27.43	696.7	29.93	760.2	48.4	9.1	86	w.	2	0.9		0	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	30.08	764.0	30.10	764.5	67	19.4	90	s.	10	4.5		2 ck	7 s	nw.		0.48	12.2	cloudy	A. K. Alderson.
Cape May, New Jersey	30.09	764.3	30.12	765.0	70.0	21.1	84	s.	12	5.4		0	7 s		s.	0.08	2.0	fair	W. E. Smith.
Cape Mendocino	29.47	748.5			53	11.7	100	n.	25	11.2			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	30.12	765.0	30.14	765.5	76	24.4	82	ne.	6	2.7		4 ck	3 s	w.		0	0	fair	F. W. Mixer.
Champaign, Illinois	29.26	743.2	30.05	763.3	72.5	22.5	86	sw.	6	2.7			9 s		w.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.12	765.0	30.17	766.3	72	22.2	82	ne.	4	1.8		3 c	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.29	744.0	30.12	765.0	72.0	22.2	71	sw.	1	0.4		0	hz.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.38	746.2	30.19	766.8	66.0	18.9	93	sw.	2	0.9		0	fg.			0	0	clear	B. L. Goulding.
Cheyenne, Wyoming	24.16	613.7	29.86	758.4	47.2	8.4	80	nw.	4	1.8		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.31	744.5	30.00	762.0	73.7	23.2	85	sw.	4	1.8		9 k	0	w.		1.69	42.9	cloudy	J. Mitchell.
Chincoteague, Virginia	30.08	764.0	30.10	764.5	69	20.6	84	s.	8	3.6		10 cs	0	w.		0.03	0.8	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.46	748.3	30.10	764.5	75	23.9	85	sw.	4	1.8		8 c;cs	0	sw.		0	0	cloudy	J. F. Harrold.
Cleveland, Ohio	29.31	744.5	30.03	762.7	70.5	21.4	87	s.	5	2.2			10 s		nw.	0.31	7.9	cloudy	J. B. Newlin.
Coleman City, Texas	28.23	717.0	29.97	761.2	68	20.0	90	e.	4	1.8			10 n			0.17	4.3	light rain	L. Dorman.
Columbus, Ohio	29.22	742.2	30.06	763.5	71	21.7	84	sw.	4	1.8			10 s		w.	0.04	1.0	cloudy	D. Cuthbertson.
Concho, Texas	28.09	713.5	29.95	760.7	71	21.7	90	e.	4	1.8		0	9 s		s.	0	0	cloudy	W. W. McConihe.
Custer, Fort, Montana	26.79	680.5	29.85	758.2	57	13.9	60	w.	2	0.9		0	2 s		calm	0	0	clear	W. B. Lamar.
Davenport, Iowa	29.39	746.5	30.02	762.5	73	22.8	90	w.	2	0.9		0	hz.		calm	inap.	inap.	clear	R. R. Martin.
Davis, Fort, Texas	25.18	639.6	29.83	757.7	64	17.8	100	sw.	4	1.8			10 n		sw.	1.00	25.4	light rain	J. Williams.
Dayton, Washington T'y	28.33	719.6	30.04	763.0	56.8	13.8	84	sw.	1	0.4		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.46	646.7	29.89	759.2	57	13.9	62	n.	6	2.7		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					70	21.1	71	se.	5	2.2		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.11	764.8	30.13	765.3	69	20.6	78	sw.	12	5.4		0	8 ks		sw.	0.10	2.5	cloudy	T. S. Townsend.
Denison, Texas	29.25	742.9	30.03	762.7	67.8	19.9	90	calm	0	0		4 cs	0			0.04	1.0	fair	J. McGlone.
Denver, Colorado	24.84	630.9	29.86	758.4	57.0	13.9	62	s.	5	2.2		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.14	740.1	30.02	762.5	68	20.0	84	w.	1	0.4		0	3 s		w.	0	0	clear	F. W. Conrad.
Detroit, Michigan	29.31	744.5	30.00	762.0	72.0	22.2	90	sw.	4	1.8			10 s		w.	1.06	26.9	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.43	696.7	29.91	759.7	70	21.1	84	sw.	8	3.6			10 s			0.92	23.4	cloudy	W. M. Mattingly.
Dubuque, Iowa	29.32	744.7	30.02	762.5	70.8	21.6	90	sw.	2	0.9		6cs;ck	fg.	nw;w		0.02	0.5	fair	J. Harvey Smith.
Duluth, Minnesota	29.31	744.5	30.03	762.7	68	20.0	90	ne.	2	0.9		0	0			0	0	clear	N. B. Conger.
Eagle Pass, Texas	29.19	741.4	29.98	761.5	75.1	23.9	85	se.	5	2.2		0	1 s			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.34	643.6	29.89	759.2	55	12.8	49	calm	0	0		3 k	3 s	sw.	sw.	0	0	fair	J. M. Clifford.
Eastport, Maine	30.04	763.0	30.11	764.8	54.0	12.2	80	calm	0	0		0	hz			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.28	692.9	29.92	760.0	64	17.8	73	calm	0	0		6 k	0			0	0	fair	W. J. Cundall.
El Paso, Texas	26.25	666.7	29.85	758.2	66	18.9	100	e.	1	0.4			10 n		e	0.76	19.3	cloudy	J. F. Marshall.
Erie, Pennsylvania	29.29	744.0	30.00	762.0	71	21.7	94	calm	0	0			10 s		w.	0.02	0.5	cloudy	Peter Wood.
Escanaba, Michigan	29.38	746.2	30.02	762.5	64.5	18.1	92	n.	9	4.0			10 s		n.	0.08	2.0	cloudy	George Heathcote.
Fredericksburg, Texas	28.29	718.6	30.00	762.0	71	21.7	97	sw.	3	1.3			10 ks		s.	0	0	cloudy	Frank Halwegler.
Galveston, Texas	29.98	761.5	30.03	762.7	81	27.2	79	s.	9	4.0		2 cs	4 ks		sw.	0	0	fair	E. O'C. Macinerney.
Grand Haven, Michigan	29.34	745.2	29.99	761.7	71.5	21.9	94	sw.	3	1.3		0	4 s		nw.	0.18	4.6	fair	W. A. Reid.
Grant, Fort, Arizona	25.31	642.9	29.88	758.9	59.9	15.5	93	s.	4	1.8		0	5 s			0.48	12.2	fair	Robert C. Lord.
Hatteras, North Carolina	30.11	764.8	30.13	765.3	72	22.2	82	ne.	4	1.8		3 ck	7 s	w.	sw.	0.04	1.0	cloudy	R. M. Crawford.
Helena, Montana	25.89	657.6	29.98	761.5	68	20.0	40	sw.	4	1.8		4 k	0			0	0	fair	N. C. Smith.
Henrietta, Texas	29.09	738.9	30.09	764.3	69.0	20.6	84	se.	2	0.9			10 s			0.07	1.8	cloudy	J. W. Byram.
Huron, Dakota	28.63	727.2	29.97	761.2	64.1	17.8	93	se.	3	1.3		2 cs	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.30	744.2	30.07	763.8	73	22.8	84	sw.	3	1.3		2 ck	5 s	w.	sw.	0	0	fair	O. Schutze
Indianola, Texas	29.98	761.5	30.02	762.5	78.2	25.7	91	s.	5	2.2		4 cs	2 ks	ne.	s.	0.43	10.9	fair	I. A. Reed.
Jacksboro, Texas	28.87	733.3	29.99	761.7	68	20.0	90	se.	1	0.4		0	8 ks		sw.	0.08	2.0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.10	764.5	30.14	765.5	73	22.8	84	ne.	4	1.8		0	0			0.01	0.3	clear	J. W. Smith.
Keogh, Fort, Montana	27.41	696.2	29.84	757.9	68	20.0	53	se.	4	1.8		0	3 s			0	0	clear	A. Schneider.
Keokuk, Iowa	29.38	746.2	30.01	762.2	76.5	24.7	81	calm	0	0		0	0			0	0	clear	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	82.0	27.8	74	e.	11	4.9		3 c	2 k		e.	0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.13	765.3	30.15	765.8	71	21.7	83	s.	10	4.5		2 c	2 s;hz			0.15	3.8	fair	E. A. Beals.
Knoxville, Tennessee	29.18	741.2	30.19	766.8	67.3	19.6	97	calm	0	0		4 k	fg.			0	0	fair	J. A. Cody.
La Crosse, Wisconsin	29.27	743.4	30.02	762.5	68	20.0	84	n.	1	0.4			fg.			0	0	dense fog	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.17	740.9	30.03	762.7	70	21.1	78	s.	1	0.4		2 ck	1 k	sw.		0	0	clear	A. W. Browne.
Lewiston, Idaho	29.20	741.7	30.01	762.2	68.5	20.3	51	se.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.77	756.1	30.08	764.0	73	22.8	100	se.	1	0.4			hz;fg.			0	0	dense haze	W. U. Simons.
Los Angeles, California	29.61	752.1	30.00	762.0	59	15.0	93	w.	4	1.8		0	0			0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.54	750.3	30.09	764.3	74	23.3	82	sw.	4	1.8		3 k	0			0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.44	747.8	30.11	764.8	68.2	20.1	84	calm	0	0		0	0			0	0	clear	Lewis Duane.
Mackinaw City, Michigan	29.38	746.2	30.02	762.5	63.0	17.2	98	nw.	5	2.2			10 s			0.53	13.5	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.13	765.3	30.14	765.5	72	22.2	84	n.	4	1.8		10 c	c			0	0	cloudy	F. P. Chaffee.
Madison, Wisconsin	29.04	737.6	30.02	762.5	70	21.1	90	nw.	3	1.3		3 c	0	w.		inap.	inap.	fair	C. A. Shaw.
Maginnis, Fort, Montana	25.65	651.5			66	18.9	58	nw.	14	6.3		6 cs	0	w.		0	0	fair	H. W. Dodge.
McKavett, Fort, Texas	27.80	706.1	30.01	762.2	72	22.2	84	se.	12	5.4		0	0			0	0	clear	J. E. Thatcher.
Marquette, Michigan	29.34	745.2	30.05	763.3	62	16.7	93	nw.	6	2.7			10 s		nw.	0.13	3.3	cloudy	J. Gilligan.
Memphis, Tennessee	29.77	756.1	30.10	764.5	74	23.3	90	se.	3	1.3			10 s		se.	0.01	0.3	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.27	743.4	30.00	762.0	70	21.1	90	nw.		3.1		6 c	0	w.		0.34	8.6	fair	W. Line.

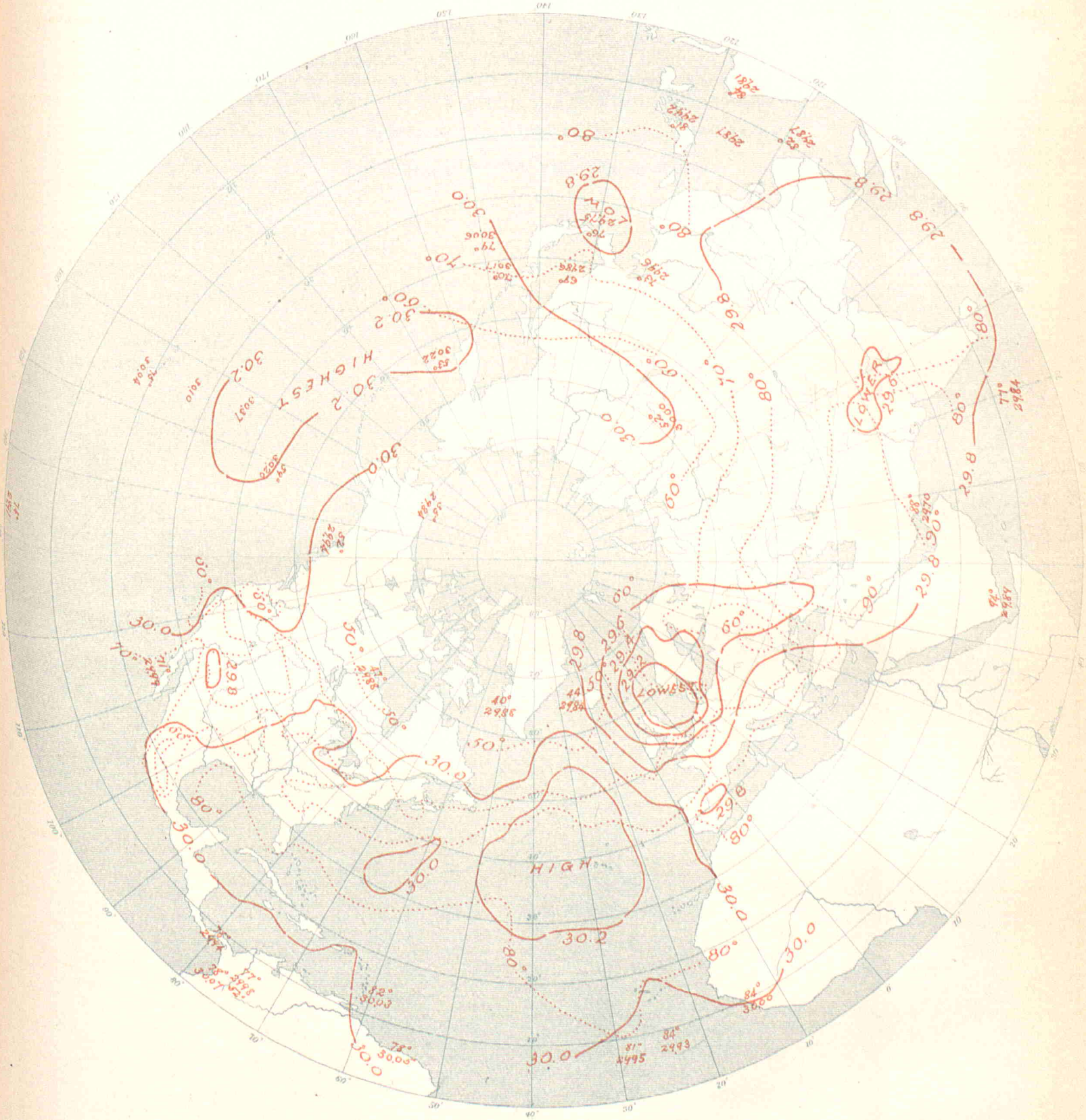
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.81	681.0	30.03	762.7	51	10.6	48	sw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	30.09	764.3	30.13	765.3	74.5	23.6	90	ne.	3	1.3	.....	8cs;ck	0	sw.	.....	inap.	inap.	cloudy	C. A. Read.
Montgomery, Alabama	29.92	760.0	30.15	765.8	72.0	22.2	76	e.	1	0.4	.....	4 k	0	w.	.....	0	0	fair	J. B. McLaughlin.
Moorhead, Minnesota	29.03	737.3	30.00	762.0	61.1	16.2	93	se.	4	1.8	.....	.....	fg.	.....	.....	0	0	dense fog	H. Bessant.
Morgantown, W. Virginia	29.13	739.9	30.13	765.3	66.0	18.9	90	calm	0	0	.....	hz.	5 s	.....	.....	0	0	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.01	609.8	30.09	764.3	44.0	6.7	86	w.	5	2.2	.....	3 c	sk.	nw.	w.	0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.57	751.1	30.13	765.3	69.5	20.8	90	se.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	L. N. Jesunofsky.
New Haven, Connecticut	30.02	762.5	30.14	765.5	65	18.3	90	sw.	3	1.3	.....	.....	10 s	.....	s.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.11	764.8	30.16	766.1	68	20.0	90	calm	0	0	.....	6 k	0	s.	.....	0	0	fair	J. G. Lynch.
New Orleans, Louisiana	30.02	762.5	30.08	764.0	78.0	25.6	90	e.	1	0.4	.....	7 c	sk.	sw.	.....	0.08	2.0	fair	L. Dunne.
Newport, Rhode Island	30.10	764.5	30.15	765.8	66.0	18.9	87	sw.	2	0.9	.....	1 c	1 s	nw.	sw.	0	0	clear	W. McGillivray.
New York, New York	29.95	760.7	30.12	765.0	68	20.0	90	e.	6	2.7	.....	.....	10 s	.....	.....	0.24	6.1	cloudy	J. B. Merrill.
Norfolk, Virginia	30.07	763.8	30.10	764.5	68	20.0	93	s.	4	1.8	.....	6 ck	fg;sk	.....	.....	0.25	6.3	fair	Wm. Davis.
North Platte, Nebraska	27.10	688.3	29.90	759.4	66.6	19.2	83	e.	4	1.8	.....	0	7 s	.....	.....	0	0	fair	E. F. Brady.
Olympia, Washington T'y	30.11	764.8	30.15	765.8	51.0	10.6	86	calm	0	0	.....	8 ck	0	n.	.....	0	0	cloudy	J. Dascomb.
Ogalamie, Pt. Barrow, Alas.	29.82	757.4	29.84	757.9	34.5	1.4	100	ese.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	P. H. Ray.
Omaha, Nebraska	28.87	733.3	30.01	762.2	70.8	21.6	82	sw.	2	0.9	.....	4 c	2s;fg	.....	.....	0.23	5.8	fair	A. Pollak.
Oswego, New York	29.67	753.6	29.99	761.7	67.0	19.4	91	se.	4	1.8	.....	.....	10 s	.....	w.	0.24	6.1	cloudy	S. W. Beall.
Palestine, Texas	29.54	750.3	30.08	764.0	70.0	21.1	90	e.	5	2.2	.....	4 ck	0	sw.	.....	0.03	0.8	fair	L. M. Pindell.
Pensacola, Florida	30.09	764.3	30.12	765.0	74.2	23.4	94	ne.	2	0.9	.....	4 cs	3 s	w.	.....	2.32	58.9	fair	M. McGauran.
Philadelphia, Pa.	30.03	762.7	30.13	765.3	66	18.9	93	se.	4	1.8	.....	.....	10s;fg	.....	.....	0.21	5.3	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.03	458.0	29.82	757.4	33	0.6	85	nw.	3	1.3	.....	0	0	.....	.....	0	0	clear	L. M. Dey.
Pioche, Nevada	24.12	612.6	29.82	757.4	61.2	16.2	50	n.	3	1.3	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.25	742.9	30.04	763.0	70.8	21.6	76	s.	2	0.9	.....	.....	10 s	.....	sw.	0	0	cloudy	J. B. Turton.
Poplar River, Montana	27.79	705.9	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.07	763.8	30.08	764.0	78.1	25.6	91	se.	3	1.3	.....	0	6 k	.....	se.	0.74	18.8	fair	M. Hermann.
Port Huron, Michigan	29.31	744.5	29.97	761.2	68.8	20.4	95	nw.	1	0.4	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	W. O. Bailey.
Portland, Maine	30.05	763.3	30.10	764.5	62.0	16.7	78	w.	3	1.3	.....	hz.	hz.	.....	.....	0	0	light haze	W. W. Eichelberger.
Portland, Oregon	30.06	763.5	30.13	765.3	58.0	14.4	80	calm	0	0	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	73	22.8	85	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	F. S. Coburn.
Prescott, Arizona	24.81	630.2	29.79	756.7	56	13.3	90	sw.	2	0.9	.....	.....	10 s	.....	sw.	0.38	9.7	cloudy	J. McN. Wright.
Provincetown, Mass.	30.11	764.8	30.14	765.5	68	20.0	84	sw.	3	1.3	.....	0	2 s	.....	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.06	763.5	30.07	763.8	77	25.0	74	ne.	10	4.5	.....	4 c	0	calm	.....	0	0	fair	W. J. Evans.
Red Bluff, California	.....	.....	.....	.....	.....	.....	.....	n.	.....	.....	1	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.78	756.4	30.02	762.5	78	25.6	82	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Rochester, New York	29.33	745.0	29.98	761.5	66	18.9	97	calm	0	0	.....	.....	10n;fg	.....	.....	0.12	3.0	light rain	E. W. McGann.
Roseburg, Oregon	29.55	750.6	30.09	764.3	65.5	18.6	65	n.	4	1.8	.....	0	8 ks	.....	n.	0	0	cloudy	J. J. Nanry.
Sacramento, California	29.84	757.9	29.91	759.7	61.6	16.4	72	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.49	749.0	30.07	763.8	73.0	22.8	98	s.	5	2.2	.....	hz.	0	.....	.....	0.29	7.4	clear	J. H. Webber.
St. Paul, Minnesota	29.17	740.9	30.01	762.2	67.0	19.4	93	e.	2	0.9	.....	9 cs	0	n.	.....	0.08	2.0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.10	739.1	29.95	760.7	60	15.6	93	se	5	2.2	.....	0	hz.	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.66	651.8	29.85	758.2	66	18.9	50	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.32	744.7	30.01	762.2	75.0	23.9	90	ne.	3	1.3	.....	.....	10 s	.....	e.	0	0	cloudy	T. J. Kenan.
San Diego, California	29.93	760.2	30.00	762.0	67.0	19.4	78	nw.	1	0.4	.....	0	fg.	.....	w.	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.34	745.2	30.00	762.0	72	22.2	84	sw.	6	2.7	.....	9 k	0	w.	.....	0.08	2.0	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.08	764.0	30.11	764.8	69.0	20.6	90	w.	8	3.6	.....	10 k	0	w.	.....	0.02	0.5	cloudy	B. A. Blundon.
San Francisco, California	29.92	760.0	29.99	761.7	54	12.2	93	calm	0	0	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gerom.
Santa Fé, New Mexico	23.34	592.8	29.83	757.7	52	11.1	86	ne.	11	4.9	.....	3 c	0	.....	.....	0.64	16.3	clear	H. U. Jones.
Savannah, Georgia	30.09	764.3	30.18	766.6	72	22.2	84	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	H. W. Ford.
Shaw, Fort, Montana	26.46	672.1	30.00	762.0	55	12.8	57	ne.	4	1.8	.....	2 k	0	sw.	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.82	757.4	30.04	763.0	74	23.3	97	nw.	1	0.4	.....	3 cs	5 s	.....	.....	0.06	1.5	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.81	731.8	29.99	761.7	64	17.8	93	ne.	2	0.9	.....	1 c	0	.....	.....	0.03	0.8	clear	T. Cleary.
Silver City, New Mexico	24.34	618.2	29.80	756.9	60	15.6	62	calm	0	0	.....	0	6 s	.....	calm	0.22	5.6	fair	J. B. Wallace.
Sitka, Alaska	29.88	758.9	29.94	760.5	51.5	10.8	93	e.	8	3.6	.....	.....	10 n	.....	e.	0.07	1.8	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.59	751.6	30.05	763.3	70.0	21.1	94	calm	0	0	.....	9 cs	0	s.	.....	0.35	8.9	cloudy	J. B. Campbell.
Smithville, North Carolina	30.12	765.0	30.16	766.1	70	21.1	84	nw.	7	3.1	.....	1 c	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	28.02	711.7	30.02	762.5	61	16.1	58	sw.	7	3.1	.....	1 k	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.39	746.5	30.05	763.3	76	24.4	83	sw.	5	2.2	.....	0	5 s	.....	sw.	inap.	inap.	fair	T. B. Jennings.
Springfield, Massachusetts	30.01	762.2	30.14	765.5	66.1	18.9	84	s.	2	0.9	.....	.....	10 s	.....	s.	0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.66	728.0	30.05	763.3	71	21.7	87	se.	5	2.2	.....	2 c	3 ks	.....	se.	0	0	fair	J. B. Marbury.
Starkville, Miss.	29.66	753.4	30.13	765.3	74	23.3	85	s.	4	1.8	.....	.....	fg.	.....	.....	inap.	inap.	dense fog	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.14	714.7	29.92	760.0	64	17.8	90	e.	3	1.3	.....	0	5 s	.....	.....	0	0	fair	W. Burrows.
Stockton, Fort, Texas	26.99	685.5	29.93	760.2	65.2	18.4	100	se.	8	3.6	.....	.....	10 n	.....	se.	2.25	57.1	heavy rain	J. O'Dowd.
Thomas Camp	27.21	691.1	29.83	757.7	69.5	20.8	88	calm	.....	.....	0	2 k	5 ks	n.	n.	0.31	7.9	fair	
Thatcher's Island, Mass.	30.07	763.8	30.12	765.0	60.3	15.7	79	s.	4	1.8	.....	3 c	0	w.	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.34	745.2	30.01	762.2	72	22.2	82	sw.	8	3.6	.....	.....	10 s	.....	.....	0.12	3.0	cloudy	A. Buell.
Tucson, Arizona	27.51	698.7	29.85	758.2	72	22.2	90	se.	2	0.9	.....	0	6 ks	.....	.....	0.11	2.8	fair	J. L. Whiteside.
Umatilla, Oregon	29.72	754.9	30.08	764.0	61	16.1	75	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	29.03	737.3	29.97	761.2	75	23.9	90	s.	6	2.7	.....	.....	10 s	.....	s.	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	65	18.3	73	n.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.85	758.2	30.09	764.3	74	23.3	97	se.	6	2.7	.....	0	9 s	.....	se.	0.06	1.5	cloudy	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.55	623.6	29.89	759.2	52.0	11.1	52	w.	5	2.2	.....	0	0	.....	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.02	762.5	30.13	765.3	67.1	19.5	100	ne.	2	0.9	.....	.....	10s;fg	.....	.....	0.28	7.1	cloudy	F. M. M. Beall.
West Las Animas, Colorado	26.10	662.9	29.85	758.2	58.5	14.7	78	nw.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.48	748.8	30.06	763.5	67.5	19.7	88	se.	3	1.3	.....	.....	10 ks	.....	se.	inap.	inap.	threatening	B. F. Hough.
Wilmington, N. Carolina	30.11	764.8	30.16	766.1	72	22.2	84	nw.	1	0.4	.....	2 c	0	w.	.....	0	0	clear	Samuel A. Haney.
Winnemucca, Nevada	25.68	652.3	29.91	759.7	56	13.3	37	n.	3	1.3	.....	0	2 s	.....	sw.	0	0	clear	J. Grover.
Yankton, Dakota	28.72	729.5	29.99	761.7	63	17.2	78	se.	1	0.4	.....	.....	fg.	.....	.....	0	0	dense fog	J. H. Atfield.
Yuma, Arizona	29.67	753.6	29.81	757.2	79.2	26.2	74	calm	0	0	.....	0	6 s	.....	.....	0	0	fair	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.08	560.8	.....	.....	51.5	10.8	75	sw.	4	1.8	.....	.....	10ks;s	.....	.....	0.01	0.3	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I.	30.02	762.5	30.03	762.7	82	27.8	82	se.	.....	.....	.....	1 k	5 ks	e.	e.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.04	763.0	30.07	763.8	78	25.6	86	calm	0	0	.....	.....	10 ks	.....	calm	1.80	45.7	cloudy	J. I. Plume.
Havana, Cuba	29.98	761.5	30.04	763.0	80	26.7	82	e.	2.4	1.1	.....	2 cs	1 k	ne.	ne.	0.05	1.3	fair	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	29.99	761.7	30.00	762.0	78.2	25.7	75	n.	1	0.4	.....	4 c	0	.....	.....	0	0	fair	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	75	23.9	.....	calm	.....	.....	0	4 ks	0	se.	.....	0.10	2.5	.....	S. M. Pike.
Navassa, W. I.	29.87	758.7	29.95	760.7	81	27.2	82	ne.	4	1.8	.....	2 cs	4 ks	ne.	e.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	86	se.	.....	.....	2	.....	8 ps	e.	.....	0.150	3.8	cloudy	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.42	747.3	29.98	761.5	77	25.0	89	calm	.....	.....	0	8 ck	2 ks	calm	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	77	25.0	98	ne.	.....	.....	1	0	4 ks	.....	ne.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.01	0.3	.....	W. J. Fisher.
St. Thomas, W. I.	30.02	762.5	30.15	765.8	81	27.2	88	se.	.....	.....	.....	2 c	4 k	.....	se.	0.33	8.4	fair	Aug. Wallos.
York Factory, B. A.	29.82	757.4	29.88	758.9	47.0	8.3	92	se.	17	7.6	.....	3 k	2 s	se.	se.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alexandra, Port Said, Egypt	29.86	758.4	80	26.7	72	wnw.			1		1							blue sky.
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.27	768.8	68.5	20.3	84	n.			1		1							blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.94	760.5	72	22.2		n.			4		3	n.						d. clouds.
H. M. S. Arab, N. 26° 10′, E. 56° 41′	29.59	751.6	89	31.7	76	s.			3		0					3	s.	blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.07	763.8	69.5	20.8		calm			0		0							blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	30.11	764.8	57	13.9	81	wsw.			3		4							d. clouds.
H. M. S. Diamond, S. 16° 57′, E. 158° 35′	30.03	762.7	73	22.8	81	se.			4–5		2	sw.				2	se.	d. clouds.
H. M. S. Dido, N. 17° 55′, W. 77° 00′	30.03	762.7	82	27.8		n.			1		0							blue sky.
H. M. Dock-Yard, Bermuda, W. I.	29.94	760.5	77	25.0	67	nw.			2–3		2	nw.						d. clouds.
H. M. S. Eclipse, N. 30° 13′ E. 32° 30′	29.73	755.1	89.5	31.9		n.			1		1							blue sky.
H. M. S. Fantome, N. 14° 36′, W. 62° 31′	29.99	761.7	85	29.4		se.			2		4	se.				1	se.	d. clouds.
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33′	29.76	755.9	77.5	25.3	86	ne.			2–4		7					1	nne.	squally.
H. M. S. Gannet, S. 2° 44′, W. 79° 53′	29.99	761.7	67.5	19.7	90	nw.			4		10	ne.						d. clouds.
H. M. S. Griffon, N. 47° 15′, W. 54° 00′	30.08	764.0	57.5	14.2	81	ssw.			2		2							d. clouds.
H. M. S. Iron Duke, N. 39° 40′, E. 128° 10′	29.85	758.2	70	21.1	100	ne.			1		8	nne.						d. clouds.
H. M. S. Lark, S. 10° 20′, E. 161° 50′	29.93	760.2	78.3	25.7	92	ese.			2		7					3	e.	showery.
H. M. S. Liffey, Coquimbo, Chili	30.08	764.0	57	13.9		ne.			1									raining.
H. M. S. Magpie, N. 35° 06, E. 129° 03′	29.75	755.6	76.0	24.4	79	ne.			2–3		8							misty.
H. M. S. Minotaur, Alexandria, Egypt	29.86	758.4	80	26.7	72	nw.			1		1							blue sky.
H. M. S. Northampton, N. 44° 58′, W. 61° 27′	30.07	763.8	62.5	16.9	88	nnw.			1		4	wnw.						d. clouds.
H. M. S. Orontes, N. 34° 50′ E. 18° 35′	29.90	759.4	79.5	26.4	95	wsw.			2		3	wsw.				3	wsw.	d. clouds.
H. M. S. Pegasus, N. 5° 53′, E. 116° 00′	29.81	757.2	84	28.9	83	nnw.			1–2		9							d. clouds.
H. M. S. Sappho, N. 20° 11′, W. 155° 52′	30.04	763.0	75	23.9	100	ne.			3–4		4							squally.
H. M. S. Swiftsure, Coquimbo, Chili	30.20	767.1	54	12.2	100	sw.			1		4	w.						misty.
H. M. S. Sylvia, Montevideo, Uruguay	29.89	759.2	58.7	14.8	93	nne.			3		0							blue sky.
H. M. S. Tenedos, N. 48° 23′ W. 53° 22′	30.01	762.2	60	15.6	82	ssw.			2		5							d. clouds.
H. M. S. Triumph, S. 24° 30′, W. 43° 46′	30.29	769.4	71	21.7	80	nne.			5–7		6	nne.				5	nne.	squally.
H. M. S. Woodlark, Jask, Persia	29.60	751.8	87.5	30.8	72	s.			2		0							blue sky.
Portuguese Naval																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.08	763.9	82.4	28.0	85				1		1					1	se.	blue sky.
Tamega, Macao, China	29.88	759.0	83.3	28.5	79	ssw.			3		8		ssw.	11 h'r	11 h'r			showery.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.01	762.2	76	24.4	91	ne.	2	0.9			10		ne.	0.06	1.5			light rain.
Navy Yard, Portsmouth, N. H	30.11	764.8	62	16.7	88	calm	0	0			0			0	0			hazy.
Naval Hospital, Yokohama, Japan*	29.75	755.6	78	25.6	86	ssw.			2		8		sw.	sll't	sll't			cloudy.
Adams, Mare Island, Cal			56	13.3	94	sw.			2		8			0	0	sm'h		fair.
Alaska, N. 3° 01′ W. 133° 27′	29.91	759.7	74	23.3	95	ese.			4		0			0	0	sm'h		clear.
Alliance, N. 43° 02′, W. 70° 32′	30.13	765.3	60	15.6	?	s.			0–1		2			0	0	sm'h		clear.
Ashuelot, Yokohama, Japan*	29.75	755.6	78	25.6	91	s.			2		8		s.					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.30	769.6	69	20.6	95	nne.	1	0.4			0			0	0	sm'h		clear.
Colorado, New York, N. Y	30.10	764.5	69	20.6	95	se.	3	1.3			10		calm	0.9	23.			overcast.
Constellation, Chesapeake Bay *	30.10	764.5	70	21.1	90	ssw.			2		10		calm					cloudy.
Essex, Coquimbo, Chili	30.17	766.3	62	16.7	61	nne.			1		5?		ne.			mod.	nne.	clear ?
Franklin, Norfolk, Va	30.11	764.8	69	20.6	90	sse.	4	1.8			8		nnw.	0.12	3.0			cloudy.
Galena, N. 6° 45′, W. 23° 15′	30.03	762.7	84	28.9	75	s.			4		2		sw.			mod.	ssw.	fair.
Hartford, N. 40° 12′, W. 24° 34′*	30.23	767.8	71	21.7	?	nne.			3		5		n.	light	light	sm'h		fair.
Independence, Navy Yard, Mare Island, Cal	30.00	762.0	55	12.8	100	sw.			4		10			0	0			cloudy.
Iroquois, Acupulco, Mexico	29.95	760.7	81	27.2	74	calm			0		2							clear.
Kearsarge, Portsmouth, N. H	30.11	764.8	62	16.7	100	calm			0		2							misty.
Lackawanna, Callao, Peru*	30.03	762.7	61	16.1	94	sse.			1		8							cloudy.
Lancaster, Villafranca, France*	29.85	758.2	79	26.1	95	ese.			3		2		se.					fair.
Marion, S. 34° 54′, W. 56° 13′	29.84	757.9	68	20.0	100	n.			5		2		e.	0	0			hazy.
Michigan, Lake Michigan	29.95	760.7	67	19.4	95	ne.			2		10			0	0	sm'h		foggy.
Minnesota, New York, N. Y	30.24	768.1	69	20.6	90	ene.	5	2.2			8		ne.					foggy.
Monocacy, N. 37° 27′, E. 126° 33′	29.79	756.7	78	25.6	73	nne.			3		8		e.					fair.
New Hampshire, Newport, R. I	30.16	766.1	67	19.4	79	sw.			1		5		ne.					fair.
Nipsic, N. 43° 40′, E. 7° 34′ *	29.83	757.7	77	25.0	73	ese.			3		2		wnw.			sm'h		fair.
Onward, Callao, Peru†	30.15	765.8	59	15.0	100	se.			1		8					sm'h		clear.
Palos, Kobe, Japan*	29.81	757.2	76	24.4	91	ssw.			4		10		n.			long	w.	cloudy.
Passaic, Washington, D. C			68	20.0	84	ne.			2		10		ssw.					cloudy.
Pensacola, Payta, Peru*	29.97	761.2	61	16.1	88	ese.	8	3.6			8							cloudy.
Portsmouth, Gibraltar, Mediterranean *	29.88	758.9	76	24.4	91	wnw.			2		2		ese.	0	0	sm'h		cloudy.
Powhatan, Norfolk, Va	30.10	764.5	69	20.6	95	s.			1		8					sm'h		clear.
Quinnebaug, Alexandria, Egypt*	29.82	757.4	80	26.7	87	nnw.			3		0							cloudy.
Ranger, Mare Island, Cal	30.01	762.2	59	15.0	82	sw.			2		10					sm'h		fair.
Richmond, Yokohama, Japan*	29.78	756.4	79	26.1	91	ssw.			3		8		sw.	0	0			foggy.
Saratoga, Gibraltar, Mediterranean	29.90	759.4	75	23.9	95	nw.			1		0			0	0			fair.
St. Louis, League Island, Pa	30.35	770.9	66	18.9	94	calm			0		0			0	0	sm'h		clear.
Swatara, N. 9° 15′, E. 108° 32′ *	29.67	753.6	82	27.8	79	s.			1		10			0.07	1.8			foggy.
Tennessee, N. 43° 02′, W. 70° 36′†	30.17	766.3	61	16.1	88	ssw.	5	2.2			5		s.			sm'h		fair.
Vandalia, Portsmouth, N. H*	30.09	764.3	64	17.8	89	calm			0		2			0	0			fair.
Wabash, Boston, Mass	30.12	765.0	63	17.2	89	wsw.	4	1.8			2		calm					fair.
Wachusetts, Fort Wrangle, Alaska†	30.23	767.8	51	10.6	100	e.			1		2		w.	0	0			clear.
Wyoming, Port Royal, S. C*	30.15	765.8	73	22.8	76	n.	9	4.0			10		calm			sm'h		rainy.
Yantic, N. 43° 03′, W. 70° 33′	30.14	765.5	62	16.7	88	wsw.			1		2		calm	0	0			clear.
MERCHANT MARINE.																sm'h		clear.
Allan Line.																		
S. S. Circassian, N. 54° 00′, W. 45° 15′*	29.85	758.2	53	11.7	100	se.			4		10			0.01	0.3	2	s.	foggy.
S. S. Grecian, Ismailia, Egypt *	29.81	757.2	91	32.8		n.			3		0			0	0			clear.
S. S. Nova Scotian, Saint John's, N. F.	30.07	763.8	58	14.4		var.					0							clear.
S. S. Polynesian, Liverpool, Eng*	29.20	741.7	56	13.3		w.			10		8		w.	12 h'r	12 h'r			cloudy.
S. S. Scandinavian, N 45° 27′, W. 51° 58′	29.80	756.9	64	17.8		sse.			2		10		sse.	0	0	cf'd	var.	drizzling.
S. S. Waldensian, N. 52° 01′ W. 40° 50′ *	30.05	763.3	56	13.3		sw.			4		10		sw.	rain	rain	short	cross	rain & fog.
American Steamship Company.																		
S. S. British Crown, N. 40° 34′ W. 59° 32′†	30.00	762.0	70	21.1		ne.			6		10		ne.	0	0	r'gh	nne.	overcast.
S. S. Indiana, Philadelphia, Pa †	30.08	764.0	82	27.8	95	e.			3		10		e.					overcast.
S. S. Lord Clive, N. 51° 01′ W. 11° 30′ *†	29.85	758.2				wnw.			6		4?		wnw.	sq'lls	sq'lls	high	nw.	cloudy.?
S. S. Lord Gough, Philadelphia, Pa	30.07	763.8	67	19.4		se.			3		10			7 h'r	7 h'r			cloudy.
S. S. Ohio, N. 46° 48′ W. 33° 51′ †	30.30	769.6	74	23.3	100	sse.			3		8		w.			sm'h	s.	rainy.
Amsterdam Line.																		
S. S. Stella, N. 41° 11′, W. 57° 36′	30.00	762.1	72.0	22.2		ne.			4		7		ne.	1½h'r	1½h'r	6	ene.	drizzling.
Anchor Line.																		
S. S. Bolivia, New York, N. Y.*†	30.10	764.5	76	24.4		s.			1		6			6 h'r	6 h'r			cloudy.
S. S. Devonia, N. 52° 43′, W. 26° 50′†	30.23	767.8	53	11.7		nw.			4		10		nw.			short	nw.	cloudy.
S. S. Dorian, N 40° 58′, W. 56° 20′*	29.82	757.4	69	20.6		ne.			7		10		ene.	12 h'r	12 h'r	h'vy	ne.	threatening.
Atlas Line.																		
S. S. Alene, Savanilla, U. S. C. †	29.91	759.7																
S. S. Alpin, N. 22° 46′, W. 74° 30′	29.97	761.2				n.			2		8		n.	0	0		n.	
British Meteorological Office.																		
Auckland, S. 44° 58′ E. 102° 02′	29.42	747.3	48	8.9	85	w.			6		9							raining.
S. Baroda, N. 21° 54′, W. 36° 37′	30.06	763.5	77.5	25.3	82	n.			5		6							d. clouds.
S. S. Basil, N. 15° 04′, W. 26° 29′	29.92	760.0	80	26.7	82	calm			0		10							overcast?
S. S. Cipero, N. 14° 27′, W. 58° 07′	30.06	763.5	82.7	28.2	79	se.			2		2							blue sky.
S. S. City of Agra, S. 39° 54′, E. 60° 04′	30.19	766.8	49	9.4	71	sw.			5		5							d. clouds.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
BRITISH METEOROLOGICAL.—Continued.																		
S. S. Gordon Castle, N. 50° 25′, W. 2° 21′	29.55	750.6	62	16.7	77	wsw.			6		5							raining.
S. S. Humboldt, River Platte, S. A.	29.86	758.4	61.0	16.1	88	n.			5		2							misty.
S. S. Minho, Buenos Ayres, Argentine Republic, S. A.	29.78	756.4	66	18.9	89	n.			5		0							misty.
S. Oamaru, N. 33° 50′, W. 35° 00′	30.34	770.6	76.0	24.4	76	ne.			4–5		3							d. clouds.
S. S. Rosetta, N. 6° 56′, E. 69° 02′	29.84	757.9	76.5	24.7	91	wnw.			5		10							overcast.
CALIFORNIA AND MEXICAN STEAMSHIP COMPANY.																		
S. S. Mexico, N. 34° 17′, W. 120° 28′*†	29.95	760.7	64	17.8	89	calm			0		fg.					sm'h		foggy.
CROMWELL LINE.																		
S. S. Hudson, N. 25° 50′, W. 80° 00′†	30.14	765.5	79	26.1		ene.			3		2		e.	0	0	light	e.	fair.
CUNARD LINE																		
S. S. Marathon, Lake Ismalia, Egypt	30.04	763.0	83	28.3		nw.			2		0			0	0	sm'h	nnw.	clear.
S. S. Scythia, N. 49° 46′, W. 27° 53′	30.23	767.8	59	15.0	87	w.			3		10		w.	0	0	slight	wnw.	gloomy.
GUION LINE.																		
S. S. Arizona, N. 40° 40′, W. 67° 50′	30.16	766.1	63	17.2		calm			0		0			0	0	long	e.	blue sky.
S. S. Wisconsin, N. 50° 45′ W. 29° 30′	30.24	768.1	50	10.0		nw.			4		10		nw.	0	0	mod.	wnw.	gloomy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Frisia, N. 47° 18′, W. 37° 00′*	30.26	768.6	76	24.4		s.			4		5		s.	0	0	mod.		foggy.
S. S. Herder, New York, N. Y.*	29.84	757.9	79	26.1		calm			0		10		se.	1 h'r	1 h'r			covered.
S. S. Silesia, N. 42° 56′, W. 60° 12′	30.10	764.5	64	17.8		nnw.			5					0	0	3	n.	fair.
S. S. Vandalia, N. 49° 04′ W. 10° 50′*	29.89	759.2	55.0	12.8		nw.			6		2		nw.	0	0	h'vy	nw.	squally.
JOHNSTON LINE.																		
S. S. St. Albans, N. 46° 59′, W. 28° —′ *†	30.57	776.5	60	15.6		wnw.			3		8		nw.	0	0	long	n.	
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 14° 00′, W. 38° 00′.*†	30.39	771.9	76	24.4		sse.			6		4		se.	0	0	long	se.	clear.
MAILLORY LINE.																		
S. S. City of San Antonio, N. 40° 17′, W. 73° 57′*†	30.27	768.8				wsw.			1					1 h'r	1 h'r	mod.	sse.	foggy.
S. S. Colorado, New York, N. Y.†	30.12	765.0	69	20.6		e.			1		3		e.	4 h'r	4 h'r			fair.
S. S. San Marcos, Galveston, Texas	30.05	763.3				se.												fine.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Naples, Italy*†	29.95	760.7	80	26.7	78	w.			3		2		w.	0	0			clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 47° 18′ W 22° 04′ †	30.32	770.1	64.4	18		nnw.			5		10		n.	0	0	r'gh	n.	threatening.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, West Point, Va	29.72	754.9				sw.			2		5		sw.	0	0			fair.
S. S. Glenapp, S. 12° 30′ W. 38° —†	30.05	763.3				sse.			4		4		se.	2 h'r	2 h'r	long	se.	raining.
MORGAN LINE.																		
S. S. Chalmette, New York, N. Y †	30.12	765.0	74	23.3		e.			2		8		se.	5 h'r	5 h'r			cloudy.
S. S. New York, N. 28° 16′, W. 80° 15′†	30.13	765.3	79	26.1		e.			3		3		se.			small	e.	clear.
NATIONAL LINE.																		
S. S. Denmark, London, England	29.42	747.3	67	19.4		wsw.			6		10		wsw.	6 h'r	6 h'r			squally.
S. S. Erin, N. 43° 09′ W. 43° 09′	30.27	768.8	76	24.4	82	s.			5		2		s.	0	0	sm'h		fine.
S. S. Helvetia, N. 52° 23′, W. 5° 50′	29.44	747.8	60	15.6		nw.			7		8		nw.	10 h'r	10 h'r	mod.	nw.	cloudy.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, N. 21° 00′, W. 79° 30′†	30.02	762.5	81	27.2		nne.			2		2			0	0	sm'h		hazy.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, N. 22° 31′ W. 85° 19′ †	30.06	763.5	85	29.4	87	ne.			2		8		e.	0	0			hazy.
S. S. City of Puebla, N. 39° 45′, W. 73° 50′†	29.92	760.0	79	26.1		sw.			6		10		n.			long	se.	cloudy.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 44° 58′, W. 55° 08′*	30.10	764.5	64	17.8		w.			2								ssw.	cloudy.
S. S. Maas, N. 49° 14′, W. 13° 20′*	29.84	757.9	61	16.1		w.			7							high		rainy.
NORTH GERMAN LLOYD																		
S. S. Donau, N. 42° 20′, W. 49° 16	30.19	766.8				sse.			4		6		sse.	shr's	shr's	mod.	sse.	fair.
S. S Elbe, N. 49° 50′, W. 13° 54′	29.92	760.0	59.9	15.5	78	sw.			6		5		nw.	0	0	cross	nw.	cloudy.
S. S. Gen. Werder, N. 45° 32′, W. 51° 29′	30.07	763.8				sse.			3		10			8 h'r	8 h'r	long	sw.	covered.
S. S. Graf Bismarck, S. 14° 33′, W. 38° 14′	30.34	770.6	77.0	25.0		ese.			4		5?		se.	2 h'r	2 h'r	long	se.	cloudy.?
S. S. Habsburg, N. 45° 45′, W. 36° 43′	30.20	767.1	64.4	18 0		ssw.			2		10		ssw.	1 h'r	1 h'r	mod.	ssw.	cloudy.
S. S. Ohio, N. 41° 41′, W. 49° 00′	30.18	766.6				sse.			6		2		s.	0	0	r'gh	sse.	fair.
S. S. Salier, Southampton, Eng	29.56	750.8	56.3	13.5		w.			6		5		w.	0	0	cross	w.	fair.
S. S. Strassburg, N. 49° 51′, W. 31° 00′	30.31	769.9	58.5	14.7	?	wnw.			3		10		nw.	0	0	sm'h		covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 46° 57′, E. 176° 40′†	29.94	760 5	51	10.6	100	var.			2–3		8		w.	0	0	mod.	w.	fair.
S. S. Belgic, Hong Kong, China†	29.98	761.5	82	27.8	79	w.			1		10		sw.	0	0			cloudy.
S. S. Coptic, N. 46° 06′, W. 149° 19′	30.20	767.1	59.0	15.0	97	w.			4		2		w.	12 h'r	12 h'r	3	w.	d. clouds.
S. S. Gaelic, Hong Kong, China†	29.83	757.7	85	29.4	96	wsw.			7		10		sw.					raining.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y†	30.17	766.3				ese.			1		8		se.	0	0			smoky.
S. S. Seminole, Savannah, Ga†	30.22	767.6	78	25.6	86	sw.			1		1		sw.	0	0			clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, N. 48° 13′, W. 123° 24′ †	30.22	767.6	53	11.7	86	w.			1		2		w.	0	0			fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 38° 45′, W. 123° 15′†.	29.98	761.5	59	15.0	94	nw.			3		10					light	sw.	misty.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal †	29.90	759.4	54	12.2	87	wnw.			2		10		w.					cloudy.
S. S. City of Chester, San Francisco, Cal			54	12.2	100	nw.			2		1?		nw.					cloudy.
S. S. Idaho, Victoria, B. C†	30.19	766.8	54	12.2	87	ne.			2		10		ne.	0	0			cloudy
S. S. State of California, Portland, Oregon†	30.17	766.3	57	13.9	87	calm			0		7							overcast.
S. S. Victoria, Nanaimo, Vancouver's Island†	30.10	764.5	55	12.8	80	se.			1					0	0	sm'h		overcast.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 1° 08′, W. 166° 46′.	29.85	758.2	80	26.7	91	ne.			2		10		ne.	2 h'r	2 h'r	mod.	ne.	clear.
S. S. City of New York, Sydney, N. S. W. †	30.35	770.9	59	15.0	82	w.			1		8		w.	1 h'r	1 h'r			cloudy.
S. S. City of Pekin, N. 32° 23′ W. 132° 56′†	29.99	761.7	77	25.0	?	ssw.			5		10		sw.	0	0	small	s.	cloudy.
S. S. City of Tokio, N. 37° 26′, E. 147° 30′ †	30.06	763.5	79	26.1	74	se.			1		2		s.	0	0	small	s.	fine.
S. S. Colima, Panama, Panama †	29.94	760.5	78	25.6	86	nw.			3		9		ne.	0	0			cloudy.
S. S. Colon, N. 28° 14′, W. 74° 02′ †	30.13	765.3	80	26.7		nne.			5		3		ne.	0	0	mod.	ne.	fair.
S. S. Costa Rica, N. 31° 40′ W. 118° 00′*	30.01	762.2	62	16.7	72	nw.			3		8		wnw.	0	0	light	nw.	cloudy.
S. S. Clyde, N. 25° 50′, W. 113° 55′†	29.99	761.7	71	21.7	85	nnw.			4		2		nnw.	0	0	long	nw.	clear.
S. S. Grenada, N. 24° 22′, W. 111° 56′†	29.92	760.0	74	23.3	86	wnw.			3		0			0	0	sm'h	wnw.	clear.
S. S. Zelandia, S. 34° 09′, E. 158° 13′	30.31	769.9	60	15.6		s.			3		5		w.			mod.	e.	fine.
QUEBEC S. S. COMPANY.																		
S. S. Bermuda, N. 27° 16′, W. 68° 01′†	30.05	763.3	78	25.6		nnw.			2		9		s., ne.	sh'rs	sh'rs	long	ne.	dull.
S. S. Muriel, N. 19° 09′, W. 63° 45′	30.09	764.3	85	29.4		ssw.			2		10			0	0	sm'h		overcast.
RED D LINE.																		
S. S. Caracas, N. 13° 40′ W. 66° 33′*†	30.00	762.0				ese.			2		1		se.	0	0	sm'h	se.	fine.
S. S. Valencia, N. 21° 48′, W. 68° 32′*†	30.22	767.6	86	30.0	72	calm			0		1		n.	2 h'r	2 h'r	h'vy	n.	fine.
RED STAR LINE.																		
S. S. Belgenland, N. 42° 35′, W. 48° 10′†	30.31	769.9	77	25.0	77	ssw.			6		8			0	0	mod.	n.	
S. S. Nederland, N. 42° 44′, W. 53° 51′†	29.89	759.2	69	20.6	95	ne.			4		8		ene.	4 h'r	4 h'r	sm'h	nne.	overcast.
S. S. Pennland, New York, N. Y	30.17	766.3				se.			5		10		n.	0	0			overcast.
S. S. Rhynland, N. 40° 40′ W. 60° 00′	30.11	764.8	72	22.2	67	wsw.			3		3		w.	0	0	r'gh	nnw.	fair.
S. S. Switzerland, N. 50° 40′ W. 0° 16′†	29.55	750.6				wnw.			7		8		wnw.	0	0	h'vy	w.	cloudy.
S. S. Vaderland, Antwerp, Belgium	29.47	748.5	62	16.7	72	wnw.			6		8		w.	8 h'r	8 h'r			cloudy.
S. S. Waesland, N. 49° 12′, W. 8° 03′	29.80	756.9	61	16.1	71	nw.			6		2		nw.	sh'rs	sh'rs	r'gh	nw.	clear.
ROTTERDAM LINE.																		
S. S. Edam, Amsterdam, Holland	29.84	757.9	62.5	16.9	97	sw.			7		8		ssw.	0	0			squally.
S. S. Schiedam, N. 45° 51′, W. 42° 00′	30.25	768.3	78.8	26.0	84	s.			6		3		sw.	0	0	long	ssw.	fair.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
Royal Mail Steam Packet Co.																		
S. S. Belize, Port Antonio, Jamaica, W. I.	30.04	763.0	83	28.3		s.			1		2		calm	0	0			clear.
State Line.																		
S. S. State of Florida, Glasgow, Scotland	29.18	741.2	63	17.2		w.			5		7		w.	4 h'r	4 h'r			raining.
S. S. State of Georgia, N. 49° 24′, W. 41° 06′†	30.14	765.5	63	17.2		ssw.			2		10			6 h'r	6 h'r			rainy.
Thingvalla Line.																		
S. S. Thingvalla, N. 42° 17′, W. 56° 37′†	30.34	770.6	67.1	19.5	?	nne.			5		10		nne.	2 h'r	2 h'r	r'gh	nne.	raining.
White Cross Line.																		
S. S. Plantyn, N. 47° 42′, W. 13° 04′	30.01	762.2	61	16.1					3–5		4					5	nw.	
White Star Line.																		
S. S. Adriatic, New York, N. Y *†	30.23	767.8	72	22.2	95	calm			0		10		se.	3 h'r	3 h'r			cloudy.
S. S. Britannic, N. 44° 18′, W. 45° 30′†	30.28	769.1	75	23.9	77	ssw.			5		5		ssw.	0	0	mod	sw.	d. clouds.
S. S. Celtic, Liverpool, England†	29.22	742.2	58	14.4	94	wsw.			6		10		wsw.	h'vy	h'vy			showery.
S. S. Germanic, N. 46° 05′, W. 47° 57′†	30.20	767.1	58	14.4		ene.			1		10		wsw.	24 h'r	24 h'r	light	wsw.	raining.
S. S. Republic, Queenston, Ireland†	29.71	754.6	57	13.9	69	wnw.			6		5		wnw.	sh'rs	sh'rs			d. clouds.
Wilson Line.																		
S. S. Otranto, N. 49° 26′ W. 46° 08′†	30.30	769.6	54	12.2		ssw.			3		10		sw.			short	s.	cloudy.
S. S. Romano. N. 39 47′, W. 59° 40′	29.89	759.2	72	22.2		nne.			6		10			0	0	h'vy	ene.	overcast.
S. S. Salerno, N. 49° 24′, W. 10° 18′*	29.56	750.8	74	23.3		wsw.			8		10		w.	0	0	h'vy	w.	
Winsor Line.																		
S. S. Catherine Whiting, Philadelphia, Pa.†	30.12	765.0	70	21.1		sw.			1				sw.	0	0			
Miscellaneous.																		
Bk. Adelaide, N. 19° 57′, W. 52° 41′*†	30.14	765.5	84	28.9		ene.			3		1		e.	0	0	mod.	ese.	clear.
Schr. Ajax, Delaware Breakwater†	30.28	769.1				ssw.			1		4		sw.	0	0	sm'h	sw.	fair.
Bk. Alpha, Flensburg, Prussia†	29.31	744.5	64	17.8		sse.			6		10		s.	4 h'r	4 h'r			raining.
Schr. Anna A. Holton, N. 26° 53′, W. 75° 09′†	30.05	763.3	82	27.8		ne.			4		0			0	0	mod.	ne.	clear.
Bk. Anna Thormann, S. 13° 32′ E. 106° 00′	30.00	761.9	75.6	24.2	79	ese.			5		9 k		nne.	sh'rs	shr's	short	e.	cloudy.
S. S. Antonio Lopez, Santander, Spain*	29.94	760.5	66	18.9	90	nw.			5		10			16 h'r	16 h'r			foggy.
Schr. Asa Eldridge, N. 25° 56′, W. 81° 45′†	30.18	766.6				ene.			3		5		e.	2½h'r	2½h'r	cross	nw.	fair.
Bk. Aureola, N. 18° 39′, W. 53° 59′*†	30.17	766.3	88	31.1		e.			3		1		e.	0	0	mod.	e.	clear.
Bk. B. F. Watson, N. 7° 08′ W. 27° 40′†	29.95	760.7	81	27.2		s.			5		5		s.	6 h'r	6 h'r	r'gh	ssw.	cloudy.
Bk. Bergenseren, N. 40° 36′, W. 19° 40′†	30.08	764.0				nnw.			4		10		nnw.	light	light	3	nnw.	light rain.
Bk. Bremen, N. 47° 13′, W. 43° 08′*†	30.20	767.1				s.			6		10		sw.	8 h'r	8 h'r	mod	sse.	foggy.
S. S. Burswell, N. 43° 34′, W. 25° 45′*†	30.35	770.9	73	22.8		ne.			2		3		calm	0	0	str'g	wnw.	clear.
Bk. Cato, Agoe Island, Sweden*†	29.70	754.4				se.			4		4		sse.					
Bk. Celestina, N. 26° 33′, W. 35° 05′*†	30.14	765.5				ne.			3		8		ne.	0	0	r'gh	e.	cloudy.
S Dora, S. 28° 00′, W. 37° 10′†	30.52	775.2	69.8	21.0		ese.			5		5 ks		nw.	0	0	mod.	se.	fair.
Schr. Edith R. Seward, Baltimore, Md*†	30.02	762.5	69	20.6		w.			2		7		wsw.	12 h'r	12 h'r			cloudy.
S. E. J. Spicer, N. 45° 05′, W. 28° 38′*	30.40	772.1	65	18.3		ene.			2				ene.	0	0	mod.	ene.	clear.
Bk. E. L. Pettingill, N. 27° 55′, W. 158° 21′†	30.30	769.6				ene.			6		2		e.	shr's	shr's	mod.	e.	
S. Enoch Train, Bremerhaven, Ger†	29.45	748.0				ssw.			6		8		ssw.					showery.
Bk. Essex, Aden, Arabia*†	29.89	759.2	94	34.4		wsw.			9		2		sw.	0	0			fine.
Bk. Franklin, N. 55° 37′, E. 12° 42′*†	29.63	752.6				s.			3		5?			0	0	sm'h		covered.?
Bk. Freya, N. 44° 06′, W. 37° 55′			81	27.2		ssw.			3		0			0	0	sm'h		clear.
S. Glendon, N. 31° 00′ W. 45° 35′†	30.21	767.3	86	30.0		se.			5		8		se.	0	0	sm'h		fair.
Bk. Godefroy, N. 16° 39′ W. 26° 37′	29.91	759.7	78.3	25.7	86	ne.			2		8			sh'rs	sh'rs	r'gh		cloudy.
S. Grecian, N. 7° 40′, E. 110° 00′*†	29.85	758.2	82	27.8		sse.			2		6			0	0	sm'h		clear.
Bk. Gronsvaer, N. 8° 00′, W. 25° 00′†	29.96	761.0				s.			5		3		sw.	0	0	cross	sw.	clear.
Bk. Hattie G. McFarland, Bath, Maine*†	30.15	765.8	64	17.8		wnw.			1		fg.			0	0			foggy.
Schr. Hattie Weston, N. 37° 36′, W. 75° 05′*†	30.02	762.5	74	23.3		se.			2		10		nnw.	2 h'r	2 h'r	sm'h	e.	cloudy.
Schr. Henry Denison, N. 25° 35′, W. 73° 24′†	29.96	761.0														long	nw.	fair.
Bk. Horace Scudder, N. 14° 00′ W. 62° 00′†	30.10	764.5	84	28.9		se.			3		2		calm	0	0			blue sky
S. Ivy, S. 56° 47′, W. 69° 10′†	30.15	765.8	37	2.8		ssw.			2		8		wsw.	0	0	long	w.	
S. Ismir, N. 15° 35′, E. 115° 00′†	29.87	758.7				sse.			3		4		sse.	0	0	sm'h		fine.
Schr. Jennie N. Huddell, Vineyard Sound, Mass†	30.11	764.8	67	19.4	94	sw.			1		0			0	0			clear.
Schr. John L. Thomas, N. 24° 40′, W. 71° 49′*†	30.10	764.5				e.			3		6		s.	0	0	h'vy	ne.	threatening.
Bg. John Wesley, Guantanamo W. I.†	29.85	758.2				se.			1		1		se.	0	0			clear.
Bk. Joseph A. Ropes, S. 31° 53′, E. 46° 46′*†	30.29	769.4	66	18.9	84	sw.			3		7		sw.	0	0	long	sw.	cloudy.
S. S. Lamperts, N. 44° 37′, E. 29° 48′*	29.82	757.4	65.0	18.3	68	wsw.			6		4 k							d. clouds.
Light House Tender, Laurel, Key West, Fla†	30.08	764.0	84	28.9		ene.			2		4		ene.	1 h'r	1 h'r			fair.
S. S. Madrid, N. 51° 17′, W. 33° 19′*†	30.36	771.1	54	12.2		wsw.			3		9		wsw.	0	0	mod.	nnw.	overcast.
Schr Maggie Abbott, N. 19° 26′, W. 72° 43′†	29.96	761.0									2			0	0			
S. S. Malabar, N. 38° 31′, W. 157° 25′†	30.47	773.9				n.			2		0			0	0	sm'h		clear.
S. Minnie N. Gerow, N. 36° 18′, W. 2° 01′*†	29.90	759.4				ne.			4		0					sm'h	e.	fine.
S. M. P. Grace, S. 7° 43′, W. 111° 30′*	30.02	762.5	76	24.4		ese.			2				se.	0	0	sm'h	se.	squally
Bk. National Eagle, N. 50° 00′, W. 1° 15′†	29.46	748.3				wsw.			10		8		w.	6 h'r	6 h'r	r'gh	wsw.	threatening
S. S. Nebo, N. 36° 42′, W. 41° 21′*†	30.10	764.5				ese.			3		7		sw.	½ h'r	½ h'r	cross	se.	clear.
Schr. Ocean Traveller, N. 27° 34′ W. 66° 11′†	30.03	762.7				ene.			2		1		e.			mod.	ne.	clear.
S. Oracle, N. 31° 35′, W. 50° 15′*	30.18	766.6	80	26.7	100	s.			3		8					r'gh	sse.	squally.
S. Orealla, N. 7° 32′, W. 23° 49′*	29.83	757.7				s.			5		8		s.	0	0	long	s.	cloudy.
S. St. Francis, N. 26° 28′, W. 39° 30′†	30.20	767.1	76	24.4		e.			6		4		e.	0	0	long	e.	hazy.
Schr. S. B. Hubbard, Gardiner, Maine†	30.13	765.3	65	18.3		calm			0		fg			0	0			dense fog.
Bk. Sunbeam, N. 37° 16′ W. 17° 58′†	30.27	768.8	72	22.2	90	nne.			4		8		nne.	0	0	high	ne.	clearing.
S. S. Sunbeam, Rotterdam, Holland	29.27	743.4	61	16.1	82	sw.			7		10		sw.					heavy rain.
S. Sovereign of the Sea, S. 56° 40′, W. 68° 21′*†	29.80	756.9	38	3.3	100	sw.			2		5		sw.	0	0	long	wsw.	misty.
U.S.F.C.S.S. Fish Hawk, Wood's Holl, Mass†	30.32	770.1	68	20.0	90	sw.			1		3		sw.	0	0			clear.
Schr. Victor Ping, N. 16° 18′, W. 68° 44′*†	30.02	762.5				se.			2		2		se.			sm'h	ne.	fair.
Schr Viola Reppard, Savannah, Ga†	30.13	765.3	78	25.6		ne.			1		1?		ne.	0	0			cloudy?
Bk. Wandering Jew, N. 42° 07′, W. 70° 17′*†	30.19	766.8	65	18.3		sw.			3		fg.			0	0	long	e.	foggy.
Bg. Wanburn, N. 29° 50′ W. 76° 35′*†	30.10	764.5				ne.			4		3		ene.			cross		
Bk. Warden Law, N. 43° 30′, W. 15° 26′*	30.14	765.5				n.			4				n.	1 h'r	1 h'r	sm'h	nne.	fair.
S. Wm. Woodbury, N. 60° 51′, W. 5° 29′*	29.23	742.4	59	15.0	59	nw.			2		2		sw.			long	nw.	

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



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 24, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.89	759.3	82.4	28.0	71	s.			1		0			0	0	clear	Bouvier.
Algiers			29.88	759.0	85.2	29.0	54	n.			2		0			0	0	clear	Thève.
La Calle			29.93	760.2	87.1	30.6	47	e.			1		0			0	0	clear	Foufréde.
Tunis			29.90	759.5															Jacques.
Saida			29.97	761.2															Perès.
Tebessa			30.03	762.8	88.5	31.4	21	w.			1		0			0	0	clear	Rigaud.
Geriville					95.4	35.2	9	wnw.			1		1			0	0	very fair	Louchamp.
Laghouat			30.01	762.2	99.3	37.4	23	sw.			1		0			0	0	clear	Abraham.
Biskra			30.01	762.1	98.6	37.0	29	sw.			2		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.09	764.3	30.18	766.6	58.1	14.5	85	nne.	5	2.2			5			0	0	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.32	744.7	29.84	757.9	79.5	26.4	57	nw.			1		0			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.11	739.3	29.86	758.4	62.6	17.0	80	wnw.	6.3	2.8			10			0.035	0.9		Dr. Wierzbiski.
Eperies	29.04	737.6	29.88	759.0	70.5	21.4	56	s.			3		9 ks		n.	0	0		Julius Mikolik.
Gratz	28.65	727.6	29.86	758.4	68.4	20.2	85	se.			3		9			0	0		Andreas Rospini.
Hermannstadt	28.58	725.8	29.93	760.3	77.0	25.0	66	e.			1		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.62	727.0	29.90	760.9	55.2	12.9	91	calm			0		10			1.020	25.9	raining	The Staff.
Lemberg	28.94	735.1	29.89	759.1	73.2	22.9	56	sw.			3		0			0	0		Dr. T. Stanecki.
Pola	29 78	756.5	29.89	759.2	78.6	25.9	75	se.			4		9			0.012	0.3		I. R. Hydrographic Office.
Szathmar	29.49	749.0	29.94	760.4	76.6	24.8	51	se.			2		0			0	0		Joseph Midlinszky, S. J.
Szegedin	29.02	752.4	29.89	759.1	79.2	26.2	54	s.			2		0			0	0		Karl Stancel.
Trieste	29.79	756.6	29.89	759.2	83.5	28.6	58	sw.			1		7			0	0		Royal Academy.
Vienna	29.28	743.6	29.96	761.6	59.4	15.2	76	nw.			1		10			0.138	3.5	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.22	742.2	29.32	744.7	60.0	15.6	57	wnw.	14	6.3			4			0.030	0.8	blue sky	W. Boswell
Armagh, Observatory	29.23	742.4	29.46	748.3	55.4	13.0	86	nw.	7	3.1			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.42	747.3	55.2	12.9	90	wsw.	28	12.5			9					overcast	John Hartnup.
Bolton, Sharples	28.88	733.5	29.41	747.0	55.8	13.2	90	sw.	13	5.8			9					showery	Thomas Mackereth.
Bradford, Yorkshire	29.01	730.8	29.41	747.0	55.7	13.2	79	nw.			4		10			0.02	0.5	raining	McLandsborough & Preston
Bridgetown, Barbadoes	29.91	759.7	29.94	760.5	85.0	29.4	68	ne.			1		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.54	750.3	62.0	16.7	74	w.			6.0		9					overcast	John McLaren.
Chatham, School M. E.	29.50	749.3	29.63	752.6	65.2	18.4	50	sw.			2		7					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.51	749.5	29.73	755.1	59.0	15.0	64	wsw.			5		9					squally	The Staff.
Fort Napier, Natal	27.76	705.1	29.98	761.5	71.2	21.8	40	n.			2		2					blue sky	Corpl. F. Milner, A. H. C.
Free Town, Sierra Leone	29.63	752.6	29.86	758.4	86.0	30.0	64	nw.			1		7						Sergt. John Robinson.
Gibraltar, Mediterranean	29.88	758.9	29.93	760.2	81.4	27.4	72	nw.			3		0					blue sky	Corpl. F. Norris, A. H. C
Glasgow, Observatory	29.16	740.7	29.30	745.7	59.3	15.2	52	wnw.			4		3 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.44	747.8	29.00	751.8	58.0	14.4	64	wsw.			4		10					raining	The Staff.
Guernsey	29.49	749.0	29.77	756.1	58	14.4	81	w.			3		10			blank	blank	squally	A. Collenette, F. M. S.
Kew, Observatory	29.59	751 6	29.63	752.6	57.0	13.9	65	w.	13	5.8			9					showery	The Staff.
Leicester, Museum	29.25	742.9	29.50	749.3	58.2	14.6	67	sw.			3		10					overcast	J. C. Smith.
Malta, Mediterranean	29.84	757.9	29.91	759.7	80.4	26.9	89	ne.			2		2					blue sky	W. D. Ballau.
Nassau, Bahamas	30.00	762.0	30.05	763.3	83.0	28.3	74	ne.			3		4			blank	blank	d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.00	736.6	29.50	749.3	55.5	13.1	93	s.			4		10					raining	Warren Middleton.
Oxford, Radcliffe Obs'y	29.30	745.7	29.59	751.6	56.0	13.3	80	sw.			6		8					showery	The Staff.
Plymouth	29.03	752 6	29.70	754.4	59.0	15.0	81	w.			4		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.30	744.2	58	14.4	84						8					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.94	760.5	30.00	762.0	85.0	29.4	30	ne.			2		0					blue sky	W. H. Lyne.
Sheffield	29.20	741.7	29.47	748.5	59.2	15.1	79	ssw.			1		9			0.06	1.5	overcast	W. F. Cooper.
Silloth Rectory	29.33	745.0	29.36	745 7	63.7	17.6	69	w.			1		3			0.065	1.6	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.42	747.3	55.0	12.8	86	wsw.	12	5.4			10					raining	I. New.
Strathfield Turgiss					59.3	15.2	70	sw.			3		6					showery	Rev. C. H. Griffiths, F. M. S
Truro, Royal Institution	29.74	755.4	29.75	755.6	64	17.8	62	w.			6		4					d. clouds	W. Newcombe.
Valencia, Observatory	29.68	753.9	29.71	754 6	55.6	13.1	86	w.	22	9.8			8			blank	blank	squally	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.77	756.1	29.81	757.2	61	16.1	87	n.	15	6.7		3 ck	4 s	calm	n.	c	0	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	29.89	759.2	29.95	760.7	56	13.3	93	e.	6	2.7			1g			0	0	light fog	G. A. Blair.
Father Point, Quebec*	29.85	758.2	29.87	758.7	54	12.2	86	ne.	3	1.3		5 k	hz	w.		0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.64	737.0	29.83	757.7	61	16.1	93	n.	6	2.7		2 k	2 ks	sw.	sw.	0	0	fair	James Stewart.
Halifax, N. S*	29.66	753.4	29.78	756.4	59	15.0	90	nw.	8	3.6		7k;ck	0			0	0	cloudy	A. Allison.
Kingston, Ontario*	29.59	751.6	29.91	759.7	66	18.9	90	nw.	5	2.2		2 c	0			0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.67	753.6	29.87	758.7	64	17.8	97	nw.	6	2.7			10 s			0.31	7.9	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.34	745.2	30.02	762.5	59	15.0	93	n.	6	2.7		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.33	745.0	30.01	762.2	61	16.1	100	n.	9	4.0			fg.			0.12	3.0	foggy	H. Morgan.
Port Stanley, Ontario	29.32	744.7	29.95	760.7	63	17.2	93	w.	1	0.4			10 k		w.	0.46	11.7	cloudy	M. Payne.
Quebec, Quebec*	29.55	750.6	29.86	758.4	62	16.7	100	calm			0		10 n			0.15	3 8	light rain	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.54	750 3	29.99	761.7	59	15.0	90	n.	5	2.2		0	2 ks		n.	0.12	3.0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.33	745.0	30.02	762.5	64	17.8	93	e.	5	2.2			10 ks			0	0	cloudy	
St. Andrews, N. B	29.82	757.4	29.87	758.7	59	15.0	89	n.	1	0.4		0	0			0	0	clear	
Sydney, C. B*	29.61	752.1	29 67	753.6	57	13.9	93	ne.	21	9.4			10 n			0.06	1.5	light rain	T. C. Hill, C. E
Toronto, Ontario*	29.62	752.3	29.99	761.7	67	19.4	84	n.	15	6.7		0	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	29.82	757.4	29.88	758.9	55	12.8	90	nw.	3	1.3		3 c	0	w.		0	0	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.65	727.7	30.02	762.5	60.0	15.6	100	nw.			3		fg			0	0	dense fog	Wm. Wylie.
St. Johns, Newfoundland	29.94?	760.5?	30.19?	766.8?	55	12.8	100	ne.	2	0.9			10 n					raining	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.15	765.8	30.17	766.3	64	17.8	85	e.	10.7	4.8		0	0			0	0	hazy	C. Hansen.
Cape Town, C. G. H. Obs'y	29.98	761.5	30.01	762.2	72.5	22.5	49	nw.	11	4.9		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai.	29.89	759.3	29.92	759.9	76.8	24.9	90	e.	2.2	1.0			0			0	0	clear	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.36	745.8	29.41	747.0	60.1	15.6	66	sw.	31	14			9						Oversergent Fischer.
Fanöe	29.39	746.5	29.41	747.0	59.9	15.5	75	wsw.			7		9						Overloerer Lauridsen
Godthaab, Greenland	29.82	757.3	29.86	758.4	39.4	4.1	95	nne.			2		9			0.220	5.6		S. Kleinschmidt.
Ivigtut	29.73	755.2	29.75	755.7	44.2	6.8		nw.			2		9						
Stykkisholm, Iceland	29.64	752.8	29.68	753.9	44.2	6.8	78	ne.			7		8						A. O. Thorlacius.
Thorshavn	29.23	742.4	29.26	743.3	55.2	12.9	81	calm	0	0			7						Overloerer Bergh.
Vestervig	29.12	739.7	29.21	742.0	54.5	12.5	86	wsw.			7		10					raining	Loearer Oesterbol.
FRENCH.																			
Agen, Normal School	29.56	750.7	30.19	766.9	67.3	19.6	72	wnw.			1	ck	0	nw.		0	0		M. Labroue, Director.
Alençon, Normal School	29.34	745.2	29.89	759.2	61.5	16.4	63	s.			1		k	s.	s.	0	0		M. Nicot, Director.
Arras, Engineer School	29.48	748.7	29.73	755.1	55.9	13.3	76	sw.			6		ks		s.	0.004	0.1		M. Fénéon, Command't.
Avignon, Normal School	29.87	758.7	29.95	760.7	58.6	14.8	85	n.			1		10					raining	M. Giraud, Director.
Bar-sur-Seine	29.39	746.5	29.93	760.3	63.5	17.5	43	w.			1		8		w.	0	0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.54	750.4	29.80	757.0	65.5	18.6	49	w.			3		8		w.	0.004	0.1	very cloudy.	M. Frère Eugène Maris.
Besançon, Normal School	29.05	737.9	29.93	760.1	64.4	18	71	s.			1		2		nw.	0	0	slightly cl'dy.	M. Gobin, Director.
Bordeaux, Observatory	29.74	755.4	30.00	761.9	70.2	21.2	46	wnw.			1		8		w.	0.039	1.0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.38	746.3	29.93	760.1	63.5	17.5	61	ssw.			3				ssw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.66	753.4	29.91	759.6	67.6	19.8	65	w.			2		8		w.	0.079	2.0	hailing	M. de Kermaree, Dir.
Caen, Normal School	29.74	755.5	29.82	757.3	61.2	16.2	30	sw.			2		5		sw.	0.08	2.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.56	750.9	29.88	758.9	63.1	17.3	57	sw.			2		5		w.	0.197	5.0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.30	744.1	29.80	756.9	62.6	17	64	w.			3		2			0.39	10.	¼ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.62	726.9	29.94	760.4	66.9	19.4	43	w.			2		8			0.043	1.1	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.13	740.0	29.97	761.2	66.9	19.4	36	nw.			3		7		wsw.	0.150	3.8		M. de Villemontée, Dir.
Commercy, Normal School	28.13	714.4	29.87	758.8	63.7	17.6	86	w.			4		kn	w.	w.	0.280	7.1		Dr. Coulet, Director.
Gap, Normal School	27.36	695.0	29.85	758.1	61.2	16.2	83	n.			1		1 n		n.	0.047	1.2		M. Jeangirard, Director.
Gréasque, du Rhone	29.03	737.4	30.15	765.7	64.8	18.2	94	sw.			1		10		sw.	0.217	5.5		M. Kina, Director.
Grenoble, Normal School	29.10	739.0	29.85	758.1	55.0	12.8	93	nw.			3		csk		w.	0	0		M. Ablard, Director.
Lamballe, Normal School					64.0	17.8	59	w.			2		5		w.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.46	748.3	30.02	762.5	64.8	18.2	67	sw.			1		10			0.08	2.	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.83	757.7	29.93	760.3	63.3	17.4	59	wsw.			3		5		w.	0.236	6.0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.93	734.9	29.97	761.2	65.1	18.4	37	e.			1	c	n	s.	w.	0.024	0.6		M. André, Director.
Mans, Normal School	29.58	751.2	29.88	758.9	62.6	17	81	w.			4		8		w.	0	0	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.64	752.8	29.90	759.5	68.0	20.0	93	wnw.			1		10		wnw.	0.220	5.6		M. Stephan, Director.
Montlouis																			M. Cave, for Dr. Fines.
Montpellier, Normal School	29.81	757.1	29.93	760.2	60.1	15.6	98	w.			2		10					rainy	M. Galzin, Director.
Nancy, Normal School	29.13	739.8	29.90	759.4	59.7	15.4	60	sse.			2		5 k			0.260	6.6	cloudy	M. Hasse, Director
Nantes, Observatory	29.80	756.9	29.96	761.0	66.0	18.9	50	wsw.			2–3	0	7k;kn		w.	0.024	0.6		M. Larocque, Director.
Perpignan, Observatory	29.90	759.4	30.00	762.1	62.4	16.9	89	sw.	1.8	0.8			10			0.760	19.3		Dr. Fines, Director.
Pic-du-Midi, Summit	21.24	539.6			37.0	2.8		sw.			2–3		5		sw.	0.020	0.5	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.92	734.5	29.98	761.4	60.8	16	89	s.			1		2			0.28	7.	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.13	638.2			42.6	5.9	85	wsw.			3		8		w.	0.543	13.8	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	29.94	760.5	29.97	761.3	65.8	18.8	100	wsw.			1		2		w.	0.08	2.	¼ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.72	754.9	29.93	760.2	65.8	18.8	57	nw.			2		5		se.	0.043	1.1	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.90	708.6	29.99	761.8	61.5	16.4	57	w.			1		1		sw.	0	0	clear	M. Seger, Director.
Rouen, Normal School	29.79	756.6	29.84	757.8	53.6	12	97	w.			2		10	sw.		c.39	10.	raining	M. Brotier.
Saint Maur, Observatory	29.70	754.4	29.87	758.6	62.6	17.0	49	wsw.			2		6	wsw.	sw.	0.004	0.1		M. Renou, Director.
Toulouse, Observatory	29.35	745.6	30.08	764.0	66.2	19.0	50	wnw.			1		10	nw.		0	0	covered	M. Baillaud, Director.
Tours	29.74	755.3	29.91	759.8	66.6	19.2	50	sw.			1		5		sw.	0.008	0.2	cloudy	M. de Tastes.
Versailles, Observatory	29.39	746.4	29.88	758.9	63.3	17.4	52	wsw.			4					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.58	751.3	29.87	758.7	65.5	18.6	50	wsw.			3		6		sw.	0.004	0.1		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.46	722.8	29.87	758.8	61.5	16.4	56	w.			2		3	w.		0.106	2.7		Prof. Jnedt.
Bamberg	29.03	737.3	29.88	758.9	65.7	18.7	50	wsw.			3	0	3 k		sw.	0.157	4.0		Prof. Dr. Hoh.
Berlin	29.57	751.1	29.74	755.5	65.7	18.7	51	s.			2		8			0.003	1.6		Prof. Dr. Arndt.
Breslau	29.40	746.8	29.93	760.2	63.3	17.4	68	s.			2		10			0.382	9.7		Royal University Obs'y.
Carlsruhe	29.46	748.3	29.89	759.2	64.8	18.2	52	sw.			2		2	sw.		0	0		Albert Senz.
Cassel	29.05	737.8	29.76	755.9	64.2	17.8	40	s.			4		8	sw.		0.024	0.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.48	748.9	29.84	757.9	66.6	19.2	51	sw.			3		5			0.200	6.6		Physical Society.
Friedrichshafen	28.52	724.3	29.91	759.8	65.1	18.4	64	ssw.			3		10	sw.		0	0		Wilhelm, Chief Tel.
Hamburg	29.52	749.9	29.61	752.2	59.9	15.5	68	sw.			7		7			0	0		E. Preller.
Kiel	29.50	749.4	29.52	749.8	60.4	15.8	72	ssw.			4		9			0.150	3.8		Prof. Dr. G. Karsten
Leipsic, Astron'l Obs'y	29.38	746.3	29.79	756.7	65.3	18.5	48	wsw.			4		5	wsw.		0.228	5.8		H. Leppig, Asst.
Magdeburg	29.57	751.0	29.75	755.7	62.6	17.0	59	ssw.			4		10 ks		sw.	0.079	2.0		Dr. Assmann.
Memel	29.71	754.7	29.76	755.9	65.1	18.4	62	sw.			6	0	4 ks						Isserman.
Munich	28.13	714.6	29.99	761.8	61.0	16.1	59	nw.			1		10	w.		0.815	20.7		Dr. C. Lang.
Neufahrwasser	29.72	754.9	29.74	755.3	66.6	19.2	55	sw.			5		5			0.004	0.1		A. Lothes.
Neustadt, Palatinate	29.28	743.8	29.81	757.1	64.8	18.2	51	sw.			1		6	sw.		0	0		Dicknether.
Stuttgart	28.93	734.9	29.80	757.0	65.3	18.5	48	w.			3		4	w.		0	0		Prof. Dr. Schoder.
Wustrow	29.57	751.0	29.60	751.7	61.9	16.6	61	s.			7	0	8 k		s.	0.134	3.4		Profs. Brandes & Reimer
GREEK.																			
Athens	29.61	752.2	29.98	761.5	87.8	31.0		ne.			1.5		1			0	0		Schmidt & Wourlisch
INDIAN.																			
Kurrachee	29.68	753.8	29.73	755.1	83.2	28.4	73	wsw.	26.0	11.6			5		w.	0	0	d. clouds	
Deesa	29.20	741.7	29.67	753.6	87.1	30.6	53	wsw.	14.0	6.3			7	wsw.		0	0	d. clouds	
Bombay	29.73	755.2	29.77	756.1	83.7	28.7	72	wnw.	12.0	5.4			3	nw.		0.17	4.3	d. clouds	
Poona, Yarrowda	27.90	708.6	29.74	755.5	79.8	26.6	63	wsw.	20.0	8.9			6	w.	w.	0	0	d. clouds	
Trichinopoly	29.46	748.2	29.73	755.2	87.7	30.9	56	nw.					6			0.32	8.1	d. clouds	
Bellary	28.23	717.0	29.69	754.1	79.0	26.1	74	w.	10.1	4.5			10	sw.		0.32	8.1	overcast	
Belgaum	27.24	691.9	29.77	756.1	76.6	24.8	70	w.	6.0	2.7			4	se.	nw.	0	0	d. clouds	
Lahore	28.88	733.4	29.60	751.7	93.1	33.9	53	calm	0	0			6			0	0	d. clouds	
Roorkee	28.72	729.6	29.60	751.8	90.6	32.6	60	se.	1.3	0.6			6			0.10	2.5		
Agra	29.06	738.0	29.61	752.1	86.3	30.2	76	e.	6.0	2.7			5		e.	0.25	6.4	d. clouds	
Nagpur	28.61	726.8	29.64	752.7	88.2	31.2	53	calm	2.0	0.9			5	w.		0	0	d. clouds	
Jubbulpore	28.32	719.4	29.66	753.3	85.3	29.6	60	w.	3.3	1.5			3		w.	0	0	d. clouds	
Lucknow	29.28	743.6	29.65	753.0	85.1	29.5	78	calm	1.0	0.5			3	wnw.		0.19	4.8	d. clouds	
Allahabad	29.31	744.5	29.62	752.3	86.7	30.4	78	calm	0	0			7	sw.	e.	0	0	d. clouds	
Patna	29.50	749.2	29.68	753.8	81.4	27.4	78	e.	1.8	0.8			10	e.	e.	0.60	15.2	overcast	
Hazaribagh	27.68	703.0	29.69	754.1	74.6	23.7	85	ssw.	5.3	2.4			10		sw.	1.58	40.1	thnd'r str'm	
Cuttack	29.57	751.2	29.66	753.2	80.7	27.1	83	calm	0	0			6			0.97	24.6	d clouds	
Calcutta, Alipore	29.62	752.3	29.64	752.9	79.1	26.2	90	sse.	2.0	c.9			9	e.		0.79	20.1	d. clouds	
Dhubri	29.53	750.1	29.65	753.0	82.7	28.2	91	calm	0	0			10			0.04	1.0	raining	
Chittagong	29.63	752.0	29.72	754.8	79.0	26.1	87	se.	5.3	2.4			7			0	0	d. clouds	
Sibsagar	29.26	743.3	29.59	751.6	91.9	33.3	66	s.	2.0	0.9			0			0	0	blue sky	
Jeypore	28.20	716.3	29.63	752.7	80.1	26.7	86	ese.	2.1	0.9			9		e.	0.31	7.9	d. clouds	
Zanzibar, Africa	29.98	761.5			84.5	29.2	39	sse.	5.2	2.3			2		se.	0	0	d. clouds.	
ITALIAN.																			
Udine	29.47	748.4	29.86	758.5	76.5	24.7	68	se.	3.1	1.4			9			0	0		Prof. Giovanni Clodig.
Milan	29.34	745.3	29.84	757.9	77.9	25.5	58	e.	4.9	2.2			9	wsw.		0.047	1.2		Prof. Schiaparelli.
Padua	29.74	755.4	29.85	758.1	80.8	27.1	56	ese.	0.7	0.3			7	w.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.93	734.9	29.81	757.1	70.2	21.2	80	nne.	5.6	2.5			10			0.102	2.6		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
ITALIAN.—Continued.																			
Genoa	29.71	754.7	29.90	759.4	72.0	22.2	85	s.	9.8	4.4			10	se.		0.091	2.3		Prof. G. M. Garibaldi
Mondovi	27.94	709.7	29.78	756.3	72.5	22.5	64	nw.			4		2	sw.		0.008	0.2		Prof. D. O. Bruno.
Pesaro	29.80	757.0	29.85	758.2	80.6	27.0	61	ese.	8.1	3.6			1			0	0		Prof. Luigi Guidi.
Florence	29.63	752.7	29.88	758.9	82.8	28.2	50	w.			2		5	sw.		0	0		Prof. Costantino Pitter
Leghorn	29.79	756.6	29.87	758.7	79.5	26.4	63	s.	4.3	1.9			2			0	0		Prof. P. Monte.
Rome	29.77	756.2	29.94	760.5	83.1	28.4	49	ssw.	8.1	3.6			1	s.		0	0		Prof. P. Tachini.
Lecce	29.71	754.5	29.95	760.6	85.3	29.6	37	s.	12.5	5.6			0			0	0		Prof. C. de Giorgi
Cosenza	29.06	738.1	29.91	759.7	85.3	29.6	72	wsw.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari	29.65	753.2	29.84	758.0	79.7	26.5	66	se.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.71	754.5	29.95	760.6	81.1	27.3	57	ne.	9.4	4.2			0			0	0		Prof. G. Ciaccatore.
Syracuse	29.87	758.7	29.91	759.8	80.2	26.8	68	ese.	9.4	4.2			3	ese.		0	0		Prof. Vincenzo Guilian
Sub-series.																			
Naples, S. R	29.45	747.9	29.95	760.7	82.2	27.9	59	s.	0	0			0			0	0		Prof. T. Brioschi.
Stelvio	22.10	562.7			44.1	6.7	77	se.			4		10			1.721	43.7	covered	Prof. P. F. Denza.
Valdobbia	22.20	563.7			50.0	10.0	77	n.			2		10			0.039	1.0	covered	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.76	755.9	29.79	756.6	75.2	24.0	90	n.	1.4	0.6		0	8ks;ck		ne.	0.116	2.9	cloudy	K. Ogawa.
Hakodate	29.79	756.0	29.80	756.9	73.2	22.9	90	e.	25.8	11.5			10			0	0	overcast	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.65	753.1	29.81	757.2	74.3	23.5	95	nw.	1.2	0.5			10s;ck		w.	0.086	2.2	cloudy	M. Fojima.
Nagasaki, I. M. Obs'y	29.73	755.0	29.92	760.0	72.7	22.6	96	n.	4.2	1.9		6 c	0			1.840	46.7	cloudy	
Nemuro	30.10	764.5	30.17	766.3	70.8	21.6	97	sse.	9.0	4.0		10	0			0	0	cloudy	
Niigata	29.74	755.4	29.77	756.1	74.3	23.5	93	sse.	6.6	2.9		3 ck	7 ck	s.	s.	0.320	8.1	cloudy	M. Morita.
Nobiru	29.78	756.3	29.79	756.7	75.6	24.2	92	ne.	4.6	2.1		0	2 ck;s			0	0	fair	H. Midzushina.
Osaka	29.77	756.1	29.78	756.4	75.2	24.0	90	calm	0	0			10ks;ck			0.070	1.8	cloudy	
Supporo					72.5	22.5	84	s.	19.8	8.8			10			0	0	covered	
Tokei Obs'y, Yeddo	29.79	756.6	29.86	758.4	74.4	23.6	86	s.	17.1	7.6			10ks;s		sse.	0.170	4.3	cloudy	The Staff.
Wakayama	29.77	756.1	29.82	757.4	75.5	24.2	92	calm	0	0			10		w.	0.384	9.8	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.92	760.0	30.11	764.8	73.5	23.1	60	ese.	20.5	9.2		0	3 k		sse.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.71	602.2	29.93	760.2	59.5	15.3	99	calm	0	0		10 n	0	ne.		0.772	19.6	rainy	Prof. Vicente Fernandez.
Leon.†	24.33	618.0	29.90	761.0	61.7	16.5	95	e.			1	2 c	8 n	sw.		0.292	7.4	covered	Prof. M. Leal.
Mazatlan	29.65	753.2	29.91	759.7	77.0	25.0	91	e.	5.3	2.3		0	4 ks;n		se.	0.178	4.5		F. Quijano, C. E.
Mexico, Central Obs'y	23.09	586.4	30.08	764.0	56.1	13.4	88	calm	0	0		4 c	3 k			0.512	13.0	cloudy	The Staff.
Morelia	24.24	615.0	30.32	770.0	60.3	15.7	63	se.			2	1	2	s.	se.	inap.	inap.	clear	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.92	607.6	29.82?	767.5?	63.1	17.3	96	calm			0		10 kn		ese.	0.380	9.7	covered	M. V. de Leon, M. E
Puebla, Catholic Institute	23.41?	595.4?	30.10	764.7	55.4	13.0	85	calm			0		10			0.073?	17.0?	covered	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D.
Zacatecas	22.60	573.7	30.14	765.6	58.0?	15.0?	78	w.	6.0	2.6		4 cs	0	e.		0	0	¼ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.69	754.0	29.69	754.0	62.2	16.8		sw.			5					0.098	2.5		
Groningen	29.53	750.1	29.59	751.5	59.7	15.4		wsw.			5					0.250	6.5		
Helder	29.57	751.1	29.57	751.1	59.7	15.4		ssw.			5					0.236	6.0		
Hellevoetsluis	29.66	753.3	29.66	753.3	61.0	16.1	66	sw.			5					0.185	4.7		
Utrecht	29.63	752.5	29.67	753.7	62.1	16.7	69	sw.			4		5			0.130	3.3	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	28.93	734.7	28.99	736.3	62.6	17.0	76	s.	2	1			9			0.024	0.6		
Brono	29.00	738.0	29.10	739.0	65.8	18.8	51	se.	9	4			7			0.059	1.5		
Christiania	28.84	732.4	28.97	735.9	60.6	15.9	76	ese.	0	0			9			0.236	6.0		
Glessvær	29.61	752.1	29.03	752.7	65.1	18.4		ese.			4		0						
Lodingen	29.29	743.9	29.34	745.1	68.9	20.5	46	ese.			4		5			0.004	0.1		
PORTUGUESE.																			
Angra, Azores					74.3	23.5	81	ese.	8.7	3.9			3			0	0		Dr. J. A. Sampaio.
Campo Major	28.96	735.6	29.91	759.8	80.6	27.0	20	wnw.	0.7	0.3			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.06	763.4	30.14	765.6	74.3	23.5	69	sw.	4.9	2.2			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.72	754.9	30.08	763.9	69.1	20.6	35	n.	30.4	13.6			0			0	0		The Staff.
Ponta Delgada, Azores	30.24	768.2	30.32	770.0	74.8	23.8	66	ne.	8.7	3.9			4			0.138	3.5		
Saint Paul de Loando	29.75	755.7	29.90	760.9	67.6	19.8	94	w.			1		10			0	0		
Serra da Estrella	25.32	643.0	29.98	761.4	55.2	12.9	51	nnw.	16.8	7.5			0			0	0		
RUSSIAN.																			
Akmolinski	28.67	728.3	29.68	753.9	80.8	27.1	39	sw.	7	3		2 c	0			0	0		Major K. Lasarew.
Archangel	29.70	754.4	29.72	754.9	59.9	15.5	80	ene.	9	4			10			0	0		Capt. Sselliwerstow.
Astrakhan	29.98	761.6	29.90	759.5	67.1	19.5	67	w.	11	5			10 s;n			0.197	5.0		Capt. Wisganow.
Barnaul	29.37	746.0	29.85	758.1	68.5	20.3	42	e.	2	1			1			0	0		Meteorological Obs'y.
Dorpat	29.44	747.8	29.68	753.8	60.1	15.6	89	sw.	9	4			10 ks			0.016	0.4		Observatory.
Ekaterinburg	28.77	730.8	29.69	754.0	73.8	23.2	44	nw.	7	3		0	5 k;ks			0	0		Meteorological Obs'y.
Irkutsk																			
Kasan	29.43	747.6	29.68	753.9	84.0	29.2	38	nw.	2	1		cs	9 k			0	0		Observatory.
Kertch	29.98	761.5	30.00	762.0	75.2	24.0	41	nw.	45	20		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.28	743.6	29.89	759.1	69.3	20.7	54	w.	7	3		0	2 k;ks						Observatory.
Lugan	29.52	749.8	29.72	754.9	61.2	16.2	89	wsw.	22	10			10			0.020	0.5		Meteorological Obs'y.
Moscow	29.24	742.8	29.09	754.1	75.7	24.3	61	nw.	4	2			9 ks						Meteorological Obs'y.
Nikolaiev	29.97	761.3	30.04	763.1	78.4	25.8	42	wsw.	9	4		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.84	758.0	29.98	761.6	73.9	23.3	59	calm	0	0		0	6 k			0	0		Physical Observatory.
St. Petersburg	29.66	753.4	29.08	753.8	66.9	19.4	61	ssw.	11	5			10 kn			0	0		Central Physical Obs'y.
Semipalatinsk	29.17	740.9	29.78	750.4	82.8	28.2	27	e.	9	4			1			0	0		Major Lasarew
Tashkend, Laboratory	28.25	717.6	29.71	754.7	86.5	30.3	40	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.47	723.2	29.80	757.0	80.6	30.0	40	nw.	38	17		0	2 k			0	0		Physical Observatory.
Vladivostock	29.87	758.6	29.93	760.3	65.8	18.8	69	ne.	7	3		0	0						
Warsaw	29.48	748.7	29.89	759.3	60.6	15.9	73	sw.	7	3			10 ks						Astronomical Obs'y.
Wilna	29.41	746.9	29.81	757.2	66.9	19.4	74	sw.	4	2			10			0	0	heavy clouds	Berg, Assistant.
Yeniseisk	29.59	751.6	29.87	758.8	53.1	11.7	83	n.	2	1			0			0.150	3.8		M. O. Marks.
SCOTTISH.																			
Monach Lt.			29.41	747.0	56	13.3	93	nw.			4		10			0	0	overcast	J. Youngclause.
North Unst			29.16	740.7				n.			6		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.79	756.6	29.89	759.2	74.8	23.8	73	ne.	2.5	1.1			9			0	0	covered	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.05	763.2	30.11	764.7	71.6	22.0	53	nw.	2.2	1.0		2	0	nw.		0.276	7.0	almost cov.	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.09	688.0	30.00	761.9	66.0	18.9	42	ne.	6.5	2.9		0	3			0	0	clouds	Domingo Martin.
Madrid, Royal Obs'y	27.70	703.5	29.81	757.1	80.8	27.1	42	nw.	8.5	3.8		0	1			0	0	light clouds.	The Staff.
Murcia, Met. Obs'y	29.67	753.7	29.81	757.2	87.8	31.0	59	ene.	4.7	2.1		4	5	ne.		inap.	inap.	misty	Olayo Diaz, Director
Oviedo	29.26	743.2	30.13	765.3	59.9	15.5	67	ne.	4.3	1.9		0	0 k			0	0	cloudy	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.18	741.2	30.06	763.5	66.2	19.0	51	nw.	6.3	2.8		0	8			0	0	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I.	29.94	760.6	30.01	762.3	76.7	24.8	88	ese.	0	0		1 c	0	nnw.		0.41	10.4	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.91	759.6	29.96	761.0	79.7	26.5	88	n.	0	0			9 ck		e.	0.295	7.5	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.91	759.7	30.01	762.2	73.2	22.9	59	w.	6.5	2.9		0	3		w.	0	0		Capt. C. Pujazon R. N.
San Juan de Porto Rico, W. I	29.89	759.1	29.98	761.4	81.3	27.4	84	calm	0	0		0	2 k		se.	0.039	1.0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.82	757.4	29.95	760.7	84.0	28.9	73	s.	2.6	1.2		3 cs	0	ese.		0.01	0.3	fair	José L. Yrastorza.
SWEDISH																			
Haparanda	29.48	748.7	29.52	749.7	66.2	19.0	88	se.			4		10			0.323	8.2		
Umea	29.35	745.4	29.40	746.7	57.9	14.4	92	s.			6		10			0.038	16.2		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Hernosand	29.20	741.6	29.25	742.9	63.0	17.2	74	s.			6		5			0.535	13.6		
Stockholm	29.15	740.3	29.32	744.8	63.3	17.4	56	ssw.			8		6			0.539	13.7		
Wisby	29.35	745.5	29.41	747.0	63.0	17.2	63	sw.			7		5			0.169	4.3		
Sub-series.																			
Upsala	29.16	740.7	29.25	742.9	61.5	16.4	67	s.	19.7	8.8		10		sw.		0.012	0.3		S. G. Fineman.
SWISS.																			
Geneva	28.55	725.2	29.96	760.9	60.6	15.9	57	ssw.			4		10			0.394	10.0	covered	The Observatory
TURKISH.																			
Constantinople			30.07	763.8	77.2	25.1	45	ene.	13	6.0			0			0	0		The Observatory.
Valona			30.11	764.8	83.5	28.6		sw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.89	759.1	84.4	29.1	53	nnw.			2	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.81	757.2	29.89	759.2	72	22.2	82	nw.	1	0.4		0	hz.			0.01	0.3	clear	J. O. Barnes.
Alpena, Michigan	29.39	746.5	30.03	762.7	58	14.4	100	w.	4	1.8			fg.			0	0	dense fog	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.07	636.8	29.79	756.7	61	16.1	93	e.	6	2.7			10 s			0.17	4.3	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.13	689.1	29.88	758.9	54	12.2	74	sw.	4	1.8		0	0			inap.	inap.	clear	B. O. Lenoir.
Atlanta, Georgia	28.91	734.3	30.06	763.5	71.0	21.7	73	nw.	4	1.8		2 c	0			0	0	clear	H. Hall.
Atlantic City, New Jersey	29.88	758.9	29.89	759.2	71	21.7	90	sw.	5	2.2			10 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.90	759.4	30.09	764.3	70	21.1	84	calm	0	0		5 c	0	w.		0	0	fair	John Healy.
Baltimore, Maryland	29.89	759.2	29.94	760.5	72	22.2	84	n.	6	2.7		2 cs	fg	nw.		inap.	inap.	clear	Robert Seyboth.
Barnegat, New Jersey	29.89	759.2	29.91	759.7	71.0	21.7	90	w.	9	4.0			10 k		w.	0.05	1.3	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.33	719.6	29.87	758.7	60	15.6	87	nw.	2	0.9		0	0			0	0	clear	A. Pritchard.
Benton, Fort, Montana	27.17	690.1	29.96	761.0	53	11.7	80	calm	0	0		2 c	0			0	0	clear	S. Wheaton.
Behring Island, Behring Sea	29.91	759.7	29.93	760.2	53.5	11.9		s.	21	9.4			10 s			0.01	0.3	light rain	Dr. L. Steineger.
Bismarck, Dakota	28.08	713.2	29.83	757.7	67	19.4	76	e.	6	2.7		1 k	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	29.86	758.4	29.90	759.4	69	20.6	90	sw.	15	6.7		3 ck	6 s		sw.	0.52	13.2	cloudy	J. T. Elker.
Boise City, Idaho	27.11	688.6	29.86	758.4	57	13.9	64	nw.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.74	755.4	29.89	759.2	66.0	18.9	91	s.	4	1.8			10 s			0.45	11.4	cloudy	O. B. Cole.
Brownsville, Texas	29.85	758.2	29.89	759.2	78.8	26.0	88	se.	4	1.8		0	3 ks			0.02	0.5	clear	M. McCarty.
Buffalo, New York	29.26	743.2	29.99	761.7	64	17.8	93	nw.	4	1.8			10s;fg		nw.	0.05	1.3	cloudy	Clarence Weaver.
Buford, Fort, Dakota	27.93	709.4	29.87	758.7	60	15.6	72	ne.	4	1.8		3 cs	sk.	calm	calm	0.03	0.8	fair	A. H. Bell.
Burlington, Vermont	29.58	751.3	29.87	758.7	67.0	19.4	93	s.	1	0.4			10 s		w.	0.20	5.1	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.66	753.4	30.04	763.0	73.8	23.2	92	w.	2	0.9			10 s		w.	0.07	1.8	threatening.	W. H. Ray.
Campo, California	27.35	694.7	29.85	758.2	51.3	10.7	86	w.	2	0.9		3 ck	0	e.		0	0	clear	W. H. Clendenon
Cape Henry, Virginia	29.92	760.0	29.94	760.5	74	23.3	90	e.	10	4.5		3 c	2 s			0	0	fair	A. K. Alderson.
Cape May, New Jersey	29.88	758.9	29.91	759.7	72.0	22.2	90	s.	10	4.5			10 s			0.04	1.0	cloudy	W. E. Smith.
Cape Mendocino	29.40	746.7			52	11.1	100	n.	28	12.5			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	30.05	763.3	30.07	763.8	79	26.1	77	e.	7	3.1		0	2 k			0	0	clear	F. W. Mixer.
Champaign, Illinois	29.21	741.9	30.00	762.0	70.0	21.1	90	se.	4	1.8		0	5 ks		se.	0	0	fair	L. A. Welsh.
Charleston, S. Carolina	30.01	762.2	30.06	763.5	73	22.8	84	w.	8	3.6		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.17	740.9	30.00	762.0	70.8	24.9	60	sw.	4	1.8		0	sk.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.20	743.2	30.08	764.0	68.0	20.0	90	w.	2	0.9		6 ck	fg.	se.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.10	612.1	29.80	756.9	50.3	10.2	50	nw.	8	3.6		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.30	744.2	29.99	761.7	68.3	20.2	86	ne.	3	1.3		10 k	fg.	ne.		0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	29.90	759.4	29.92	760.0	73	22.8	97	s.	1	0.4			10 s		w.	0.02	0.5	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.39	746.5	30.03	762.7	73.5	23.1	83	sw.	2	0.9			10 n		sw.	1.27	32.3	light rain	J. F. Harrold.
Cleveland, Ohio	29.29	744.0	30.01	762.2	65.2	18.4	92	se.	3	1.3		4 k	fg.	n.		0	0	fair	J. B. Newlin.
Coleman City, Texas	28.23	717.0	29.97	761.2	68	20.0	93	e.	4	1.8			10 n		se.	0.57	14.5	light rain	L. Dorman.
Columbus, Ohio	29.17	740.9	30.00	762.0	68	20.0	93	sw.	2	0.9			10 s		s.	0.41	10.4	cloudy	D. Cuthbertson.
Concho, Texas	28.05	712.5	29.91	759.7	68	20.0	100	ne.	10	4.5			10 n		ne.	6.01	152.7	thund'r st'm	W. W. McConihe.
Custer, Fort, Montana	26.74	679.2	29.80	756.9	62	16.7	54	ne.	2	0.9		0	0			0	0	clear	W. B. Lamar.
Davenport, Iowa	29.34	745.2	29.97	761.2	71	21.7	90	e	5	2.2		4 ck	4 s	w.	s.	0	0	cloudy	R. R. Martin.
Davis, Fort, Texas	25.15	638.8	29.80	756.9	62	16.7	93	calm	0	0			10 s		sw.	0.17	4.3	threatening.	J. Williams.
Dayton, Washington T'y	28.23	717.0	29.94	760.5	53.3	11.8	71	sw.	2	0.9		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.36	644.1	29.80	756.9	57	13.9	67	w.	4	1.8		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					70	21.1	79	se.	10	4.5			10 n		s.	1.53	38.9	light rain	D. J. Carr.
Delaware Breakwater, Del.	29.91	759.7	29.93	760.2	70	21.1	90	sw.	7	3.1		4 ck	5 s	sw.		0.03	0.8	cloudy	T. S. Townsend.
Denison, Texas	29.18	741.2	29.95	761.0	72.3	22.4	97	se.	5	2.2			10 n			0.01	0.3	light rain	J. McGlone.
Denver, Colorado	24.77	629.1	29.79	756.7	57.0	13.9	57	s.	6	2.7		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.10	739.1	29.98	761.5	70	21.1	84	sw.	2	0.9		5 cs	0	w.		0.10	2.5	fair	F. W. Conrad.
Detroit, Michigan	29.34	745.2	30.03	762.7	65.4	18.6	90	ne.	6	2.7			10 s		ne.	0	0	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.37	695.2	29.85	758.2	63	17.2	93	se.	8	3.6		0	0			0.08	2.0	clear	W. M. Mattingly.
Dubuque, Iowa	29.30	744.2	29.99	761.7	70.7	21.5	89	se.	4	1.8		6 ck	hz.	nw.		0	0	fair	J. Harvey Smith.
Duluth, Minnesota	29.26	743.2	29.98	761.5	60	15.6	100	ne.	4	1.8			fg.			0	0	dense fog	N. B. Conger.
Eagle Pass, Texas	29.12	739.6	29.91	759.7	77.0	25.0	82	se.	4	1.8		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.24	641.1	29.79	756.7	53	11.7	48	n.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.80	756.9	29.87	758.7	61.0	16.1	78	calm	0	0		2 c	hz.			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.22	691.4	29.86	758.4	64	17.8	84	calm	0	0			fg.			0	0	dense fog	W. J. Cundall.
El Paso, Texas	26.23	666.2	29.83	757.7	64	17.8	93	calm	0	0		0	0			0.15	3.8	clear	J. F. Marshall.
Erie, Pennsylvania	29.28	743.7	29.99	761.7	70	21.1	84	calm	0	0		5 k	0			0.08	2.0	fair	Peter Wood.
Escanaba, Michigan	29.39	746.5	30.03	762.7	59.0	15.0	90	calm	0	0		3 c	fg.			0	0	clear	George Heathcote.
Fredericksburg, Texas	28.23	717.0	29.94	760.5	72	22.2	97	w.	2	0.9		3 cs	7 s		w.	0	0	cloudy	Frank Halwegler.
Galveston, Texas	29.90	759.4	29.95	760.7	81	27.2	79	s.	8	3.6		2 c	6 k		se.	0.09	2.3	cloudy	E. O'C. Machernev.
Grand Haven, Michigan	29.35	745.5	30.00	762.0	66.0	18.9	93	ne.	3	1.3			fg.			0	0	dense fog	W. A. Reid.
Grant, Fort, Arizona	25.24	641.1	29.81	757.2	60.9	16.1	84	n.	3	1.3		0	0			0.31	7.9	clear	Robert C. Lord.
Hatteras, North Carolina	29.94	760.5	29.96	761.0	76	24.4	85	nw.	13	5.8		3 c	hz.			0.05	1.3	clear	R. M. Crawford.
Helena, Montana	25.80	655.3	29.89	759.2	67	19.4	44	sw.	2	0.9		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	28.98	736.1	29.98	761.5	71.0	21.7	100	se.	6	2.7			10 n			0.15	3.8	heavy rain	J. W. Byram.
Huron, Dakota	28.53	724.6	29.87	758.7	63.1	17.3	90	se.	6	2.7		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.23	742.4	30.00	762.0	70	21.1	90	sw.	3	1.3		4ck;cs	3 s;fg	w.	sw.	0.57	14.5	fair	O. Schutze
Indianola, Texas	29.90	759.4	29.93	760.2	79.0	26.1	91	s.	7	3.1		3 cs	2 ks		s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.78	731.0	29.90	759.4	69	20.6	100	se.	5	2.2			10 n			0.50	12.7	light rain	J. P. Sherry.
Jacksonville, Florida	30.04	763.0	30.08	764.0	75	23.9	85	calm	0	0		2 cs	fg.			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.39	695.7	29.82	757.4	59	15.0	67	sw.	2	0.9		4 c	sk.	sw.		0	0	fair	A. Schneider.
Keokuk, Iowa	29.33	745.0	29.96	761.0	73.0	22.8	94	s.	1	0.4			10 s			0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	29.97	761.2	29.99	761.7	81.0	27.2	79	ne.	2	0.9			10 ks		ne.	0.10	2.5	cloudy	R. H. Paxton.
Kittyhawk, North Carolina	29.94	760.5	29.96	761.0	73	22.8	84	nw.	9	4.0		2 c;hz	1 k	w.	w.	0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.07	738.4	30.08	764.0	66	18.9	100	w.	2	0.9			fg.			0	0	dense fog	J. A. Cody.
La Crosse, Wisconsin	29.24	742 7	29.98	761.5	73	22.8	82	se.	3	1.3			10 s			0.62	15.7	cloudy	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.10	739.1	29.96	761.0	70	21.1	84	se.	2	0.9		4 ck	fg.	sw.		inap.	inap.	fair	A. W. Browne.
Lewiston, Idaho	29.08	738.6	29.89	759.2	63.5	17.5	57	calm	0	0		3 k	0	s.		0	0	clear	W. Bell.
Little Rock, Arkansas	29.70	754.4	30.01	762.2	69	20.6	93	e.	1	0.4		4 ck	5 ks	w.	w.	0.53	13.5	cloudy	W. U. Simons.
Los Angeles, California	29.55	750.6	29.94	760.5	62	16.7	84	w.	4	1.8		0	0			0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.44	747.8	30.00	762.0	72	22.2	97	s.	5	2.2			10 s			0.74	18.8	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.28	743 7	29.95	760.7	74	23.3	82	w.	4	1.8		3 c	0	w.		1.12	28.4	clear	Lewis Duane.
Mackinaw City, Michigan	29.40	746.7	30.04	763.0	60.0	15.6	97	w.	2	0.9		4 c	0	w.		0	0	fair	F. R. Day.
Macon, Fort, North Carolina	29.97	761.2	29.98	761.5	75	23.9	70	w.	6	2.7		8 ck	0			inap.	inap.	cloudy	F. P. Chaffee.
Madison, Wisconsin	29.03	737.3	30.01	762.2	67	19.4	93	e.	1	0.4			fg.			0	0	dense fog	C. A. Shaw.
Maginnis, Fort, Montana	25.71	653.0			54	12.2	64	nw.	4	1.8		8 cs	0			0	0	cloudy	H. W. Dodge.
McKavett, Fort, Texas	27.75	704.8	29.96	761.0	72	22 2	90	se.	9	4.0			10 ks		se.	0.02	0.5	cloudy	J. E. Thatcher.
Marquette, Michigan	29.30	744.2	30.01	762.2	65	18.3	90	w.	1	0.4		4 k	0	w.		0.01	0.3	fair	J. Gilligan.
Memphis, Tennessee	29.71	754.6	30.04	763.0	71	21.7	100	se.	2	0.9			10 s		se.	0.18	4.6	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.28	743.7	30.02	762.5	62	16.7	100	n.	4	1.8			fg			0	0	dense fog	W. Line.

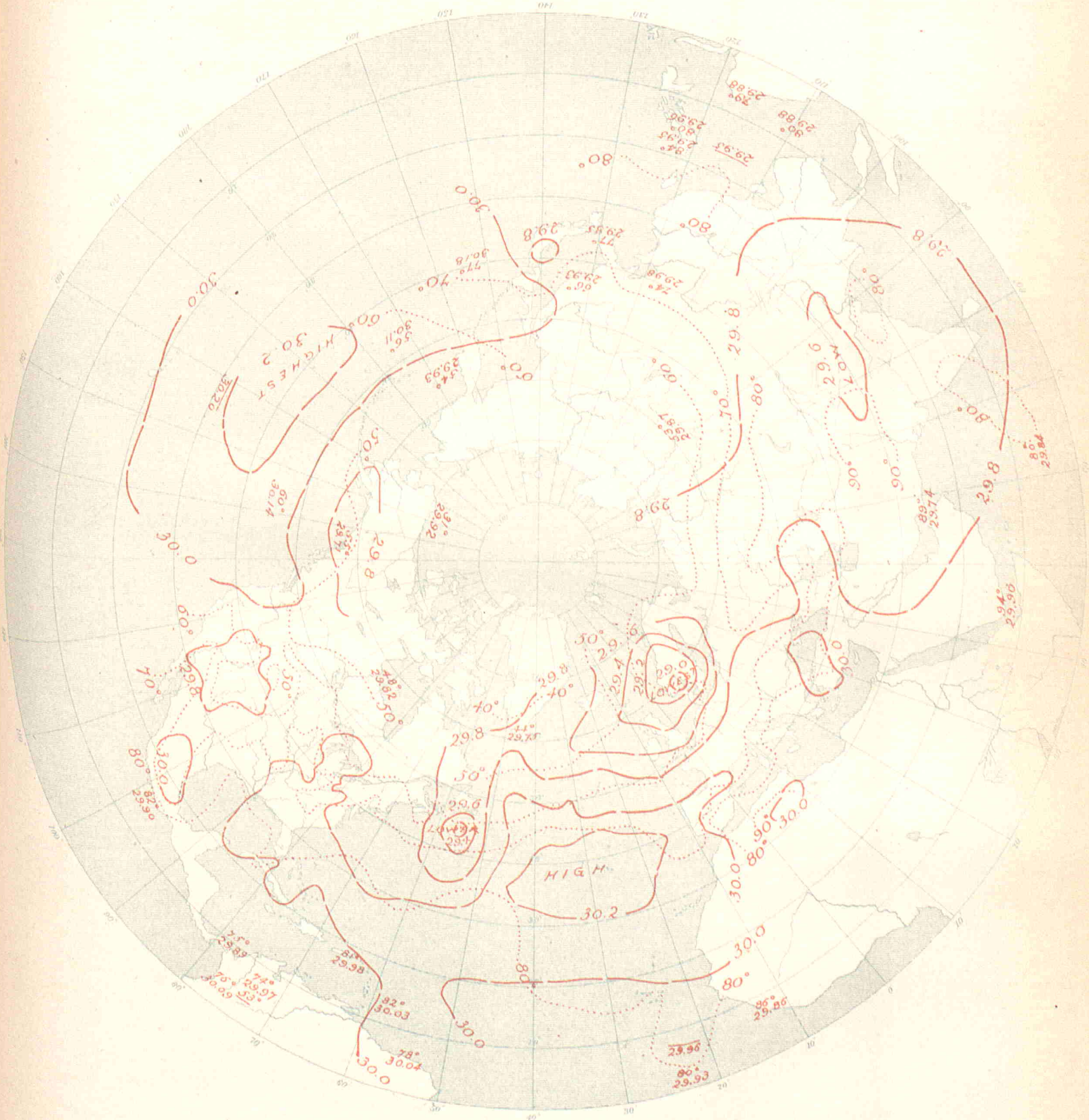
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.72	678.7	29.94	760.5	50	10.0	74	nw.	1	0.4		0	0			0	0	clear	J. H. Jones.
Mobile, Alabama	30.01	762.2	30.05	763.3	75	23.9	94	e.	1	0.4		5 ck	0	sw.		0	0	fair	C. A. Read.
Montgomery, Alabama	29.83	757.7	30.06	763.5	73	22.8	76	se.	1	0.4		9 ck	0	nw.		0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.91	734.3	29.88	758.9	68	20.0	93	se.	6	2.7			9 s			0.67	17.0	cloudy	H. Bessant.
Morgantown, W. Virginia	29.03	737.3	30.03	762.7	67.0	19.4	93	calm	0	0			fg.			0.18	4.6	dense fog	J. C. Spragg, jr.
Mt. Washington, N. H.	23.83	605.3	29.91	759.7	47.0	8.3	93	nw.	7	3.1			10 s		nw.	0	0	cloudy	J. G. Linsley.
Nashville, Tennessee	29.48	748.8	30.04	763.0	71.0	21.7	87	s.	1	0.4		8 ck	hz	sw.		0	0	fair	L. N. Jesunofsky.
New Haven, Connecticut	29.77	756.1	29.88	758.9	69	20.6	90	sw.	3	1.3			10s;fg		sw.	0.01	0.3	cloudy	J. H. Sherman.
New London, Connecticut	29.84	757.9	29.89	759.2	67	19.4	100	s.	6	2.7			10 s			0.65	16.5	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.96	761.0	30.01	762.2	76.7	24.8	91	e.	2	0.9		5 c	sk.	w.		0.98	24.9	fair	L. Dunne.
Newport, Rhode Island	29.86	758.4	29.91	759.7	68.0	20.0	93	sw.	7	3.1			10 s		sw.	0.48	12.2	cloudy	W. McGillivray.
New York, New York	29.74	755.4	29.91	759.7	70	21.1	93	w.	5	2.2		0	fg.			0.07	1.8	clear	J. B. Merrill.
Norfolk, Virginia	29.92	760.0	29.95	760.7	75	23.9	67	nw.	3	1.3		6 cs	0			0.05	1.3	fair	Wm. Davis.
North Platte, Nebraska	27.04	686.8	29.84	757.9	53.6	12.0	86	se.	3	1.3		0	fg.			0.04	1.0	light fog	E. F. Brady.
Olympia, Washington T'y	30.05	763.3	30.09	764.3	51.0	10.6	93	calm	0	0		0	2 s			0	0	clear	J. Dascomb.
Ooglamie, Pt. Barrow, Alas.	29.91	759.7	29.92	760.0	31.0	— 0.6	99	nne.	12	5.4			10 n			0.02	0.5	light snow	P. H. Ray.
Omaha, Nebraska	28.81	731.8	29.95	760.7	71.0	21.7	82	s.	4	1.8			10 s		s.	0	0	cloudy	A. Pollak.
Oswego, New York	29.60	751.8	29.92	760.0	68.8	20.4	85	n.	10	4.5		0	8 k		n.	0.34	8.6	cloudy	S. W. Beall.
Palestine, Texas	29.47	748.5	30.01	762.2	74.5	23.6	94	se.	6	2.7			10 s		s.	inap.	inap.	cloudy	L. M. Pindell.
Pensacola, Florida	30.02	762.5	30.04	763.0	76.7	24.8	88	e.	4	1.8		3 cs	1 ks	w.		inap.	inap.	fair	M. McGauran.
Philadelphia, Pa.	29.82	757.4	29.92	760.0	72	22.2	90	sw.	3	1.3			10s;fg		w.	inap.	inap.	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.01	457.4	29.80	756.9	36	2.2	79	sw.	8	3.6		0	0			0	0	clear	L. M. Dey.
Ploche, Nevada	24.07	611.4	29.77	756.1	65.4	18.6	45	s	2	0.9		0	2 ks			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.20	741.7	29.98	761.5	64.3	17.9	93	nw.	1	0.4			fg.			0.05	1.3	dense fog	J. B. Turton.
Poplar River, Montana	27.79	705.9						ne.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.01	762.2	30.02	762.5	78.0	25.6	91	s.	5	2.2		2 c	6 k		s.	0.58	14.7	cloudy	M. Hermann.
Port Huron, Michigan	29.36	745.7	30.02	762.5	65.4	18.6	87	ne.	7	3.1			10 s		ne.	0	0	cloudy	W. O. Bailey.
Portland, Maine	29.82	757.4	29.87	758.7	66.0	18.9	78	s.	4	1.8		4ck;cs	0	s.		0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.01	762.2	30.08	764.0	54.0	12.2	86	nw.	2	0.9		9 k	0	nw.		0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.					77	25.0	82	se.	15	6.7			10 s			0	0	cloudy	F. S. Coburn.
Prescott, Arizona	24.81	630.2	29.79	756.7	57	13.9	37	s.	2	0.9		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass.	29.86	758.4	29.90	759.4	67	19.4	90	s.	10	4.5		2 k	6 s	sw.		0	0	cloudy	P. T. Jenkins.
Punta Rassa, Florida	30.01	762.2	30.02	762.5	77	25.0	76	ne.	8	3.6		6 ck	0	ne.		inap.	inap.	fair	W. J. Evans.
Red Bluff, California								nw.			1	0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.70	754.4	29.94	760.5	79	26.1	82	se.	6	2.7		0	0			0	0	clear	H. S. Miles.
Rochester, New York	29.31	744.5	29.96	761.0	63	17.2	100	nw.	4	1.8			10s;fg		nw.	0.12	3.0	dense fog	E. W. McGann.
Roseburg, Oregon	29.56	750.8	30.10	764.5	47	8.3	77	e.	1	0.4		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.74	755.4	29.81	757.2	62.8	17.1	73	se.	6	2.7		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.41	747.0	29.99	761.7	73.0	22.8	97	sw.	6	2.7		8 c	0	se.		0	0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.10	739.1	29.94	760.5	70.0	21.1	90	se.	10	4.5		2 ck	0	sw.		0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.01	736.8	29.86	758.4	60	15.6	93	e.	2	0.9		0	fg.			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.59	650.0	29.78	756.4	67	19.4	47	s.	4	1.8		5 k	0	s.		0	0	fair	J. Craig.
San Antonio, Texas	29.23	742.4	29.92	760.0	77.0	25.0	90	se.	1	0.4			10 s		se.	0	0	cloudy	T. J. Kenan.
San Diego, California	29.82	757.4	29.89	759.2	67.3	19.6	77	sw.	2	0.9			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.33	745.0	29.99	761.7	73	22.8	84	e.	6	2.7		0	0			0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	29.87	758.7	29.90	759.4	71.0	21.7	94	w.	10	4.5		5 k	0	w.		0.01	0.3	fair	B. A. Blandon.
San Francisco, California	29.82	757.4	29.90	759.4	53.5	11.9	90	sw.	16	7.2		0	fg.		sw.	0	0	clear	N. Gorom.
Santa Fé, New Mexico	23.30	591.8	29.79	756.7	56	13.3	72	e.	1	0.4		0	0			0.01	0.3	clear	H. U. Jones.
Savannah, Georgia	29.99	761.7	30.08	764.0	77	25.0	76	sw.	4	1.8		5 c	0			0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.37	669.8	29.90	759.4	46	7.8	76	w.	6	2.7		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.75	755.6	29.98	761.5	73	22.8	97	se.	3	1.3			10 s		se.	0.42	10.7	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.73	729.7	29.91	759.7	68.5	20.3	95	se.	5	2.2			10 n			0.22	5.6	light rain	T. Oleary.
Silver City, New Mexico	24.29	617.0	29.75	755.6	56	13.3	67	s.	1	0.4		0	0			0	0	clear	J. B. Wallace.
Sitka, Alaska	29.65	753.1	29.71	754.6	54.5	12.5	80	s.	20	8.9			10 s		s.	0.32	8.1	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.52	749.8	29.98	761.5	69.3	20.7	93	ne.	4	1.8			10 s		e.	0.10	2.5	cloudy	J. B. Campbell.
Smithville, North Carolina	29.98	761.5	30.02	762.5	74	23.3	76	w.	8	3.6		2 ck	6 ks	w.	w.	0	0	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	27.93	709.4	29.93	760.2	47	8.3	71	calm	0	0		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.33	745.0	29.99	761.7	72	22.2	90	se.	1	0.4		2 cs	2s;fg		nw.	0.71	18.0	fair	T. B. Jennings.
Springfield, Massachusetts	29.75	755.6	29.88	758.9	69.4	20.8	93	s.	2	0.9			10 s			0.03	0.8	cloudy	T. S. Outram.
Springfield, Mo.	28.60	726.4	29.99	761.7	66	18.9	84	se.	3	1.3			fg.			inap.	inap.	dense fog	J. B. Marbury.
Starkville, Miss.	29.58	751.3	30.05	763.3	74	23.3	90	calm	0	0			fg.			1.61	40.9	dense fog	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.04	712.2	29.82	757.4	62	16.7	93	se.	2	0.9		0	9 k			0	0	cloudy	W. Burrows.
Stockton, Fort, Texas	26.92	683.8	29.86	758.4	67.0	19.4	93	calm	0	0		0	6 s		s.	0.38	9.7	fair	J. O'Dowd.
Thomas Camp	27.17	690.1	29.79	756.7	69	20.6	90	w.			1	0	1 k			0	0	clear	
Thatcher's Island, Mass.	29.84	757.9	29.89	759.2	63.5	17.5	91	s.	5	2.2			10 s			0	0	cloudy	G. Liebmann.
Toledo, Ohio	29.33	745.0	30.00	762.0	71	21.7	90	nw.	8	2.7			10 s			0.07	1.8	cloudy	A. Buell.
Tucson, Arizona	27.40	697.5	29.80	756.9	73	22.8	84	se.	3	1.3			9 s			0	0	cloudy	J. L. Whiteside.
Umatilla, Oregon	29.61	752.1	29.97	761.2	61	16.1	60	w.	5	2.2		0	0			c	0	clear	J. Daly.
Uvalde, Texas	28.96	735.6	29.90	759.4	75	23.9	90	s.	4	1.8			10 s		s.	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona					70.2	21.2	62	nw.			1	0	0			0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.79	756.7	30.03	762.7	72	22.2	97	e.	6	2.7		1 ck	8 s	w.	e.	inap.	inap.	cloudy	James Kenealy.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.52	622.8	29.86	758.4	49.0	9.4	50	w.	6	2.7		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	29.84	757.9	29.96	761.0	70.8	21.6	89	nw.	5	2.2		0	0			0.08	2.0	clear	F. M. M. Beall.
West Las Animas, Colorado	26.00	660.4	29.75	755.6	57	13.9	77	w.	3	1.3		0	0			0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.37	746.0	29.95	760.7	67	19.4	87	w.	1	0.4		0	2 k		w.	0.60	15.2	clear	B. F. Hough.
Wilmington, N. Carolina	29.90	761.0	30.01	762.2	75	23.9	76	w.	5	2.2		5 ck	0			0	0	fair	Samuel A. Haney.
Winnemucca, Nevada	25.58	649.7	29.81	757.2	59.5	10.3	30	sw.	8	3.6		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.64	727.4	29.91	759.7	66	18.9	90	calm	0	0		0	fg.			inap.	inap.	clear	J. H. Atfield.
Yuma, Arizona	29.57	751.1	29.71	754.6	79.5	26.4	68	n.	1	0.4		0	1 s			0	0	clear	O. D. Stewart.
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6			53.0	11.7	71	s.	1	0.4		3 k	6 ks; s			0.24	6.1	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.02	762.5	30.03	762.7	82	27.8	78	se.				0	5 ks			0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.06	763.5	30.09	764.3	76	24.4	95	ne.	4	1.8			10 n		n.	2.20	55.9	raining	J. I. Plume.
Havana, Cuba	29.94	760.5	30.00	762.0	74	23.3	82	calm	0	0		0	0			0.63	16.0	clear	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	29.96	761.0	29.97	761.2	77.2	25.1	84	calm	0	0		9 cs	1 s			0.31	7.9	cloudy	Robert Johnston.
Magua, San Domingo, W. I					77	25.0		calm			0	3 cs	0	se.		0	0		S. M. Pike.
Navassa, W. I.	29.82	757.4	29.90	759.4	82.5	28.1	78	ne.	8	3.6		4 cs	3 k	ne.	e.	0	0	cloudy	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	78	25.6	91	e.			1	4 c	0			0.130	3.3		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.41	747.0	29.97	761.2	74	23.3	89	s.			1		10 ks		calm	1.06	26.9	raining	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77	25.0	94	ne.			1	0	2 ks		ne.	0.03	0.8	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.73	755.1	29.78	756.4	47	8.3	93	n.			5	6 cs	0			0.02	0.5	fair	W. J. Fisher.
St. Thomas, W. I.	30.00	762.0	30.13	765.3	81	27.2	82	ene.				1 c	3 k		ene.	0.02	0.5	fair	Aug. Walloe.
York Factory, B. A.	29.76	755.9	29.82	757.4	48.0	8.9	92	sw.	3	1.3			10 s		sw.	1.40	35.6	cloudy	Fortescue & Wood.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, Horta Bay, Fayal Island	30.31	769.9	76.5	24.7	74	ne.			2–3		6							d. clouds.
H. M. S. Alexandra, Port Said, Egypt	29.90	759.4	80.5	26.9	73	nw.			1		0							blue sky.
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.14	765.5	70	21.1	84	calm			0		1							blue sky.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.95	760.7	75	23.9		n.			4–5		3	nnw.						d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.18	766.6	68.5	20.3		calm			0		0							blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	30.06	763.5	54	12.2	93	wsw.			2		6							squally.
H. M. S. Diamond, S. 19° 10′, E. 156° 38′	30.08	764.0	71.5	21.9	69	se.			4–6		2					2	se.	d. clouds.
H. M. S. Dido, N. 17° 55′, W. 77° 00′	30.00	762.0	80	26.7		calm			0		0							blue sky.
H. M. Dock Yard, Bermuda, W. I.	29.96	761.0	77.5	25.3	69	wnw.			1		4	wnw.						d. clouds.
H. M. S. Eclipse, N. 30° 15′, E. 32° 30′	29.62	752.3	87.5	30.8		n.			1		5							d. clouds.
H. M. S. Fantome, N. 13° 26′ W. 60° 36′	29.98	761.5	84	28.9		e.			3		2	e.				3	e.	d. clouds.
H. M. S. Flying Fish, N. 37° 21′, E. 126° 00′	29.91	759.7	78.5	25.8	88	nw.			2		1							blue sky.
H. M. S. Gannet, S. 2° 12′, W. 79° 31′	29.96	761.0	67.5	19.7	87	sw.			3		10	ne.						d. clouds.
H. M. S. Griffon, N. 46° 48′, W. 54° 12′	29.78	756.4	55.5	13.1	74	ese.			7		3					8	ese.	showery.
H. M. S. Iron Duke, N. 39° 10′, E. 127° 23′	29.82	757.4	70	21.1	95	calm			0		4							d. clouds.
H. M. S. Lark, S. 1° 28′, E. 161° 59′	29.95	760.7	76.3	24.6	84	se.			2		7					2	se.	showery.
H. M. S. Liffey, Coquimbo, Chili	30.14	765.5	68	20.0		calm			0									d. clouds.
H. M. S. Magpie, N. 35° 09′, E. 128° 42′	29.95	760.7	76.5	24.7	77	se.			1		8	nw.				2	sw.	misty.
H. M. S. Minotaur, Alexandria, Egypt	29.91	759.7	80	26.7	76	nw.			1		1							blue sky.
H. M. S. Northampton, N. 47° 03′, W. 62° 25′	29.79	756.7	61	16.1	97	nne.			4		9	nne.				1	nne.	d. clouds.
H. M. S. Pegasus, N. 5° 53′, E. 116° 00′	29.88	758.9	79	26.1	90	s.			1		10							d. clouds.
H. M. S. Sappho, N. 20° 11′, W. 155° 52′	30.00	762.0	75	23.9	95	ese.			3–4		3							squally.
H. M. S. Swiftsure, Coquimbo, Chili	30.25	768.3	53	11.7	93	sw.			1									
H. M. S. Sylvia, Montevideo, Uruguay	29.82	757.4	55.5	13.1	93	s.			5		10							squally.
H. M. S. Tenedos, N. 48° 07′ W. 52° 50′	29.97	761.2	54	12.2	100	ene.			4–5		10					3	ene.	raining.
H. M. S. Triumph, Rio de Janeiro, Brazil	30.15	765.8	67	19.4	84	n.			1–2		2	nne.				3	nne.	d. clouds.
H. M. S. Woodlark, Jask, Persia	29.64	752.8	88.5	31.4	69	sse			2–3		2	ne.				1	s.	d. clouds.
Portuguese Naval.																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.06	763.5	82.4	28.0	88	ne.			3		2					1	se.	d. clouds.
Tamega, Macao, China	29.95	760.8	82.4	28.0	85	sw.			2		8							overcast.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.98	761.5	78	25.6	91	e.	4	1.8			8		ese.	0	0			fair.
Navy Yard, Portsmouth, N. H	29.91	759.7	64	17.8	83	calm	0	0			9		w.	0	0			cloudy.
Naval Hospital, Yokohama, Japan*	29.79	756.7	75	23.9	86	sw.			3		10		ssw.	sll't	sll't			sprinkling.
Adams, Mare Island, Cal			57	13.9	87	sw.			4		0			0	0	sm'h		clear.
Alaska, N. 5° 00′, W. 135° 15′	29.89	759.2	77	25.0	82	e.			5		10		e.	0	0	sm'h		cloudy.
Alliance, N. 42° 47′, W. 69° 46′	29.91	759.7	66	18.9	?	ssw.			2		10			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan*	29.78	756.4	76	24.4	95	s.			3		10		ssw.					raining.
Brooklyn, Rio de Janeiro, Brazil	30.17	766.3	71	21.7	90	n.	3	1.3			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	29.89	759.2	72	22.2	90	sw.	2	0.9			2			0.06	1.5			fair.
Constellation, Chesapeake Bay*	29.98	761.5	74	23.3	81	nw.			3		8		nw.					fair.
Essex, Coquimbo, Chili	30.23	767.8	54	12.2	80	sse.			0–1		2					sm'h	sse.	clear.
Franklin, Norfolk, Va	29.96	761.0	74	23.3	90	wnw.	7	3.1			2		wnw.	0.02	0.5			fair.
Galena, N. 4° 00′, W. 23° 10′	30.03	762.7	80	26.7	91	sse.			3		2		sse.			mod.	sse.	clear.
Hartford, N. 38° 08′, W. 23° 15′*	30.24	768.1	72	22.2	76	ene.			5		2		ene.	0	0	sm'h	ne.	clear.
Independence, Mare Island, Cal	29.92	760.0	56	13.3	100	sw.			5		0			0	0			clear.
Iroquois, N. 15° 40′ W. 98° 42′	29.90	759.4	82	27.8	71	ne.			1		10		ne.			sm'h	nne.	cloudy.
Kearsarge, Portsmouth, N. H	29.90	759.4	62	16.7	100	calm			0		8		nw.			sm'h		fair.
Lackawanna, Callao, Peru*	30.01	762.2	61	16.1	88	calm			0		8		sw.					cloudy.
Lancaster, Villafranca, France*	29.85	758.2	75	23.9	95	sw.			1		10		calm					cloudy.
Marion, S. 34° 54′, W. 56° 13′	29.79	756.7	59	15.0	88	se.			5		10		sse.			mod.	sse.	cloudy.
Michigan, Mackinaw, Michigan	30.01	762.2	59	15.0	94	w.			1		2							fair.
Minnesota, New York, N. Y.	29.96	761.0	70	21.1	?	wsw.	2	0.9			2							hazy.
Monocacy, N. 37° 27′, E. 126° 33′	29.95	760.7	79	26.1	66	nne.			2		2		n.					fair.
New Hampshire, Newport, R. I	29.90	759.4	69	20.6	90	s.			3		10		ssw.			sm'h		overcast.
Nipsic, N. 41° 40′ E. 10° 48′*	29.90	759.4	78	25.6	82	se.			3		2					sm'h	se.	clear.
Onward, Callao, Peru†	30.15	765.8	59	15.0	94	calm			0		8		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.73	755.1	76	24.4	91	nw.			1		10		nw.					cloudy.
Passaic, Washington, D. C			72	22.2	95	nw.			1		5							fair.
Pensacola, Payta, Peru*	29.96	761.0	62	16.7	88	ese.	8	3.6			10			0	0	sm'h		cloudy.
Portsmouth, Gibraltar, Mediterranean*	29.89	759.2	77	25.0	65	wsw.			3		2					sm'h		clear.
Powhatan, Norfolk, Va	29.95	760.7	75	23.9	95	w.			1		8		w.					cloudy.
Quinnebaug, Alexandria, Egypt*	29.88	758.9	80	26.7	78	nnw.			3		0							clear.
Ranger, Mare Island, Cal	29.89	759.2	58	14.4	82	sw.			3–5		0			0	0			clear.
Richmond, Yokohama, Japan*	29.80	756.9	76	24.4	91	sse.			3		10		s.	0	0			threatening.
Saratoga, Gibraltar, Mediterranean	29.90	759.4	84	28.9	79	w.			2		2			0	0			fair.
St. Louis, League Island, Pa	30.14	765.5	73	22.8	90	wsw.			2		10			0	0			cloudy.
Swatara, N. 6° 53′, E. 107° 03′*	29.73	755.1	84	28.9	75	calm			0		8		se.			sm'h		fair.
Tennessee, N. 42° 54′ W. 69° 44′†	29.94	760.5	68	20.0	95	sw.	11	4.9			10		wsw.	0	0			threatening.
Vandalia, Portsmouth, N. H*	29.86	758.4	63	17.2	94	calm			0		9		w.					cloudy.
Wabash, Boston, Mass	29.90	759.4	65	18.3	94	sw.	4	1.8			10		sw.	0.54	13.7			raining.
Wachusetts, Fort Wrangle, Alaska †	29.95	760.7	52	11.1	86	ene.			2		10		calm			sm'h		overcast.
Wyoming, Port Royal, S. C*	30.02	762.5	73	22.8	85	w.	7	3.1			2		sw.	0	0			clear.
Yantic, N. 42° 50′ W. 69° 55′	29.89	759.2	66	18.9	89	sw.			4		8					sm'h		cloudy.
Merchant Marine.																		
Allan Line.																		
S. S. Circassian, N. 55° 35′, W. 36° 30′*	29.70	754.4	48	8.9	85	nw.			6		7		nw.	inap.	inap.	4	nw.	d. clouds.
S. S. Grecian, Ismailia, Egypt*	29.85	758.2	90	32.2		n.			4		0			0	0			clear.
S. S. Nova Scotian, N. 46° 20′, W. 54° 13′	29.63	752.6	59	15.0		e.			4		10		sw.			sll't	s.	hazy.
S. S. Scandinavian, N. 47° 15′, W. 46° 25′*†	29.84	757.9	60	15.6		e.			3		10		e.	18 h'r	18 h'r	light	cf'd	drizzling.
S. S. Waldensian, N. 50° 10′, W. 46° 35′*	30.12	765.0	53	11.7		ese.			3		8		s.	sh'rs	shr's	mod.	ssw.	showery.
American Steamship Company.																		
S. S. British Crown, N. 41° 45′ W. 56° 50′†	29.57	751.1	66	18.9		sw.			6		10		wsw.	13 h'r	13 h'r	cf'd	cross	overcast.
S. S. Indiana, Philadelphia, Pa.†	29.91	759.7	75	23.9	90	w.			2		5		w.					fine.
S. S. Lord Clive, N. 52° 50′ W. 5° 20′*†	29.50	749.3				wnw.			5		6		nw.	0	0	sm'h		cloudy.
S. S. Lord Gough, Philadelphia, Pa	29.86	758.4	70	21.1		sw.			2		10			0	0			hazy.
S. S. Ohio, N. 49° 10′, W. 26° 48′†	29.87	758.7	75	23.9	95	w.			5		10		w.			mod.	w.	showery.
Amsterdam Line.																		
S. S. Stella, N. 41° 27′, W. 55° 06′	29.55	750.5	75.2	24		s.			6		7		e.	12 h'r	12 h'r	8	se.	squally.
Anchor Line.																		
S. S. Alexandria, N. 36° 58′, W. 8° 40′	30.00	762.0	67.8	19.9		wnw.			5		1		nw.	0	0	4	nw.	
S. S. Bolivia, New York, N. Y. *†	29.88	758.9	80	26.7		wsw.			1		0			2 h'r	2 h'r			
S. S. Devonia, N. 50° 40′, W. 33° 45′†	30.01	762.2	56	13.3		wnw.			4		9		wnw.			short	nw.	cloudy.
S. S. Dorian, N. 41° 00′, W. 54° 28′ *	29.57	751.1	70	21.1		sw.			7		8?		w.	12 h'r	12 h'r	h'vy	w.	clear.?
S. S. Utopia, N. 53° 25′, W. 4° 27′†	29.77	756.1	62	16.7	77	w.			4		10		wnw.	0	0	h'vy	nw.	cloudy.
Atlas Line.																		
S. S. Alene, Savanilla, U. S. C.†	29.85	758.2																
S. S. Alpin, N. 25° 42′ W. 74° 00′	29.97	761.2				ene.			3		10		ne.	4 h'r	4 h'r		ne.	
S. S. Antillas, Port au Prince, Hayti, W. I.†	29.75	755.6	90	32.2		e.			4		10							overcast.
British Meteorological Office.																		
Auckland, S. 45° 41′, E. 107° 43′	29.76	755.9	45	7.2	92	wnw.			4		8							drizzling.
S. Baroda, N. 25° 01′, W. 38° 58′	30.05	763.3	77.5	25.3	86	nne.			5		9							d. clouds.
S. S. Cipero, N. 11° 54′, W. 60° 34′	29.99	761.7	86.0	30.0	72	ene.			3		2							blue sky.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH METEOROLOGICAL OFFICE.—Continued.																		
S. S. British Merchant, N. 17° 45′, W. 25° 30′	30.01	762.2	76.8	24.9	90	sw.			2		8							showery.
S. S. City of Agra, S. 39° 54′, E. 64° 29′	30.21	767.3	53	11.7	69	wsw.			5		10							overcast.
Bk. Caldew, S. 37° 15′, E. 38° 26′	30.30	769.6	64.3	17.9	92	nnw.			6		7							d. clouds.
S. S. Humboldt, S. 33° 57′, W. 52° 20′	29.81	757.2	58.5	14.7	94	n.			5		9					con.		overcast.
S. S. Minho, S. 34° 36′, W. 58° 10′	29.79	756.7	57.6	14.2	94	s.			3		10							thund'r st'm
S. S. Oamarn, N. 36° 32′, W. 35° 30′	30.32	770.1	77.2	25.1	72	e.			4		1							blue sky.
S. S. Rosetta, N. 6° 48′, E. 64° 34′	29.84	757.9	79.5	26.4	78	wsw.			4		8							d clouds.
CROMWELL LINE.																		
S. S. Hudson, N. 25° 05′, W. 83° 55′†	30.16	766.1	83	28.3		e.			2		2		e.	0	0	light	ene.	fair.
CUNARD LINE.																		
S. S. Gallia, N. 40° 28′, W. 68° 22′	29.94	760.5	70	21.1	95	sw			2		0			0	0	mod.	sw.	clear.
S. S. Marathon, Lake Ismalia, Egypt	30.03	762.7	84	28.9		nnw.			1		0			0	0	sm'h	nnw.	clear.
S. S. Scythia, N. 48° 11′ W 34° 35′	29.95	760.7	65	18.3	100	wnw.			2		8		w.	8 h'r	8 h'r	slight	wsw.	gloomy.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N. 40° 26′, W. 71° 36′†	29.83	757.7	66.2	19		ssw.			3	1 c		s.		0	0		ne.	clear.
GUION LINE.																		
S. S. Arizona, N. 42° 57′ W. 60° 00′	29.58	751.3	74	23.3		nw.			6		10		wnw.	shr's	shr's	high	e.	overcast.
S. S. Wisconsin, N. 50° 05′, W. 37° 00′	29.96	761.0	58	14.4		wnw.			4		10		nw.	6 h'r	6 h'r	mod.	nw.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Frisa, N. 48° 48′ W. 30° 00′*	29.92	760.0	61.5	16.4		wnw.			5		10		wnw.	4 h'r	4 h'r	long	wsw.	drizzling.
S. S. Herder, New York, N. Y*	29.64	752.8	81	27.2		wnw.			1		0			1 h'r	1 h'r			clear.
S. S. Silesia, N. 40° 50′, W. 66° 41′	29.94	760.5	67	19.4		nw			5					0	0	3	nw.	fair.
S. S. Vandalia, N. 50° 01′. W. 4° 21′*	29.74	755.4	59.0	15.0		sw.			6		8		w.	0	0	mod.	sw.	cloudy.
JOHNSTON LINE.																		
S. S. St. Albans, N. 46° 17′, W. 32° 50′*†	30.28	769.1	70	21.1		wsw.			6		9		w.	0	0	sm'h		hazy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, S. 12° 00′ W. 38° 00′*†	30.32	770.1	77	25.0		se.			6		2		sse.	0	0	long	se.	clear.
MALLORY LINE.																		
S. S. City of San Antonio, New York Bay, N. Y *†	30.04	763.0				calm			0					0	0			hazy.
S. S. Colorado, New York, N. Y†	29.90	759.4	70	21.1		w.			1		0			2 h'r	2 h'r			clear.
S. S. San Marcos, Galveston, Texas	30.05	763.3				ssw.												fine.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Naples, Italy *†	30.00	762.0	81	27.2	66	w.			2		0			0	0			clear.
MERCHANTS' EXPRESS LINE.																		
S. S. Hermod, N. 48° 20′, W. 17° 28′†	29.99	761.7	64.4	18		wsw.			6		10		sw.	6 h'r	6 h'r	r'gh	nnw.	threatening.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 35° 55′ W 74° 22′	29.62	752.3				e.			1		2		s.	0	0	mod.	ne.	fair.
S. S. Glenapp, Bahia, Brazil†	30.06	763.5				se.			3		5		se.	2 h'r	2 h'r			showery.
MORGAN LINE.																		
S. S. Chalmette, New York, N. Y.†	29.91	759.7	77	25.0		wnw.			2		3		nw.	2 h'r	2 h'r			fair.
S. S New York, N. 24° 47′, W. 80° 45′†	29.90	759.4	80	26.7		var.			4		10			sq'lls	sq'lls	small	ene.	overcast.
NATIONAL LINE.																		
S. S. Denmark, Havre, France	29.67	753.6	68	20.0		sw.			6		10		sw.	0	0			squally.
S. S. Erin, N. 40° 02′, W. 47° 58′	29.95	760.7	75	23.9	77	s.			8		6		s.	4 h'r	4 h'r	high	ssw.	gloomy.
S. S. Helvetia, Liverpool, Eng	29.37	746.0	60	15.6		w.			6		10		wsw.	10 h'r	10 h'r			raining.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, Cienfuegos, Cuba, W. I†	30.02	762.5	84	28.9		nne.			1		1			0	0			fine.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Progreso Roads, C. A†	30.00	762.0	82	27.8	79	ne.			3		2		ne.	0	0			clear.
S. S. City of Puebla, New York Bay, N. Y†	29.91	759.7	79	26.1		wsw.			4		10		w.			mod.	sw.	cloudy.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Amsterdam, N. 43° 26′ W. 61° 20′*	29.70	754.4	66	18.9		nnw.			4								ne.	cloudy.
S. S. Lone Star, N. 29° 38′, W. 88° 45′*†	30.07	763.8	80	26.7		se.			2							sm'h		cloudy.
S. S. Maas, N. 48° 50′, W. 17° 34′*	29.77	756.1	63	17.2		wsw.			7									raining.
NORTH GERMAN LLOYD.																		
S. S. Donau, N. 44° 53′, W. 42° 35′	30.18	766.6				s.			4		2		s.	0	0	mod.	s.	fair.
S. S. Elbe, off Start Point, England	29.74	755.4	60.8	16.0	73	wnw.			4-6		8		wnw.	0	0	sm'h	wnw.	covered.
S. S. Gen. Werder, N. 43° 39′, W. 56° 32′	29.19	741.4				s.			8		10			12 h'r	12 h'r	h'vy	s;sw	threatening.
S. S. Graf Bismark, S. 17° 39′, W. 38° 30′	30.35	770.9	74.3	23.5		ene.			4		2		ese.	0	0	light	ese.	clear.
S. S. Habsburg, N. 43° 49′, W. 42° 42′	30.16	766.1	75.2	24.0		ssw.			4		0			0	0	mod.	ssw.	fair.
S. S. Ohio, N. 43° 33′, W. 43° 17′	30.18	766.1				ssw.			5		2		s.	0	0	mod.	ssw.	fair.
S. S. Salier, N. 53° 03′, E. 3° 58′	29.58	751.3	54.5	12.5		wsw.			6		5		wsw.	0	0	cross	wsw.	fair.
S. S. Strassburg, N. 48° 49′, W. 36° 27′	30.06	763.5	62.0	16.7	88	nw.			3		10		nw.	12 h'r	12 h'r	sm'h	nw.	covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 46° 00′, E. 170° 44′†	30.11	764.8	56	13.3	100	nnw.			3		5		nw.	0	0	sm'h		fine.
S. S. Belgic, Hong Kong, China†	30.08	764.0	83	28.3	87	calm			0		10		sw.	0	0			cloudy.
S. S. Coptic, N. 44° 58′, W. 143° 41′	30.14	765.5	60.0	15.6	?	sw.			4		10		w.	6 h'r	6 h'r	3	w.	showery.
S. S. Gaelic, Hong Kong, China†	29.99	761.7	76	24.4	100	sw.			4		10		sw.			sm'h		raining.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, New York, N. Y.†	29.95	760.7				wnw.			1		0			0	0			clear.
S. S. Seminole, Savannah, Ga†	30.12	765.0	78	25.6	86	sw.			1		1		sw.	0	0			clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter.†	30.14	765.5	56	13.3	87	s.			1		0							fair.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 40° 37′, W. 124° 28′†	30.00	762.0	55	12.8	84	nnw.			5		0					mod.	nnw.	clear.
S. S. Oregon, San Francisco, Cal†	29.89	759.2	55	12.8	93	calm			0		10							gloomy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Francisco, Cal†	29.82	757.4	53	11.7	86	w.			3		0							clear.
S. S. City of Chester, San Francisco, Cal			54	12.2	93	nw.			1		0							clear.
S. S. Idaho, Victoria, B. C †	30.06	763.5	55	12.8	87	sw.			3		0			0	0			clear.
S. S. State of California, Portland, Oregon †	30.13	765.3	53	11.7	93	calm			0		5		sw.					fdr.
S. S. Victoria, Nanaimo, Vancouver's Island †	29.98	761.5	55	12.8	80	se.			1		2			0	0	sm'h		clear.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 6° 02′, W. 164° 48′	29.85	758.2	80	26.7	91	ne.			5		10		nne.	6 h'r	6 h'r	mod.	nne.	hazy.
S. S. City of New York, Sydney, N. S. W†	30.41	772.4	63	17.2	78	w.			1		8		w.	0	0			cloudy.
S. S. City of Pekin, N. 30° 40′, E. 129° 43′†	30.06	763.5	77	25.0	91	ssw.			5		10		ssw.	0	0	small	ssw.	cloudy.
S. S. City of Tokio, N. 39° 11′ E. 152° 11′†	30.18	766.6	77	25.0	69	se.			4		10		se.	2 h'r	2 h'r	small	s.	cloudy.
S. S. Colima, Panama, Panama†	29.89	759.2	75	23.9	95	wnw.			2		8		nw.	0.25	6.3			cloudy.
S. S. Colon, N. 32° 20′, W. 73 57′ †	30.09	764.3	80	26.7		nw.			2		9		nw.	0	0	mod.	e.	cloudy.
S. S. Costa Rica, N. 34° 10′, W. 120° 30′ *	29.92	760.0	59	15.0	88	nw.			2		4		nw.	0	0	h'vy	nw.	hazy.
S. S. Clyde, N. 23° 18′, W. 110° 44′†	29.89	759.2	76	24.4	82	nnw.			3		2		ne.	0	0	long	sse.	clear.
S. S. Grenada, N. 27° 26′, W. 114° 53′†	29.87	758.7	66	18.9	89	wnw.			2		10		nw.	1 h'r	1 h'r	sm. h	wnw.	clear.
S. S. Zealandia, S. 34° 00′ E. 151° 13′	30.41	772.4	60	15.6		ne.			2		0					sm'h		clear.
QUEBEC STEAMSHIP COMPANY.																		
S. S. Bermuda, N. 24° 00′, W. 66° 10′†	30.06	763.5	85	29.4		e.			1		5		e.	0	0	long	var.	fine.
S. S. Muriel, N. 22° 20′, W. 65° 00′	30.06	763.5	84	28.9		e.			4		10			0	0	mod.	ne.	overcast.
RED D LINE.																		
S. S. Caracas, N. 10° 37′, W. 66° 58′*†	29.90	759.4				calm			0		2		e.	0	0		ne.	fine.
S. S. Valencia, N. 25° 52′, W. 69° 33′*†	30.22	767.6	82	27.8	83	nne.			3		8		ne.	0	0	h'vy	n.	overcast.
RED STAR LINE.																		
S. S. Belgenland, N. 44° 00′, W. 42° 09′†	30.35	770.9	79	26.1	82	ssw.			4		9			0	0	sm'h	n.	
S. S. Nederland, N. 44° 44′, W. 49° 00′			65	18.3	94	se.			6		10		ese.			mod.	ese.	foggy.
S. S. Pennland, New York, N. Y.	29.78	756.4				sw.			5		10		se.	0	0			overcast.
S. S. Rhynland, N. 40° 40′, W. 66° 30′	30.08	734.0	70	21.1	80	w.			2		0			0	0	sm'h		clear.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE—Continued.																		
S. S. Vaderland, Antwerp, Belgium	29.59	751.6	64	17.8	62	ssw.			6		2		sw	0	0			clear.
S. S. Waesland, N. 50° 31′ W. 1°, 03′	29.68	753.9	62	16.7	66	wsw.			5		10		w.	sh'rs	sh'rs	mod.	w.	cloudy.
ROTTERDAM LINE.																		
S. S. Edam, Amsterdam, Holland	29.78	756.4	58.0	14.4	97	w.			6		8		w.	7 h'r	7 h'r			squally.
S. S. Schiedam, N. 46° 34′, W. 36° 00′	30.10	764.5	69.4	20.8	90	nne.			5		2		n.	3 h'r	3 h'r	mod.	sw.	raining.
S. S. W. A. Scholten, Rotterdam, Holland*	29.43	747.5	62.7	17.1	66	wnw.			5		9		wnw.	6 h'r	6 h'r			drizzling.
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, N. 18° 16′, W 76° 21′	29.95	760.7	82	27.8		calm			0		2		ene.	0	0	g'tl	ne.	fine.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.30	744.2	65	18.3		w.			4		3		w.	sh'rs	sh'rs			clear.
S. S. State of Georgia, N. 51° 34′ W. 34° 38′†	29.89	759.2	52	11.1		wnw.			6		7		w.	sh'rs	sh'rs	mod.	w.	showery.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 43° 39′, W. 52° 34′†	30.02	762.5	68.9	20.5	60	ese.			6		5		ese.	17 h'r	17 h'r	hv'y	sse.	clear.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 48° 59′, W. 7° 20′	29.84	757.9	62	16.7					4		3					5	nw.	squally.
WHITE STAR LINE.																		
S. S. Adriatic, New York, N. Y*†	30.09	764.3	76	24.4	95	nw.			2		2			0	0			clear.
S. S. Britannic, N. 47° 01′, W. 37° 56′†	30.21	767.3	70	21.1	95	n.			4		10		nw.			mod.	w.	raining.
S. S. Celtic, Liverpool, Eng†	29.47	748.5	58	14.4	88	wsw.			5		10		wsw.	hv'y	hv'y			showery.
S. S. Germanic, N. 44° 10′, W. 56° 01′†	29.29	744.0	62	16.7		s.			7		10		wsw.	24 h'r	24 h'r	h'vy	ssw.	raining.
S. S. Republic, N. 51° 21′, W. 13° 43′†	29.93	760.2	56	13.3	69	w.			6		9		w.	sh'rs	sh'rs	high	nw.	d. clouds.
WILSON LINE.																		
S. S. Otranto, N. 47° 47′, W. 51° 23′†	30.02	762.5	56	13.3		ene.			5		10		se.			cross	s.	hazy.
S.S. Romano, N. 39° 44′ W. 55° 45′	29.70	754.4	76	24.4		sw.			4		4		sw.	0	0	h'vy	sw.	overcast.
S. S. Salerno, N. 49° 18′, W. 13° 50′*	29.65	753.1	60	15.6		w.			8		6		w.	0	0	h'vy	nw.	
WINSOR LINE.																		
S. S. Aries, N. 40° 22′, W. 73° 33′†*	29.94	760.5				wsw.			5		9		sw.	sh'rs	sh'rs	long	s.	hazy.
S. S. Catherine Whiting, Barnegat, N. J†	30.00	762.0	74	23.3		w.			1		8		w.	0	0	light	se.	
MISCELLANEOUS.																		
Bk. Adelaide, N. 18° 10′, W. 51° 06*†	30.08	764.0	85	29.4		e.			5		0			0	0	mod.	e.	hazy.
Schr. Ajax, Delaware Breakwater†	30.09	764.3				calm			0		8		w.	0	0	sm'h	s.	hazy.
Schr. Anna A. Holton, N. 25° 48′ W. 77 22′†	30.01	762.2	83	28.3		n.			3		2		nne.	0	0	mod.	ne.	clear.
Bk. Anna Thormann, S. 10° 36′, E. 105° 25′	29.95	760.6	78.8	26.0	79	e.			5		10 k:n		e.	0	0	short	e.	cloudy.
S. S. Antonio Lopez, Santander, Spain*	30.05	763.3	67	19.4	64	wnw.			3		6			12 h'r	12 h'r	long	nw.	squally.
Schr. Asa Eldridge, Punta Rassa, Fla†	30.15	765.8				ne.			3		2		e.	0	0			fair.
Bk. Aureola, N. 19° 55′ W 54° 43′*†	30.11	764.8	91?	32.8?		e.			3		2		e.	0	0	mod.	e.	clear.
Bk. B. F. Watson, N. 6° 45′ W. 26° 43′†	29.95	760.7	80	26.7		se.			4		2		s.	0	0	mod.	s.	fair
Bk Bergenseren, N. 41° 03′ W. 18 40′†	30.23	767.9				nnw.			2		10		nnw.	0	0	3	n.	overcast.
Bk Bremen, N. 47° 08′ W. 43° 33′*†	30.14	765.5				e.			2		10		wnw.	8 h'r	8 h'r	mod.	ssw.	cloudy.
S. S. Burswell, N 42° 04′, W. 29° 58′*†	30.34	770.6	75	23.9		sw.			1		2		calm	0	0	sli't	nne.	clear.
Bk. Cato, Hudiksvall, Sweden*†	29.55	750.6				ssw.			5									cloudy.
Bk. Celestina, N. 28° 34′, W. 36° 37′*†	30.13	765.3				ne.			3		0			0	0	mod.	e.	clear.
S. Dora, S. 30° 40′ W. 37° 00′†	30.37	771.4	69.8	21.0		ne.			4		8 ks		wnw.	0	0	mod.	e.	cloudy.
Schr. Edith R. Seward, Baltimore, Md*†	29.99	761.7	72	22.2		n.			2		2		nnw.	0	0			clear.
S. E. J. Spicer, N. 45° 30′, W. 26° 25′*	30.19	766.8	69	20.6		wnw.			5		7		nw.	0	0	mod.	nw.	fair.
Bk. E. L. Pettingill, N. 31° 32′, W. 158° 14′†	30.40	772.1				ene.			5		1		e.	0	0	sm'h	e.	
S. Enoch Train, Bremerhaven, Ger†	29.80	756.9				wsw.			6		4		wsw.	rain	rain			squally.
Bk. Essex, Aden, Arabia*†	29.90	759.4	94	34.4		e.			4				nnw.	0	0			fine
Bk. Franklin, N. 55° 35′, E. 12° 42′*†	29.63	752.6				ssw.			6		8			0	0	sm'h		clearing.
Bk. Freya, N. 45° 00′, W. 34° 47′			76	24.4		sw.			4		2		sw.	0	0	sm'h		clear.
S. Glendon, N. 29° 40′ W. 46° 50′†	30.11	764.8	86	30.0		se.			2		4		se.	0	0	sm'h		fair.
Bk. Godfrey, N. 16° 12′, W. 26° 40′	29.94	760.5	79.3	26.3	87	ssw.			2–3		6		sw.	sh'rs	sh'rs	r'gh		showery.
S. Grecian, N. 7° 10′, E. 109° 35′*†	29.88	758.9	80	26.7		ne.			2		10		ne.	1 h'r	1 h'r	mod.	sw.	misty.
Bk. Gronsvaer, N. 7° 35′ W. 23° 46′†	29.96	761.0				sw.			3		3		sw.	0	0	sm'h	sw.	fair.
Bk. Hattie G. McFarland, Bath, Maine*†	29.90	759.4	66	18.9		calm			0		1		sw.	0	0			clear.
Schr. Hattie Weston, N. 38° 30′ W. 74° 57′*†	30.10	764.5	74	23.3		s.			1		10		sw.	0	0	sm'h	se.	cloudy.
Schr. Henry Denison, N. 20° 55′, W. 73° 46′†	29.96	761.0				ne.			4		4		se.				nw.	fair.
Bk. Horace Scudder, N. 16° 30′, W. 62° —′†	30.06	763.5	80	26.7		e.			3		2		se.	0	0	light	ne.	blue sky.
S. Ivy, S. 55° 04′, W. 65° 12′†	30.16	766.1	39	3.9		nw.			2		10		nw.	0	0		wsw.	cloudy.
S. Ismir, N. 16° 10′ E. 115° 19′†	29.95	760.7				ene.			1		3		ene.	0	0	sm'h		fine.
Schr. Jennie N. Huddell, Point Judith, R. I.†	29.87	758.7	68	20.0	100	sw.			3		5		w.	rain	rain	short	sw.	raining.
Schr. John L. Thomas, N. 23° 00′, W. 72° 33′*†	30.07	763.8				se.			4		4		s.	13 h'r	13 h'r	light	nne.	fair.
Bg. John Wesley, Guantanamo, W. I†	29.83	757.7				nnw.			1		1			0	0			clear.
Bk. Joseph A. Ropes, S. 29° 14′, E. 48° 03′*†	30.38	771.6	66	18.9	84	e.			5		7		e.	0	0	long	e.	cloudy.
Bkt. Josephine, Havana, Cuba, W I†	29.99	761.7	82	27.8	75	calm			0		2			½ h'r	½ h'r			hazy
S. S. Laurel, Key West, Fla.†	30.04	763.0	82	27.8		ene.			1		10		ese.	1 h'r	1 h'r			cloudy.
S. S. Madrid, N. 49° 28′, W. 36° 44′*†	30.16	766.1	60	15.6		w.			5		6		w.	5 h'r	5 h'r	g'tl	wsw.	clearing.
Schr. Maggie Abbott, N. 19° 26′, W. 72° 43′†	29.96	761.0																
S. S. Malabar, N. 38° 31′, W. 162° 00′†	30.46	773.7				se.			2		0			0	0	sm'h		clear.
S. Minnie N. Gerow, N 37° 16′, W. 0° 38′*†	29.82	757.4				wsw.			5		0					sm'h	sw	fine.
S. M. P. Grace, S. 4° 39′, W. 113° 20′*	30.02	762.5	76	24.4		ese.			2				se.	rain	rain	sm'h	se.	squally.
Bk. National Eagle, N. 51° 16′ E. 1° 50′†	29.66	753.4				wsw.			7		4		w.	0	0	mod.	wsw.	cloudy.
S. S. Nebo, N. 36° 47′, W. 45° 48′ *†	30.01	762.2				s.			3		2		ssw.	⅜ h'r	⅜ h'r	cross	ese.	cloudy.
Schr. Ocean Traveller, N. 26° 13′, W. 65° 38′†	30.03	762.7				ene.			2		1		e.			mod.	ne.	clear.
S. Oracle, N. 31° 22′, W. 48° 09′*	30.11	764.8	84	28.9	83	s.			3		7					r'gh	sse.	squally.
S. Orealla, N. 7° 26′, W. 23° 00′*	29.91	759.7				ssw.			3		3		ssw.	0	0	mod.	s.	clear.
S. St. Francis, N. 23° 16′ W. 37° 30′†	30.01	762.2	79	26.1		e.			6		5		e.	0	0	long	ene.	squally.
Schr. S. B. Hubbard, Gardiner, Me†	29.91	759.7	62	16.7		calm			0		10			0	0			foggy.
Bk. Sunbeam, N. 37° 21′ W. 17° 08′†	30.29	769.4	70	21.1	79	ne.			5		8		ne.	0	0	r'gh	ne.	cloudy.
S. S. Sunbeam, Rotterdam, Holland	29.64	752.8	61	16.1	70	sw.			6		7		sw.					showery.
S. Sovereign Of The Sea, S. 57° 46′ W. 69° 30′*†	29.68	753.9	40	4.4	100	nw.			5		10		nw.	6 h'r	6 h'r	r'gh	wsw.	light rain.
U.S. F. C. S. S. Fish Hawk, Wood's Holl, Mass†	30.10	764.5	67	19.4	100	ssw.			3		10		sw.	0.07	1.8			raining.
Schr. Victor Ping, N. 14° 58′, W. 70° 00′*†	30.00	762.0				ese.			4		2		se.			mod.	se.	fair.
Schr. Viola Reppard, Savannah, Ga†	30.05	763.3	80	26.7		sw.			1		1?		sw.	0	0			cloudy
Bk. Wandering Jew, Off Boston, Mass*†	30.03	762.7	67	19.4		ssw.			4		9							raining.
Bg. Wauburn, N. 30° 34′, W. 76° 50′*†	30.10	764.5				calm			0		0					mod.	ene.	clear.
Bk. Warden Law, N. 41° 44′, W. 18° 01′*	30.25	768.3				nw.			2		4		nw.	0	0	sm'h	nw.	fair.
S. Wm. Woodbury, N. 60° 18′, W. 7° 45′*	29.38	746.2	57	13.9	93	nw.			4		4		nw.			long	nw.	cloudy.

International Chart I. August 24, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 25, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			29.93	760.2	82.6	28.1	69	s.			1		0			0	0	clear	Bouvier.
Algiers			29.89	759.3	82.4	28.0	63	n.			2		0			0	0	clear	Thève.
La Calle			29.92	759.9	83.1	28.4	68	ne.			1		2			0	0	fair	Fonfrède.
Tunis			29.90	759.5															Jacques.
Saida			30.00	761.9															Perès.
Tebessa			30.00	762.0	90.7	32.6	23	w.			1		0			0	0	clear	Rigaud.
Geriville					92.5	33.6	11	nnw.			2		3			inap.	inap.	pretty fair	Louchamp.
Laghouat			30.03	762.8	99.7	37.6	24	s.			1		0			0	0	clear	Abraham.
Biskra			30.02	762.6	99.7	37.6	22	calm			0		2			0	0	very fair	Malau.
Australian.																			
Melbourne, Victoria	30.04	763.0	30.13	765.3	57.8	14.3	92	n.	5	2.2			10			0.09	2.3	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.40	746.7	29.93	760.2	68.0	20.0	64	ne.			1		8			0.059	1.5		Prof. Ivan Stozir.
Cracow, I. R. Observatory	29.16	740.6	29.92	759.9	57.0	13.9	87	wsw.	4.3	1.9			10			1.988	50.5		Dr. Wierzbiski.
Eperies	29.05	737.8	29.90	759.5	66.2	19.0	80	n.			3	0	6 ks		e.	0	0		Julius Mikolik.
Gratz	28.72	729.6	29.95	760.8	62.1	16.7	82	w.			2		8			0.724	18.4		Andreas Rosphit.
Hermannstadt	28.52	724.5	29.85	758.2	85.1	29.5	51	sse.			3		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.61	726.8	29.93	760.2	61.5	16.4	75	se.			1		7			0.024	0.6		The Staff.
Lemberg	28.86	733.1	29.79	756.7	78.8	26.0	54	s.			5		0			0.102	2.6		Dr. T. Stanecki.
Pola	29.80	757.0	29.91	759.7	79.7	26.5	72	se.			2		8			0	0		I. R. Hydrographic Office.
Szathmar	29.41	747.0	29.85	758.3	82.9	28.3	51	sw.			1		0			0	0		Joseph Midlinszay, S. J.
Szegedin	29.62	752.3	29.88	759.0	79.9	26.6	63	s.			3		0			0	0		Karl Stancel.
Trieste	29.80	757.0	29.91	759.6	82.4	28.0	58	sw			1		0			0.248	6.3		Royal Academy.
Vienna	29.28	743.8	29.99	761.7	63.1	17.3	68	nw.			2		2			1.146	29.1		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.30	744.2	29.40	746.7	56.6	13.3	77	se.	11	4.9			6			0.065	1.6	showery	W. Boswell
Armagh, Observatory	29.19	741.4	29.42	747.3	56.1	13.4	84	n.	3	1.3			10					overcast	S. Oall.
Bidston, Liverpool Obs'y			29.38	746.2	57.3	14.1	74	ese.	15	6.7			10					overcast	John Hartnup.
Bolton, Sharples	28.87	733.3	29.39	746.5	58.8	14.9	67	se.	6	2.7			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.02	737.1	29.41	747.0	59.2	15.1	66	se.			2		10			0.02	0.5	overcast	McLandsborough & Preston
Bridgetown, Barbadoes	29.93	760.2	29.96	761.0	84.0	28.9	67	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			29.38	746.2	62.0	16.7	88				1.0		9					thnd'er st'rm	John McLaren.
Chatham, School M. E.	29.36	745.7	29.48	748.8	56.7	13.7	93	se.			4		10					drizzling	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.15	740.4	29.37	746.0	60.8	16.0	73	sw.			6		8					squally	The Staff.
Fort Napier, Natal	27.86	707.6	30.08	764.0	75.0	23.9	36	nw.			1		1					blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.68	753.9	29.90	759.4	78.0	25.6	82	s.			5		8					drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	29.96	761.0	30.01	762.2	74.9	23.8	85	nw.			3		0					blue sky	Corpl. F. Norris, A. H.C
Glasgow, Observatory	29.20	741.7	29.40	746.7	58.7	14.8	78	wnw.			2		7					gloomy	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.25	742.9	29.42	747.3	56.4	13.6	90	sse.			4		10					raining	The Staff.
Guernsey	29.18	741.2	29.47	748.5	63.5	17.5	75	wsw.			5		0			blank	blank	blue sky	A. Collenette, F. M. S.
Kew, Observatory	29.39	746.5	29.42	747.3	57.5	14.2	90	sse.	17	7.6			10					drizzling	The Staff.
Leicester, Museum	29.16	740.7	29.41	747.0	56.2	13.4	86	s.			1		10					drizzling	J. C. Smith.
Malta, Mediterranean	29.91	759.7	29.99	761.7	80.2	26.8	90	e.			1		7					d. clouds	W. D. Ballau.
Nassau, Bahamas	29.98	761.5	30.02	762.5	85.0	29.4	71	ne.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	28.90	734.0	29.41	747.0	54.0	12.2	93	e.			2		10					raining	Warren Middleton.
Oxford, Radcliffe Obs'y	29.14	740.1	29.37	746.0	54.9	12.7	93	se.			3		10					raining	The Staff.
Plymouth	29.30	744.2	29.38	746.2	62.8	17.1	80	sw.			4		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.37	746.0	55.1	12.8	83						1					blue sky	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.80	758.4	29.92	760.0	88.6	31.4	49	ne.			2		0					misty	W. H. Lyne.
Sheffield	29.14	740.1	29.41	747.0	62.0	16.7	68	se.			1		10			0.03	0.8	overcast	W. F. Cooper.
Silloth Rectory	29.37	746.0	29.40	746.7	57.4	14.1	87	s.			1		10			0.273	6.9	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.43	747.5	58.0	14.4	69	se.	5	2.2			10					overcast	I. New.
Stratfield Turgiss					58.3	14.6	93	se.			4		10					showery	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.29	744.0	29.30	744.2	62	16.7	71	sw.			6		10					gloomy	W. Newcombe.
Valencia, Observatory	29.45	748.0	29.47	748.5	55.6	13.1	77	nnw.	21	9.4			10					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.65	753.1	29.69	754.1	58	14.4	97	nw.	12	5.4			10 n		n.	0.050	1.3	threatening	H. J. Cundall, C. E.
Chatham, N. B*	29.77	756.1	29.83	757.7	57	13.9	86	n.	7	3.1		2 cs	8 ks	n.	n.	0	0	cloudy	G. A. Blair.
Father Point, Quebec*	29.87	758.7	29.89	759.2	51	10.6	100	calm	0	0			10 s		e.	0.32	8.1	threatening	J. McWilliams.
Fort Garry, Manitoba*	29.02	737.1	29.82	757.4	59	15.0	93	n.	4	1.8		5 cs	5 k	n.	n.	0.090	2.3	cloudy	James Stewart.
Halifax, N. S*	29.02	752.3	29.74	755.4	60	15.6	78	w.	6	2.7		5 ck	0	w.		0	0	fair	A. Allison.
Kingston, Ontario*	29.57	751.1	29.90	759.4	64	17.8	100	sw.	2	0.9		2 c	8 k		nw.	0.30	7.6	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.71	754.6	29.91	759.7	63	17.2	65	nw.	6	2.7		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.26	743.2	29.93	760.2	63	17.2	93	sw.	5	2.2		5 cs	0	w.		0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.28	743.7	29.95	760.7	61	16.1	94	calm	0	0		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.33	745.0	29.96	761.0	57	13.9	90	nw.	1	0.4		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.57	751.1	29.88	758.9	58	14.4	96	e.			1	2 k	5 s	ne.	e.	0.50	12.7	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.44	747.8	29.88	758.9	62	16.7	93	calm	0	0			10 s		nw.	0	0	cloudy	W. H. McIntyre.
Saugeen, Ontario*	29.24	742.7	29.93	760.2	64	17.8	93	se.	6	2.7		0	0			0	0	clear	
St. Andrews, N. B	29.73	755.1	29.78	756.4	60	15.6	71	n.	1	0.4		5 k	5 k	n.		0	0	cloudy	
Sydney, C. B*	29.53	750.0	29.59	751.6	59	15.0	93	w.	6	2.7			10 n			1.86	47.2	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.58	751.3	29.95	760.7	62	16.7	93	calm	0	0		5 cs	0	w.		0	0	fair	Magnetic Observatory.
Yarmouth, N. S*	29.67	753.6	29.74	755.4	62	16.7	93	e.	1	0.4			fg			0	0	foggy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.60	726.4	29.98	761.5	55.0	12.8	100	calm			0		10			0.031	0.8	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.80	756.9	30.05	763.3	58	14.4	100	se.	4	1.8			10 n			0.37	9.4	rainy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.11	764.8	30.13	765.3	71	21.7	65	calm	11.8	5.3		0	0			0	0	clear	C. Hansen.
Cape Town, C. G. H. Obs'y	30.07	763.8	30.10	764.5	69.0	20.6	75	sse.	12	5.4		4	6			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent	From.	Miles p. hr.	Mtrs. p sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
CHINESE (*Sub-series*).																			
Hankow	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.85	758.2	29.88	758.9	77.2	25.1	91	ese.	2.9	1.3	.....	7 c	0	.....	.....	0	0	foggy	M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.60	751.7	29.64	752.9	58.8	14.9	69	sw.	20	9	.....	.....	10	.....	.....	.....	.....	.....	Oversergent Fischer.
Fanöe	29.54	750.4	29.56	750.9	61.3	16.3	83	wsw.	.....	.....	4	.....	5	.....	.....	.....	.....	.....	Overloerer Lauridsen
Godthaab, Greenland	30.04	762.9	30.08	764.0	40.6	4.8	94	ene.	.....	.....	2	.....	8	.....	.....	0	0	.....	S. Kleinschmidt.
Ivigtut	30.06	763.6	30.08	764.1	40.5	4.7	.....	w.	.....	.....	2	.....	10	.....	.....	.....	.....	foggy	
Stykkisholm, Iceland	29.76	755.9	29.80	757.0	43.7	6.5	77	ne.	.....	.....	7	.....	8	.....	.....	.....	.....	.....	A. O. Thorlacius.
Thorshavn	29.24	742.7	29.28	743.6	55.6	13.1	86	n.	7	3	.....	.....	8	.....	.....	.....	.....	.....	Overloerer Bergh.
Vestervig	29.41	747.1	29.50	749.4	62.6	17.0	78	wsw.	.....	.....	6	.....	8	.....	.....	.....	.....	.....	Loerrer Oesterbol.
FRENCH.																			
Agen, Normal School	29.28	743.6	29.91	759.6	64.8	18.2	62	s.	.....	.....	1	c	2 k	.....	.....	0	0	.....	M. Labroue, Director.
Alençon, Normal School	29.11	739.5	29.71	754.5	59.4	15.2	98	sw.	.....	.....	4	.....	10	s.	s.	0.04	1.	heavy rain	M. Nicot, Director.
Arras, Engineer School	29.41	747.0	29.66	753.4	55.2	12.9	100	s.	.....	.....	4	.....	10	.....	.....	0.150	3.8	covered	M. Fénéon, Command't.
Avignon, Normal School	29.88	759.0	29.96	761.0	73.8	23.2	58	s.	.....	.....	1	.....	0	.....	.....	0.654	16.6	clear	M. Girnud, Director.
Bar-sur-Seine	29.31	744.5	29.85	758.2	64.2	17.9	53	s.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.43	747.5	29.65	753.2	59.9	15.5	85	sse.	.....	.....	3	.....	10	.....	sw.	0.012	0.3	raining	M. Frère Eugène Maris.
Besançon, Normal School	28.96	735.5	29.83	757.7	68.4	20.2	69	s.	.....	.....	1	.....	2	.....	nw.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.65	753.0	29.90	759.5	68.4	20.2	53	wsw.	.....	.....	2	.....	8	.....	.....	0.016	0.4	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.33	744.9	29.87	758.7	63.5	17.5	61	sw.	.....	.....	4	.....	.....	.....	sw.	0.16	4.	.....	M. Malet, Director.
Brest, Naval Observatory	29.35	745.4	29.59	751.6	66.2	19	72	wsw.	.....	.....	3	.....	6	.....	wsw.	0.283	7.2	hailing	M. de Kermaree, Dir.
Caen, Normal School	29.68	753.8	29.75	755.7	52.2	11.2	80	sw.	.....	.....	3	.....	8	.....	sw.	0.35	9.	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.52	749.7	29.83	757.6	62.6	17.0	70	wsw.	.....	.....	8	.....	10	.....	w.	0.055	1.4	covered	M. Jadot, Director.
Charleville, Normal School	29.22	742.1	29.72	754.8	61.2	16.2	64	sw.	.....	.....	3	.....	2	.....	.....	0	0	½ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.57	725.7	29.87	758.8	71.6	22.0	46	sw.	.....	.....	1	.....	5	.....	sw.	0.004	0.1	½ covered	M. Allnard, Director.
Cluny, Normal School	29.11	739.5	29.95	760.7	69.8	21	34	ssw.	.....	.....	1	.....	4	.....	ssw.	0.016	0.4	.....	M. de Villemontée, Dir.
Commercy, Normal School	28.14	714.8	29.84	758.0	62.2	16.8	66	sw.	.....	.....	4	.....	kn	sw.	sw.	0	0	.....	Dr. Coulet, Director.
Gap, Normal School	27.38	695.4	29.85	758.1	64.8	18.2	47	n.	.....	.....	4	0	4 k	.....	n.	0	0	.....	M. Jeanginard, Director.
Gréasque, du Rhone	29.07	738.4	30.18	766.5	68.0	20.0	41	w.	.....	.....	2	.....	2	.....	w.	0.181	4.6	.....	M. Kina, Director.
Grenoble, Normal School	29.11	739.3	29.86	758.4	66.2	19	53	wsw.	.....	.....	1	ck	0	ssw.	.....	0.205	5.2	.....	M. Ablard, Director.
Lamballe, Normal School	.....	.....	.....	.....	63.5	17.5	76	sw.	.....	.....	1	.....	5	.....	sw.	0.51	13.	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.38	746.3	29.93	760.1	72.5	22.5	43	sw.	.....	.....	1	.....	10	.....	.....	0	0	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.52	749.8	29.62	752.4	64.4	18.0	72	w.	.....	.....	3	.....	8	.....	w.	0.492	12.5	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.91	734.2	29.93	760.2	69.1	20.6	40	sse.	.....	.....	1	0	2 n	.....	sw.	0	0	slightly cl'dy	M. André, Director.
Mans, Normal School	29.39	746.6	29.70	754.3	59.4	15.2	98	sw.	.....	.....	4	.....	10	.....	sw.	0.138	3.5	covered	M. Piboen, Director.
Marseille, Observatory	29.72	754.8	29.98	761.6	69.8	21.0	50	w.	.....	.....	2	.....	2	.....	wnw.	0	0	.....	M. Stephan, Director.
Montlouis	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	M. Cave, for Dr. Fines.
Montpellier, Normal School	29.94	760.4	30.06	763.5	73.0	22.8	48	w.	.....	.....	2	.....	0	.....	.....	0	0	clear	M. Galzin, Director.
Nancy, Normal School	28.97	735.7	29.72	754.9	67.3	19.6	60	s.	.....	.....	2	2 c	0	.....	.....	0	0	slightly cld'y	M. Hasse, Director
Nantes, Observatory	29.54	750.3	29.71	754.5	61.7	16.5	96	w.	.....	.....	2-4	.....	10	.....	.....	0.177	4.5	rainy	M. Larocque, Director.
Perpignan, Observatory	29.90	759.5	30.01	762.2	73.2	22.9	48	s.	3.8	1.7	.....	.....	9	wsw.	wsw.	0	0	.....	Dr. Fines, Director.
Pic-du-Midi, Summit	21.30	541.0	.....	.....	44.6	7.0	.....	n.	.....	.....	1	.....	5	.....	n.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.96	735.6	30.01	762.2	64.4	18	44	s.	.....	.....	1	.....	2	.....	.....	0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.09	637.3	.....	.....	43.5	6.4	90	wsw.	.....	.....	4	.....	8	.....	.....	0.122	3.1	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	29.81	757.2	29.84	758.0	67.3	19.6	92	sw.	.....	.....	8	.....	10	.....	ssw.	3.23	82.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.56	750.9	29.77	756.2	63.1	17.3	86	sw.	.....	.....	4	.....	10	.....	ne.	0.035	0.9	raining	M. Mouillot, Director.
Rodez, Normal School	27.88	708.1	29.97	761.2	60.8	16.0	71	w.	.....	.....	1	.....	5	.....	sw.	0	0	cloudy	M. Seger, Director.
Rouen, Normal School	29.60	751.9	29.65	753.0	58.6	14.8	91	s.	.....	.....	2	.....	10	w.	.....	0.154	3.9	raining	M. Brotier.
Saint Maur, Observatory	29.56	750.8	29.72	755.0	61.0	16.1	76	ssw.	.....	.....	3	.....	10	.....	sw.	0	0	.....	M. Renou, Director.
Toulouse, Observatory	29.31	744.4	30.03	762.8	76.3	24.6	43	ssw.	.....	.....	1	.....	2	w.	.....	0	0	slightly cl'dy	M. Baillaud, Director.
Tours	29.57	751.0	29.74	755.5	64.0	17.8	78	sw.	.....	.....	4	.....	10	.....	sw.	.....	.....	rainy	M. de Tastes.
Versailles, Observatory	29.21	742.0	29.71	754.5	61.2	16.2	77	s.	.....	.....	4	.....	.....	.....	.....	0.339	8.6	.....	Dr. A. Bergny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.44	747.7	29.69	754.1	59.7	15.4	87	ssw.	.....	.....	3	.....	10	.....	.....	0.016	0.4	raining	M. Marié Davy, Director
GERMAN.																			
Ansbach	28.49	723.6	29.90	759.5	62.2	16.8	52	sw.	.....	.....	2	.....	4	sw.	.....	0	0	.....	Prof. Jnedt.
Bamberg	29.06	738.1	29.91	759.7	66.0	18.9	52	sw.	.....	.....	3	0	4 k	.....	sw.	0	0	.....	Prof. Dr. Roh.
Berlin	29.61	752.2	29.79	756.6	67.3	19.6	42	sw.	.....	.....	2	.....	8	.....	.....	0	0	.....	Prof. Dr. Arndt.
Breslau	29.43	747.6	29.97	761.1	66.2	19.0	47	sw.	.....	.....	2	.....	2	.....	.....	0	0	.....	Royal University Obs'y.
Carlsruhe	29.65	753.0	30.08	764.0	66.2	19.0	55	sw.	.....	.....	2	.....	8	sw.	.....	0.161	4.1	.....	Albert Senz.
Cassel	29.08	738.5	29.79	756.6	62.6	17.0	57	sw.	.....	.....	4	.....	8	ssw.	.....	0	0	.....	Dr. H. Möhl.
Frankfort-on-the-Main	29.51	749.6	29.87	758.6	66.6	19.2	53	sw.	.....	.....	2	.....	7	.....	.....	0	0	.....	Physical Society.
Friedrichshafen	28.51	724.2	29.91	759.8	64.0	17.8	62	sw.	.....	.....	3	.....	8	w.	.....	0.177	4.5	.....	Wilhelm, Chief Tel.
Hamburg	29.62	752.4	29.71	754.7	61.9	16.6	68	sw.	.....	.....	4	.....	7	.....	.....	0	0	squally	E. Preller.
Kiel	29.65	753.1	29.67	753.5	58.8	14.9	80	wsw.	.....	.....	5	.....	8	.....	.....	0.157	4.0	.....	Prof. Dr. G. Karsten
Leipsic, Astron'l Obs'y	29.44	747.7	29.85	758.1	65.7	18.7	52	sw.	.....	.....	3	.....	5	sw.	.....	0	0	.....	B. Leppig, Asst.
Magdeburg	29.60	751.7	29.78	756.3	70.0	21.1	45	sw.	.....	.....	4	0	6 ks	.....	wsw.	0	0	.....	Dr. Assmann.
Memel	29.81	757.1	29.85	758.3	66.7	19.3	64	sw.	.....	.....	4	.....	10 ks	.....	.....	.....	.....	.....	Issermann.
Munich	28.14	714.8	30.00	762.0	64.0	17.8	43	calm	.....	.....	0	.....	5	e.	.....	0.110	2.8	.....	Dr. C. Lang.
Neufahrwasser	29.82	757.4	29.84	757.8	68.0	20.0	49	sw.	.....	.....	2	.....	5	.....	.....	0.012	0.3	.....	A. Lothes.
Neustadt, Palatinate	29.29	744.0	29.82	757.3	66.7	19.3	49	w.	.....	.....	2	.....	5	sw.	.....	0	0	.....	Dicknether.
Stuttgart	28.93	734.8	29.79	756.7	67.6	19.8	41	w.	.....	.....	3	.....	4	w.	.....	0	0	.....	Prof. Dr. Sauder.
Wustrow	29.71	754.6	29.74	755.3	63.3	17.4	62	sw.	.....	.....	5	0	8 k	.....	.....	0	0	.....	Profs. Brandes & Reimer
GREEK.																			
Athens	29.58	751.2	29.94	760.4	88.9	31.6	.....	sw.	.....	.....	1.0	.....	0	.....	.....	0	0	.....	Schmidt & Wourlisch
INDIAN.																			
Kurrachee	29.67	753.6	29.75	755.6	83.3	28.5	74	wsw.	32.0	14.3	.....	.....	6	.....	w.	0	0	d. clouds	
Deesa	29.20	741.0	29.66	753.4	84.5	29.2	63	wsw.	4.0	1.8	.....	.....	5	w.	.....	0	0	d. clouds	
Bombay	29.74	755.5	29.78	756.5	83.5	28.6	73	wnw.	11.0	4.9	.....	.....	3	nw.	.....	0	0	d. clouds	
Poona, Yarrowda	27.91	708.9	29.76	755.9	78.0	25.7	63	wsw.	24.0	10.7	.....	.....	6	w.	w.	0	0	d. clouds	
Trichinopoly	29.45	748.0	29.73	755.0	89.3	31.8	61	ene.	.....	.....	.....	.....	10	.....	.....	1.58	40.1	overcast	
Bellary	28.27	718.0	29.73	755.1	81.2	27.3	69	w.	3.5	1.6	.....	.....	10	.....	.....	0	0	gloomy	
Belgaum	27.25	692.1	29.78	756.5	74.8	23.8	70	wnw.	9.0	4.0	.....	.....	9	e.	w.	0	0	d. clouds	
Lahore	28.92	734.0	29.65	753.1	86.0	30.0	76	calm	0	0	.....	.....	10	.....	.....	0.19	4.8	overcast	
Roorkee	28.75	730.3	29.63	752.5	90.8	32.7	62	e.	1.5	0.7	.....	.....	5	.....	.....	0.01	0.3	.....	
Agra	29.06	738.1	29.62	752.4	81.3	27.4	83	e.	12.0	5.4	.....	.....	8	.....	e.	0.07	1.8	showery	
Nagpur	28.62	726.8	29.64	752.9	85.2	29.6	65	ne.	6.0	2.7	.....	.....	9	.....	nw.	0	0	d. clouds	
Jubbulpore	28.31	719.0	29.65	753.1	81.2	27.3	70	nw.	2.2	1.0	.....	.....	10	.....	w.	0	0	overcast	
Lucknow	29.29	743.9	29.66	753.5	78.2	25.7	89	calm	0.6	0.3	.....	.....	10	wnw.	.....	0.79	20.1	overcast	
Allahabad	29.35	745.0	29.66	753.4	80.4	26.9	91	ne.	6.0	2.7	.....	.....	10	.....	e.	0.13	3.3	thund'r st'm	
Patna	29.49	749.0	29.67	753.6	87.2	30.7	70	e.	3.2	1.4	.....	.....	6	e.	e.	0	0	d. clouds	
Hazaribagh	27.65	702.4	29.66	753.4	75.8	24.3	90	ese.	5.7	2.6	.....	.....	10	.....	e.	2.01	51.0	drizzling	
Cuttack	29.59	751.5	29.67	753.6	78.5	25.8	90	sw.	.....	.....	.....	.....	8	.....	.....	2.77	70.4	d. clouds	
Calcutta, Alipore	29.66	753.3	29.68	753.9	79.9	26.6	87	s.	4.0	1.8	.....	.....	9	.....	s.	0.11	2.8	d. clouds	
Dhubri	29.59	751.7	29.71	754.7	80.1	26.7	93	calm	2.0	0.9	.....	.....	10	.....	.....	0.04	1.0	overcast	
Chittagong	29.66	753.4	29.75	755.7	80.7	27.1	88	sse.	5.6	2.5	.....	.....	5	.....	.....	0	0	blue sky	
Sibsagar	29.34	745.3	29.67	753.6	87.5	30.8	71	ne.	4.6	1.8	.....	.....	6	w.	w.	0.02	0.5	d. clouds	
Jeypore	28.21	716.0	29.63	752.6	86.0	30.3	71	sw.	2.5	1.1	.....	.....	4	.....	sw.	0.53	13.5	d. cloudy	
Zanzibar, Africa	30.00	762.0	.....	.....	83.2	28.4	48	sse.	6.3	2.8	.....	.....	2	.....	.....	0	0	d. clouds	
ITALIAN.																			
Udine	29.48	748.9	29.88	759.0	77.9	25.5	67	se.	8.7	3.9	.....	.....	9	.....	.....	0.909	23.1	.....	Prof. Giovanni Clodig.
Milan	29.36	745.7	29.85	758.3	77.9	25.5	59	ese.	5.6	2.5	.....	.....	9	wsw.	.....	0.937	23.8	.....	Prof. Schiaparelli.
Padua	29.75	755.7	29.86	758.4	80.6	27.0	51	wsw.	4.9	2.2	.....	.....	8	w.	.....	0.094	2.4	.....	Prof. Dott. Lorenzoni.
Moncalieri	28.97	735.9	29.85	758.1	73.0	22.8	60	nw.	3.1	1.4	.....	.....	7	w.	.....	0	0	.....	Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Genoa	29.71	754.6	29.89	759.3	73.9	23.3	61	s.	11.2	5.0			8	sw.		0.079	2.0		Prof. G. M. Garibaldi
Mondovi	27.99	710.9	29.82	757.5	70.0	21.1	61	ne.			2		3	wsw.		0	0		Prof. D. C. Bruno.
Pesaro	29.83	757.7	29.88	758.9	79.2	26.2	67	se.	8.1	3.6			10	w.		0	0		Prof. Luigi Guidi.
Florence	29.67	753.7	29.92	759.9	77.4	25.2	59	wsw.			2		10	s.		0.551	14.0		Prof. Costantino Pitter.
Leghorn	29.79	756.7	29.87	758.8	76.6	24.8	53	w.	4.9	2.2			5			0.028	0.7		Prof. P. Monte.
Rome	29.80	756.9	29.97	761.2	82.4	28.0	52	ssw.	16.8	7.5			10	s.		0	0		Prof. P. Tachini.
Lecce	29.74	755.5	29.98	761.6	83.1	28.4	50	wsw.	13.0	5.8			0			0	0		Prof. C. de Giorgi.
Cosenza	29.09	738.8	29.94	760.4	86.4	30.2	73	s.	3.1	1.4			0			0	0		Prof. D. Conti.
Cagliari	29.73	755.2	29.92	760.0	86.0	30.0	40	w.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.76	755.9	30.00	762.0	82.0	27.8	56	ne.	7.4	3.3			0			0	0		Prof. G. Ciacciatore.
Syracuse	29.91	759.8	29.96	760.9	82.4	28.0	63	s.	18.6	8.3			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.49	749.1	30.00	761.9	82.0	27.8	63	w.	1.3	0.6			1			0	0		Prof. T. Brioschi.
Stelvio	22.15	562.5			44.8	7.1	66	w.			2		10			0.488	12.4	misty	Prof. P. F. Denza.
Valdobbia	22.20	564.0			48.2	9.0	73	e.			1		4			0.063	1.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.76	755.9	29.79	756.6	67.9	19.9	90	ssw.	5.3	2.4		1 cs	7 s;ck			0.311	7.9	cloudy	K. Ogawa.
Hakodate	29.75	755.0	29.76	755.9	69.0	20.6	87	w.	3.0	1.3			8		sw.	0.720	18.3	cloudy	
Hiroshima, I. M. Obs'y																			S. Takohayashi.
Kioto	29.73	755.1	29.90	759.4	66.2	19.0	84	nw.	1.9	0.8		2 cs	6 ck		n.	0	0	cloudy	M. Fojima.
Nagasaki, I. M. Obs'y	29.70	754.3	29.89	759.3	71.5	21.9	77	ne.	1.5	0.7		5 cs	0	w.		0	0	fair	
Nemuro	30.00	762.0	30.07	763.8	71.0	21.7	97	sse.	15.0	6.7		0	9		nne.	0	0	overcast	
Niigata	29.85	758.2	29.88	758.9	72.0	22.2	62	w.	7.8	3.5		2 ck	4 ck	w.	w.	0.620	15.7	cloudy	M. Morita.
Nobiru	29.79	756.6	29.80	757.0	71.5	21.9	74	nnw.	9.9	4.4			10 s;ks			1.316?	33.3?	covered	H. Midzushina.
Osaka	29.85	758.2	29.86	758.4	69.5	20.8	71	ene.	3.6	1.6		1 c;cs	3 s;ck			0.068	1.7	clear	
Sapporo					69.7	20.9	95	se.	6.6	2.9			10			0.100	2.5	covered	
Tokei Obs'y, Yeddo	29.74	755.4	29.81	757.2	72.4	22.4	87	ne.	3.0	1.3			10ks;s			0.003	0.1	overcast	The Staff.
Wakayama	29.84	757.9	29.89	759.2	72.0	22.2	65	ne.	6.6	3.0		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	30.00	762.0	30.19	766.8	72.4	22.4	64	ese.	24.5	11.0		2 ck	4 ks	s.	se.	0.04	1.0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.66	601.0	29.88	759.0	60.6	15.9	92	calm	0	0		4 ck	6 kn	e.	e.	1.229	31.2	foggy	Prof. Vicente Fernandez.
Leon.†	24.33	618.0	29.96	761.0	61.5	16.4	94	nne.			1	6 c	4 k	e.		0.218	5.4	covered	Prof. M. Leal.
Mazatlan	29.04	752.5	29.88	759.0	77.5	25.3	91	e.	0.9	0.4		1 cs	1 ks	se.		inap.	inap.	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.09	586.4	30.09	764.3	55.0	12.8	85	calm			0	1 c	0			0.323	8.2	fine	The Staff.
Morelia	24.30	617.3	30.36	771.0	60.4	15.8	65	se.			1	1	1	se.	s.	0	0	clear	M. Tena, M. D
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.92	607.5	29.82	757.4	63.1	17.3	95	calm			0	0	9 ks		ene.	0.040	1.0	very cl'dy	M. V. de Leon, M. E
Puebla, Catholic Institute	23.42	594.5	30.54	775.7	53.8	12.1	95	calm			0	0	3		s.	0	0	clear	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	22.61	574.3	30.25	768.4	50.5	10.8	85	ne.	8.3	3.7		0	6 s		ne.	0	0	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.63	752.7	29.63	752.7	62.8	17.1		s.			5					0.169	4.3		
Groningen	29.60	751.8	29.65	753.2	61.5	16.4		sw.			4					0.067	1.7		
Helder	29.61	752.1	29.61	752.1	59.4	15.2		ssw.			4					0.500	12.7		
Hellevoetsluis	29.65	753.0	29.65	753.0	63.0	17.2	64	ssw.			4					0.102	2.6		
Utrecht	29.62	752.4	29.67	753.6	64.2	17.9	62	ssw.			4		5			0.102	2.6	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.28	743.6	29.34	745.2	57.9	14.4	78	sw.	22	10			10			0.433	11.0	raining	
Brono	29.13	739.9	29.17	740.9	65.3	18.5	51	ese.	9	4			8			0	0		
Christiania	29.14	740.2	29.28	743.7	67.3	19.6	52	sw.	13	6			7			0.138	3.5		
Gæsvær	29.60	751.8	29.62	752.4	56.7	13.7		e.			6		2						
Lodingen	29.27	743.5	29.32	744.7	63.1	17.3	61	ese.			4		5			0.047	1.2		
PORTUGUESE.																			
Angra, Azores					71.8	22.1	75	se.	9.4	4.2			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.06	738.2	30.02	762.5	80.6	27.0	25	w.	2.5	1.1			5			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.14	765.5	30.22	767.7	73.0	22.8	60	sw.	5.6	2.5			8			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.80	757.0	30.16	766.0	69.6	20.9	45	n.	17.4	7.8			2			0	0		The Staff.
Ponta Delgada, Azores	30.30	769.7	30.37	771.5	76.6	24.8	55	se.	3.8	1.7			5			0	0		
Saint Paul de Lotando	29.80	756.8	30.00	761.9	69.4	20.8	89	nw.			1		10			0	0		
Serra da Estrella	25.40	645.2	30.00	762.0	63.0	17.2	13	nw.	13.0	5.8			7			0	0		
RUSSIAN.																			
Akmolinski	28.78	730.9	29.78	756.4	84.7	29.3	33	nw.	7	3		4 k	0			0	0		Major K. Lasarew.
Archangel	29.63	752.6	29.65	753.1	65.3	18.5	74	w.	9	4			9 n			0.071	1.8	light rain	Capt. Sselliwerstow.
Astrakhan	29.93	760.1	29.84	758.0	80.2	26.8	43	w.	22	10		0	8 k			0	0		Capt. Wisganow.
Barnaul	29.30	744.1	29.77	756.1	75.0	23.9	40	wnw.	13	6			7			0	0	light clouds	Meteorological Obs'y.
Dorpat	29.55	750.6	29.78	756.5	68.0	20.0	47	sw.	11	5		cs	9 k			0	0		Observatory.
Ekaterinburg	28.80	731.5	29.70	754.4	80.2	26.8	50	wsw.	9	4		8 ck	0			0.020	0.5	light clouds	Meteorological Obs'y.
Irkutsk																			
Kasan	29.51	749.6	29.76	755.9	83.5	28.6	40	ne.	4	2		0	4			0	0		Observatory.
Kertch	30.06	763.4	30.08	763.9	78.3	25.7	63	sse.	4	2		0	0			0	0		Lagorio & Sastyres.
Kieff	29.31	744.5	29.91	759.8	76.8	24.9	51	s.	16	7		0	0						Observatory.
Lugan	29.81	757.2	30.01	762.2	81.0	27.2	49	wsw.	13	6			3			0	0		Meteorological Obs'y.
Moscow	29.45	748.0	29.89	759.3	76.5	24.7	48	n.	7.8	3.5		2 c	0						Meteorological Obs'y.
Nikolaiev	30.02	762.4	30.09	764.2	80.6	27.0	49	calm	0	0		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.70	755.9	29.90	759.5	65.7	18.7	89	calm	0	0		0	6 ks			0.020	0.5		Physical Observatory.
St. Petersburg	29.77	756.1	29.78	756.5	67.5	19.7	50	sw.	13	6		0	5 k			0.024	0.6		Central Physical Obs'y.
Semipalatinsk	29.22	742.1	29.83	757.6	83.8	28.8	42	nw.	11	5			5			0	0		Major Lasarew
Tashkend, Laboratory	28.30	718.7	29.70	755.9	86.5	30.3	51	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.00	726.3	29.93	760.1	89.8	32.1	31	nw.	4	2		0	0			0	0		Physical Observatory.
Vladivostock	29.72	754.8	29.78	756.5	64.4	18.0	80	calm	0	0		0	1 s						
Warsaw	29.50	749.4	29.92	760.0	57.2	14.0	92	sw.	4	2			10 n					raining	Astronomical Obs'y.
Wilna	29.51	749.6	29.93	760.1	59.4	15.2	84	s.	2	1			10			0.217	5.5	heavy cl'ds.	Berg, Assistant.
Yenisei sk	29.83	757.6	30.11	764.8	58.5	14.7	92	w.	9	4			10			0.071	1.8	raining	M. O. Marks.
SCOTTISH.																			
Monach Lt			29.44	747.8	54	12.2	93	nw.			4	5	5	nw.		0.2	5.	showery	J. Youngclause.
North Unst			29.25	742.9				nw.			4	4	8	nw.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.87	758.7	29.97	761.2	74.8	23.8	62	sw.	3.8	1.7		0	5			0	0	cloudy	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.91	759.7	29.97	761.2	76.8	24.9	51	nw.	2.9	1.3		3	2	nw.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.08	687.9	29.92	760.0	69.8	21.0	46	sw.	10.5	4.7		0	1			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.80	706.1	29.91	759.8	83.1	28.4	40	sw.	6.9	3.1		8	0			0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.84	757.9	29.95	760.8	86.4	30.2	62	ne.	2.9	1.3		4	4	w.		0	0	cloudy	Olayo Diaz, Director
Oviedo	29.16	740.7	30.01	762.2	61.7	16.5	68	e.	10.8	4.8		0	7 ns			0.250	6.5	cloudy	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.13	740.0	30.02	762.5	60.8	16.0	88	sw.	15.0	6.7			10			0	0	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cubit, W. I	29.93	760.2	30.00	761.9	78.0	25.6	84	e.	1.8	0.8		1 c	k		e.	0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.5	29.92	759.9	79.3	26.3	84	e.	1.1	0.5		0	1 k			0	0	clear	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.6	30.08	764.0	75.2	24.0	60	w.	8.2	3.7		0	5		w.	0	0		Capt. C. Pujazon R. N.
San Juan de Porto Rico, W.I	29.91	759.7	30.00	762.0	80.2	26.8	88	se.	3.1	1.4		5 s	3 k	e.	se.	0.472	12.0		Manuel Maese.
Tuguegarao, Philippine Id's	29.79	750.7	29.93	760.2	81.1	27.3	83	nw.	2.3	1.0		1 cs	0	ese.		0	0	clear	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.42	747.3	29.46	748.3	60.8	16.0	87	se.			4		10			0.850	21.6		
Umea	29.30	744.2	29.35	745.5	58.8	14.9	83	ssw.			6		10			0.165	4.2		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Hernosand	29.24	742.8	29.30	744.1	59.7	15.4	79	s.			6		5			0.110	2.8		
Stockholm	29.34	745.1	29.51	749.6	59.2	15.1	75	sw.			7		10			0.020	0.5		
Wisby	29.52	749.7	29.58	751.2	62.2	16.8	69	wsw.			7		7			0.012	0.3		
Sub-series.																			
Upsala	29.33	744.9	29.41	747.1	56.7	13.7	92	s.	17.0	7.6			10		sw.	0.071	1.8	raining	S. G. Fineman.
SWISS.																			
Geneva	28.54	724.8	29.93	760.1	66.9	19.4	46	sse.			3		0			0.067	1.7	clear	The Observatory
TURKISH.																			
Constantinople			29.98	761.5	80.6	27.0	63	ene.	15	6.5			0			0	0		The Observatory.
Valona			30.12	765.1	84.6	29.2		s.			2		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.88	759.0	84.9	29.4	60	nnw.			2	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	29.85	758.2	29.93	760.2	66.5	19.2	66	n.	3	1.3		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.29	744.0	29.93	760.2	63	17.2	93	w.	1	0.4		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.01	635.2	29.73	755.1	60	15.6	67	e.	4	1.8			10 s			0	0	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	27.03	686.5	29.78	756.4	58	14.4	49	sw.	1	0.4		8 k	0	sw.		0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.80	733.0	30.01	762.2	72.0	22.2	82	nw.	5	2.2		10 k	0			0	0	cloudy	H. Hall.
Atlantic City, New Jersey	29.90	759.4	29.91	759.7	69	20.6	76	n.	8	3.6		0	0			0.03	0.8	clear	Jas. M. Watson.
Augusta, Georgia	29.85	758.2	30.04	763.0	71	21.7	82	calm	0	0		7 cs	0			0	0	fair	John Healy.
Baltimore, Maryland	29.93	760.2	29.98	761.5	71	21.7	76	nw.	3	1.3		0	fg.			0	0	clear	Robert Seyboth.
Barnegat, New Jersey	29.88	758.9	29.90	759.4	69.5	20.8	72	n	12	5.4		0	0			0	0	clear	G. A. Hill.
Bennett, Fort, Dakota	28.26	717.8	29.80	756.9	65	18.3	78	sw.	8	3.6		3 ck	3 s	sw.	sw.	0	0	fair	A. Pritchard.
Benton, Fort, Montana	27.07	687.6	29.86	758.4	53	11.7	69	calm	0	0		0	0			0	0	clear	S. Wheaton.
Behring Island, Behring Sea	29.85	758.2	29.87	758.7	51.2	10.7		s.	1	0.4		8 ck	0	w.		0.04	1.0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.01	711.4	29.76	755.9	69	20.6	66	n.	8	3.6		1 c	0			inap.	inap.	clear	Cyrus Cramer.
Block Island, Rhode Island	29.83	757.7	29.86	758.4	66	18.9	78	ne.	12	5.4		2 c	0	n.		0.15	3.8	clear	J. T. Elker.
Boise City, Idaho	26.96	684.8	29.71	754.6	56	13.3	69	n.	4	1.8		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.69	754.1	29.84	757.9	64.0	17.8	65	nw.	12	5.4		0	hz.			0.01	0.3	clear	O. B. Cole.
Brownsville, Texas	29.83	757.7	29.87	758.7	79.4	26.3	91	se.	3	1.3		0	3 ks			0	0	clear	M. McCarty.
Buffalo, New York	29.22	742.2	29.96	761.0	66.8	19.3	91	s.	7	3.1		7 cs	0	s.		0	0	fair	Clarence Weaver.
Buford, Fort, Dakota	27.87	707.9	29.81	757.2	61	16.1	72	e.	6	2.7		6 cs	sk.	calm	calm	0	0	fair	A. H. Bell.
Burlington, Vermont	29.62	752.3	29.91	759.7	59.5	15.3	83	ne.	3	1.3		0	0			0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.58	751.3	29.97	761.2	72.8	22.7	92	sw.	2	0.9			10 s		sw.	0.90	22.9	threatening.	W. H. Ray.
Campo, California	27.30	693.4	29.80	756.9	54.2	12.3	86	w.	2	0.9		0	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	29.92	760.0	29.94	760.5	75	23.9	85	sw.	4	1.8		2 k	0	sw.		0	0	clear	A. K. Alderson.
Cape May, New Jersey	29.90	759.4	29.93	760.2	70.0	21.1	76	n.	7	3.1		0	0			0	0	clear	W. E. Smith.
Cape Mendocino	29.34	745.2			53	11.7	86	n.	21	9.4		0	fg.			0	0	clear	J. R. Williams.
Cedar Keys, Florida	30.01	762.2	30.03	762.7	79	26.1	82	se.	6	2.7		6 ck	0			0	0	fair	F. W. Mixer.
Champaign, Illinois	29.14	740.1	29.93	760.2	70.3	21.3	90	s.	2	0.9			10 s		s.	1.82	46.2	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.96	761.0	30.01	762.2	76	24.4	85	w.	6	2.7		0	0			0	0	clear	J. H. Smith.
Charlotte, N. Carolina	29.13	739.9	29.96	761.0	76.0	24.4	74	w	1	0.4		0	hz.			0	0	clear	D. O'Donoghue.
Chattanooga, Tennessee	29.21	741.9	30.02	762.5	70.0	21.1	90	w.	3	1.3		5 cs	fg.	sw.		0	0	fair	B. L. Goulding.
Cheyenne, Wyoming	24.09	611.9	29.79	756.7	54.1	12.3	39	calm	0	0		0	0			0	0	clear	E. McGovern.
Chicago, Illinois	29.23	742.4	29.92	760.0	71.3	21.8	89	se.	2	0.9			fg.			0	0	dense fog	J. Mitchell.
Chincoteague, Virginia	29.90	759.4	29.92	760.0	72	22.2	90	nw.	4	1.8		0	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.32	744.7	29.96	761.0	72.3	22.4	86	s.	2	0.9			10 s		sw.	0.10	2.5	cloudy	J. F. Harrold.
Cleveland, Ohio	29.26	743.2	29.98	761.5	59.9	15.5	93	se.	5	2.2		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas																0.79	20.1		L. Dorman.
Columbus, Ohio	29.12	739.6	29.95	760.7	69	20.6	93	se.	3	1.3			10s;fg			0	0	cloudy	D. Cuthbertson.
Concho, Texas	27.99	710.9	29.85	758.2	69	20.6	97	calm	0	0			fg.			0.85	21.6	light fog	W. W. McConihe.
Custer, Fort, Montana	26.64	676.6	29.70	754.4	59	15.0	50	w.	6	2.7		0	0			0	0	clear	W. B. Lamar.
Davenport, Iowa	29.28	743.7	29.91	759.7	71	21.7	84	calm	0	0		7 k	0	sw.		1.40	35.6	fair	R. R. Martin.
Davis, Fort, Texas	25.13	638.3	29.78	756.4	63	17.2	84	calm	0	0		0	6 s		sw.	1.42	36.1	fair	J. Williams.
Dayton, Washington T'y	28.17	715.5	29.88	758.9	51.7	10.9	75	sw.	2	0.9		5 cs	0			0	0	fair	H. Clifford.
Deadwood, Dakota	25.30	642.6	29.72	754.9	59	15.0	62	w.	4	1.8		4 k	0	w.		inap.	inap.	fair	G. W. Scott.
Decatur, Texas					69	20.6	76	e.	4	1.8			10 s		ne.	0.29	7.4	cloudy	D. J. Carr.
Delaware Breakwater, Del	29.92	760.0	29.94	760.5	70	21.1	84	ne.	7	3.1		0	1 ks			0	0	clear	T. S. Townsend.
Denison, Texas	29.10	739.1	29.88	758.9	72.0	22.2	97	sw.	4	1.8			10 s			0.07	1.8	cloudy	J. McGlone.
Denver, Colorado	24.73	628.1	29.75	755.6	65.0	18.3	48	s.	6	2.7		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.02	737.1	29.90	759.4	66	18.9	93	calm	0	0			fg			2.03	51.6	dense fog	F. W. Conrad.
Detroit, Michigan	29.28	743.7	29.97	761.2	67.0	19.4	90	calm	0	0		0	0			0	0	clear	C. F. R. Wappenhans.
Dodge City, Kansas	27.35	694.7	29.83	757.7	66	18.9	84	s.	1	0.4		0	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.23	742.4	29.92	760.0	67.3	19.6	93	se.	2	0.9			fg.			0.61	15.5	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.17	740.9	29.89	759.2	63	17.2	100	calm	0	0			fg.			1.11	28.2	dense fog	N. B. Conger.
Eagle Pass, Texas	29.09	738.9	29.88	758.9	77.0	25.0	76	calm	0	0		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.24	641.1	29.79	756.7	54	12.2	55	sw.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	29.71	754.6	29.78	756.4	59.0	15.0	75	n.	5	2.2			10s;hz		n.	0.08	2.0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.17	690.1	29.81	757.2	63	17.2	84	calm	0	0			fg.			0	0	dense fog	W. J. Cundall.
El Paso, Texas	26.22	666.0	29.82	757.4	66	18.9	93	nw.	2	0.9		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.27	743.4	29.98	761.5	64	17.8	90	se.	1	0.4			fg.			0	0	dense fog	Peter Wood.
Escanaba, Michigan	29.27	743.4	29.91	759.7	63.0	17.2	100	s.	2	0.9			10s;ks			0	0	cloudy	George Heathcote.
Fredericksburg, Texas	28.19	716.0	29.90	759.4	74	23.3	94	sw.	4	1.8		9 ck	0	s.		0	0	cloudy	Frank Hulwegler.
Galveston, Texas	29.88	758.9	29.93	760.2	82	27.8	80	sw.	9	4.0		2 c	4 k			0.05	1.3	fair	E. O'C. Machnerney.
Grand Haven, Michigan	29.29	744.0	29.94	760.5	68.0	20.0	93	e.	1	0.4			fg.			0	0	dense fog	W. A. Reid.
Grant, Fort, Arizona	25.20	640.1	29.77	756.1	62.9	17.2	75	e.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.92	760.0	29.94	760.5	80	26.7	82	w.	2	0.9		hz.	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.71	653.0	29.80	756.9	66	18.9	39	w.	6	2.7		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	28.93	734.8	29.93	760.2	71.0	21.7	94	calm	0	0		0	5 s			0.62	15.7	fair	J. W. Byram.
Huron, Dakota	28.48	723.4	29.82	757.4	62.1	16.7	93	se.	6	2.7		0	0			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.18	741.2	29.95	760.7	71	21.7	90	s.	4	1.8			10 s		s.	0.21	5.3	cloudy	O. Schutze
Indianola, Texas	29.90	759.4	29.93	760.2	79.9	26.6	91	s.	6	2.7		2 c	3 ks	n.	s.	inap.	inap.	fair	I. A. Reed.
Jacksboro, Texas	28.74	730.0	29.86	758.4	70	21.1	94	s.	2	0.9		0	3 ks		s.	1.29	32.8	clear	J. P. Sherry.
Jacksonville, Florida	29.99	761.7	30.03	762.7	77	25.0	82	calm	0	0		5 cs	0			0	0	fair	J. W. Smith.
Keogh, Fort, Montana	27.30	693.4	29.73	755.1	65	18.3	70	n.	4	1.8		4 k	4 s;sk	w.		0	0	cloudy	A. Schneider.
Keokuk, Iowa	29.27	743.4	29.90	759.4	70.5	21.4	92	calm	0	0			10 s			0.16	4.1	cloudy	F. Z. Gosewisch.
Key West, Florida	29.97	761.2	29.99	761.7	81.0	27.2	74	ne.	6	2.7			9 ks			0.08	2.0	cloudy	R. H. Paxton.
Kittyhawk, North Carolina	29.95	760.7	29.97	761.2	75	23.9	97	calm	0	0		0	fg.			0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.00	736.6	30.01	762.2	68	20.0	93	calm	0	0		0	fg.			0	0	clear	J. A. Cody.
La Crosse, Wisconsin	29.15	740.4	29.90	759.4	68	20.0	90	s.	2	0.9			fg.			0	0	dense fog	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.06	738.1	29.92	760.0	68	20.0	84	s.	1	0.4		1 ck	fg.	w.		inap	inap.	clear	A. W. Browne.
Lewiston, Idaho	29.04	737.6	29.85	758.2	55.5	13.1	44	calm	0	0		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.62	752.3	29.93	760.2	73	22.8	97	s.	4	1.8			10 s		sw.	0.13	3.3	cloudy	W. U. Simons.
Los Angeles, California	29.49	749.0	29.88	758.9	63	17.2	90	w.	4	1.8		0	0			0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.40	746.7	29.94	760.5	69	20.6	93	calm	0	0			10s;fg			2.53	64.3	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.28	743.7	29.95	760.7	74	23.3	82	sw.	1	0.4		0	0			0	0	clear	Lewis Duane.
Mackinaw City, Michigan	29.30	744.2	29.94	760.5	64.5	18.1	97	w.	2	0.9		6 c	0	w.		0	0	fair	F. R. Day.
Macon, Fort, North Carolina	29.94	760.5	29.95	760.7	77	25.0	85	calm	0	0		5 cs	0			0	0	fair	F. P. Chaffee.
Madison, Wisconsin	28.94	735.1	29.92	760.0	68	20.0	93	s.	2	0.9		2 cs	fg.	w.		0.01	0.3	fair	C. A. Shaw.
Maginnis, Fort, Montana																			H. W. Dodge.
McKavett, Fort, Texas	27.70	703.6	29.92	760.0	71	21.7	84	calm	0	0		5 k	0			0.65	16.5	fair	J. E. Thatcher.
Marquette, Michigan	29.20	741.7	29.91	759.7	66	18.9	90	calm	0	0		7 k	0	w.		0	0	fair	J. Gilligan.
Memphis, Tennessee	29.63	752.6	29.95	761.0	72	22.2	97	calm	0	0			10 s		se.	0.32	8.1	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.19	741.4	29.92	760.0	66	18.9	93	s.	5	2.2			10 s		sw.	0.11	2.8	cloudy	W. Line.

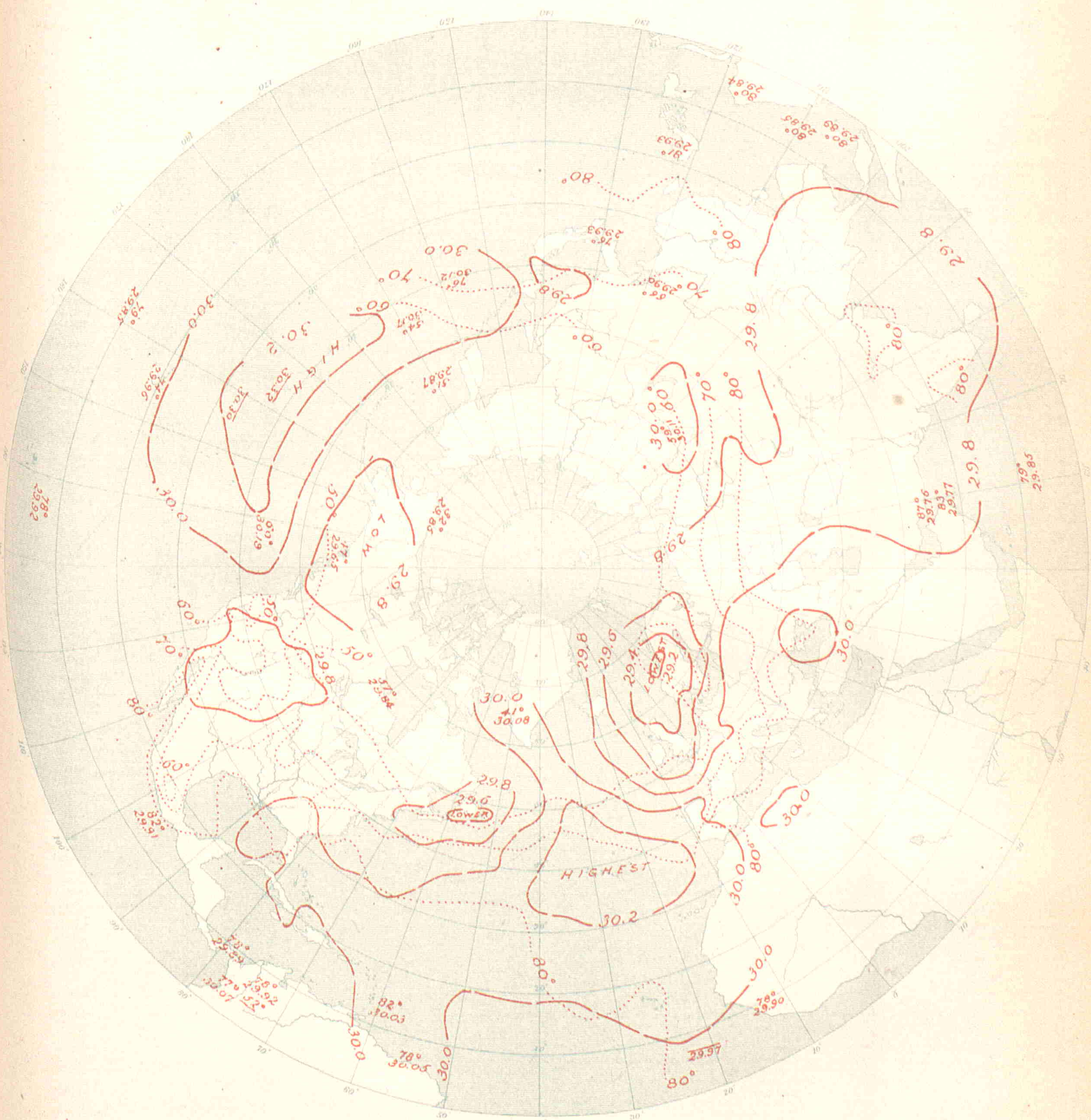
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.63	676.4	29.85	758.2	48	8.9	80	sw.	1	0.4	.....	2 k	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	29.97	761.2	30.01	762.2	77.5	25.3	88	se.	6	2.7	.....	2 ck	4 ks	.....	s.	0.01	0.3	fair	C. A. Read.
Montgomery, Alabama	29.79	756.7	30.02	762.5	72.7	22.6	91	calm	0	0	.....	5 ck	3s ; fg	nw.	.....	0.11	2.8	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.87	733.3	29.84	757.9	67.2	19.6	90	se.	8	3.6	.....	1 k	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.00	736.6	30.00	762.0	64.0	17.8	93	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.67	601.2	29.75	755.6	36.5	2.5	94	n.	56	25.0	.....	.....	fg.	.....	n.	0.35	8.9	dense fog	J. G. Linsley.
Nashville, Tennessee	29.40	746.7	29.96	761.0	72.5	22.5	87	sw.	1	0.4	.....	.....	10 ks	.....	sw.	0	0	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.76	755.9	29.87	758.7	65	18.3	73	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	29.80	756.9	29.84	757.9	69	20.6	76	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.92	760.0	29.97	761.2	78.0	25.6	90	e.	1	0.4	.....	0	sk.	.....	.....	0.87	22.1	clear	L. Dunne.
Newport, Rhode Island	29.80	756.9	29.85	758.2	67.8	19.9	71	nw.	8	3.6	.....	1 c	0	ne.	.....	0.06	1.5	clear	W. McGillivray.
New York, New York	29.75	755.6	29.92	760.0	68	20.0	84	n.	4	1.8	.....	2 cs	0	.....	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	29.92	760.0	29.95	760.7	77	25.0	69	calm	0	0	.....	0	6 k	.....	nw.	0	0	fair	Wm. Davis.
North Platte, Nebraska	27.00	685.8	29.80	756.9	63.6	17.6	76	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	29.84	757.9	29.88	758.9	59.0	15.0	67	s.	4	1.8	.....	.....	10 s	.....	.....	0	0	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.84	757.9	29.85	758.2	31.8	— 0.1	100	ne.	14	6.3	.....	.....	10 n	.....	.....	0.05	1.3	light snow	P. H. Ray.
Omaha, Nebraska	28.76	730.5	29.90	759.4	70.5	21.4	86	calm	0	0	.....	0	fg.	.....	.....	0	0	clear	A. Pollak.
Oswego, New York	29.60	751.8	29.92	760.0	63.3	17.4	91	s.	3	1.3	.....	2 cs	0	n.	.....	0	0	clear	S. W. Beall.
Palestine, Texas	29.40	746.7	29.94	760.5	72.0	22.2	97	sw.	15	6.7	.....	.....	10 n	.....	sw.	1.08	27.4	thnd'r storm	L. M. Pindell.
Pensacola, Florida	29.98	761.5	30.01	762.2	75.0	23.9	97	e	3	1.3	.....	.....	10 s	.....	.....	0.16	4.1	cloudy	M. McGauran.
Philadelphia, Pa.	29.85	758.2	29.95	760.7	70	21.1	70	nw.	7	3.1	.....	0	0	.....	.....	0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	18.04	458.2	29.82	757.4	35	1.7	79	sw.	8	3.6	.....	0	0	.....	.....	0	0	clear	L. M. Dey.
Pioche, Nevada	24.04	610.6	29.74	755.4	65.4	18.6	43	s.	7	3.1	.....	1 k	0	.....	.....	inap.	inap.	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.19	741.4	29.98	761.5	63.4	17.4	93	n.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	J. B. Turton.
Poplar River, Montana	27.72	704.1	.....	.....	.....	.....	.....	s.	.....	.....	1	2 ck	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	29.98	761.5	29.99	761.7	79.3	26.3	87	s.	2	0.9	.....	0	5 k	.....	s.	0.57	14.5	fair	M. Hermann.
Port Huron, Michigan	29.29	744.0	29.95	760.7	63.2	17.3	100	calm	0	0	.....	.....	fg.	.....	.....	0	0	dense fog	W. O. Bailey.
Portland, Maine	29.74	755.4	29.79	756.7	67.0	19.4	68	n.	8	3.6	.....	7 k	0	n.	.....	0.19	4.8	fair	W. W. Eichelberger.
Portland, Oregon	29.87	758.7	29.94	760.5	53.2	11.8	86	calm	0	0	.....	.....	10 s	.....	.....	0	0	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	80	26.7	82	ne.	2	0.9	.....	3 c	2 s	.....	.....	0	0	fair	F. S. Coburn.
Prescott, Arizona	24.81	630.2	29.79	756.7	60	15.6	78	sw.	1	0.4	.....	0	0	.....	.....	0.15	3.8	clear	J. McN. Wright.
Provincetown, Mass.	29.77	756.1	29.80	756.9	65	18.3	84	nw.	10	4.5	.....	3 k	2 s	w.	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	29.98	761.5	29.99	761.7	77.5	25.3	82	ne.	5	2.2	.....	2 c	0	calm	.....	inap.	inap.	clear	W. J. Evans.
Red Bluff, California	.....	.....	.....	.....	.....	.....	.....	n.	.....	.....	1	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.68	753.9	29.92	760.0	79	26.1	82	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Rochester, New York	29.26	743.2	29.92	760.0	61.5	16.4	95	w.	3	1.3	.....	hz	fg.	.....	.....	0	0	dense haze	E. W. McGann.
Roseburg, Oregon	29.43	747.5	29.97	761.2	48	8.9	86	calm	0	0	.....	0	sk.	.....	.....	0	0	dense smoke	J. J. Nanry.
Sacramento, California	29.68	753.9	29.75	755.6	59.9	15.5	75	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.36	745.7	29.94	760.5	71.0	21.7	94	s.	6	2.7	.....	6 c	hz.	e.	.....	0	0	fair	J. H. Webber.
St. Paul, Minnesota	29.02	737.1	29.86	758.4	67.0	19.4	90	se.	2	0.9	.....	7 cs	0	.....	.....	0.14	3.6	fair	P. F. Lyons
St. Vincent, Minnesota	28.95	735.3	29.80	756.9	58	14.4	93	w.	4	1.8	.....	.....	10 s	.....	.....	0.06	1.5	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.56	649.2	29.75	755.6	70	21.1	46	calm	0	0	.....	5 k	0	sw.	.....	0	0	fair	J. Craig.
San Antonio, Texas	29.21	741.9	29.90	759.4	77.0	25.0	90	se.	1	0.4	.....	.....	10 s	.....	se.	0	0	cloudy	T. J. Kenan.
San Diego, California	29.78	756.4	29.85	758.2	67.4	19.7	80	s.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.28	743.7	29.94	760.5	69.8	21.0	76	sw.	6	2.7	.....	5 k	0	w.	.....	0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	29.89	759.2	29.92	760.0	68.0	20.0	78	nw.	11	4.9	.....	1 ck	0	nw.	.....	0	0	clear	B. A. Blandon.
San Francisco, California	29.75	755.6	29.82	757.4	52.5	11.4	90	sw.	4	1.8	.....	0	0	.....	.....	0	0	clear	N. Gerom.
Santa Fé, New Mexico	23.30	591.8	29.79	756.7	59	15.0	56	ne.	8	3.6	.....	1 k	1 k	.....	.....	0.05	1.3	clear	H. U. Jones.
Savannah, Georgia	29.94	760.5	30.02	762.5	80	26.7	74	sw.	4	1.8	.....	6 ck	0	.....	.....	0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.27	667.2	29.80	756.9	50	10.0	66	w.	2	0.9	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.68	753.9	29.90	759.4	74	23.3	100	s.	6	2.7	.....	.....	10 s	.....	s.	0.47	11.9	threatening	E. N. Meekins.
Sill, Fort, Indian Territory	28.66	728.0	29.84	757.9	69	20.6	97	n.	4	1.8	.....	.....	10 s	.....	.....	1.06	26.9	cloudy	T. Cleary.
Silver City, New Mexico	24.29	617.0	29.75	755.6	62	16.7	65	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.59	751.6	29.65	753.1	47.1	8.4	86	ne.	3	1.3	.....	0	0	.....	.....	0.17	4.3	clear	J. J. McLean.
Smith, Fort, Arkansas	29.42	747.3	29.88	758.9	72.0	22.2	97	e.	3	1.3	.....	.....	10 s	.....	e.	inap.	inap.	cloudy	J. B. Campbell.
Smithville, North Carolina	29.94	760.5	29.98	761.5	76	24.4	82	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	O. Parker.
Spokane Falls, Wash. Ter.	27.85	707.4	29.85	758.2	59	15.0	50	se.	6	2.7	.....	10 k	0	.....	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.27	743.4	29.93	760.2	70	21.1	92	e.	4	1.8	.....	.....	10s;fg	.....	w.	0.15	3.8	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.75	755.6	29.88	758.9	68.2	20.1	70	nw.	3	1.3	.....	1 c	0	nw.	.....	inap.	inap.	clear	T. S. Outram.
Springfield, Mo.	28.52	724.4	29.91	759.7	66	18.9	84	calm	0	0	.....	4 cs	fg.	se.	.....	0	0	dense fog	J. B. Marbury.
Starkville, Miss.	29.52	749.8	29.99	761.7	74	23.3	85	se.	4	1.8	.....	0	9 s	.....	se.	1.60	40 6	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.00	711.2	29.78	756.4	62	16.7	93	e.	16	7.2	.....	.....	10 s	.....	e.	inap.	inap.	cloudy	W. Burrows.
Stockton, Fort, Texas	26.93	684.0	29.87	758.7	66.0	18.9	93	calm	0	0	.....	0	3 s	.....	se.	0	0	clear	J. O'Dowd.
Thomas Camp	27.13	689.1	29.75	755.6	69.5	20.8	82	s.	.....	.....	1	0	0	.....	.....	0	0	clear	
Thatcher's Island, Mass.	29.78	750.4	29.83	757.7	62.8	17.1	81	n.	16	7.2	.....	5 k	0	w.	.....	inap.	inap.	fair	G. Liebmann.
Toledo, Ohio	29.28	743.7	29.95	760.7	70.5	21.4	76	calm	0	0	.....	0	7ks;fg	.....	w.	0	0	fair	A. Buell.
Tucson, Arizona	27.45	697.2	29.79	756.7	72	22.2	82	se.	4	1.8	.....	2 ck	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.52	749.8	29.88	758.9	63	17.2	52	sw.	10	4.5	.....	9 ck	0	.....	.....	0	0	cloudy	J. Daly.
Uvalde, Texas	28.93	734.8	29.87	758.7	70	24.4	90	se.	3	1.3	.....	10 cs	0	s.	.....	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	69.8	21.0	55	sw.	.....	.....	2	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.73	755.1	29.97	761.2	73	22.8	98	se.	4	1.8	.....	3 ck	6 s	sw.	.....	0.07	1.8	cloudy	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.45	621.3	29.80	756.9	53.2	11.8	64	calm	0	0	.....	5 k	0	.....	.....	0	0	fair	T. M. Ambler.
Washington, D. C.	29.86	758.4	29.97	761.2	70.9	21.6	77	n.	4	1.8	.....	3 k	0	nw.	.....	0	0	clear	F. M. M. Beall.
West Las Animas, Colorado	26.02	660.9	29.77	756.1	60.4	15.8	78	w.	4	1.8	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg
Williamsport, Pa.	29.37	746.0	29.95	760.7	60	15.6	93	nw.	6	2.7	.....	.....	fg.	.....	.....	0	0	dense fog	B. F. Hough.
Wilmington, N. Carolina	29.92	760.0	29.97	761.2	76	24.4	82	w.	7	3.1	.....	5 ck;k	0	.....	.....	0.15	3.8	fair	Samuel A. Haney.
Winnemucca, Nevada	25.52	684.2	29.70	755.9	47	8.3	26	calm	0	0	.....	0	1 s	.....	sw.	0	0	clear	J. Grover.
Yankton, Dakota	28.59	726.2	29.86	758.4	71	21.7	71	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.56	750.8	29.70	754.4	83.4	28.6	45	e.	3	1.3	.....	0	8 k	.....	e.	0	0	cloudy	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.01	559.0	.....	.....	51.5	10.8	78	calm	0	0	.....	.....	8ks;s	.....	w.	0.02	0.5	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	30.02	762.5	30.03	762.7	82	27.8	82	e.	.....	.....	.....	5 k	5 ks	e.	.....	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.04	763.0	30.07	763.8	77	25.0	90	calm	0	0	.....	.....	10 ks	.....	s.	0.90	22.9	cloudy	J. I. Plume.
Havana, Cuba	29.93	760.2	29.99	761.7	80	26.7	79	se.	3.6	1.6	.....	0	0	.....	.....	0	0	clear	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	29.96	761.0	29.97	761.2	80.2	26.8	.....	calm	0	0	.....	10 cs	0	e	.....	.....	.....	.....	Robert Johnston.
Magun, San Domingo, W. I	.....	.....	.....	.....	73	22.8	.....	calm	.....	.....	0	0	1 ck	.....	e.	0	0	.....	S. M. Pike.
Navassa, W. I.	29.93	760.2	30.01	762.2	82	27.8	82	ne.	4	1.8	.....	4 cs	5 n	ne.	s.	0.20	5.1	cloudy	F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	78	25.6	86	e.	.....	.....	2	3 c	4 k	e.	e.	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.36	745.7	29.92	760.0	78	25.6	89	calm	.....	.....	0	.....	10 ks	.....	calm	0	0	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	79	26.1	90	ne.	.....	.....	1	1 cs	1 ks	sw.	ne.	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.72	754.9	29.77	756.1	43	6.1	93	calm	.....	.....	0	0	6 k	.....	.....	0	0	fair	W. J. Fisher.
St. Thomas, W. I.	30.04	763.0	30.17	766.3	82	27.8	80	e.	.....	.....	.....	0	2 k	.....	e.	0.05	1.3	clear	Aug. Walloe.
York Factory, B. A.	29.78	756.4	29.84	757.9	57.0	13.9	91	sw.	7	3.1	.....	0	2 s	.....	sw.	0	0	fair	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, Hort Bay, Fayal Island	30.37	771.4	76.2	24.6	66	calm			0		1							blue sky.
H. M. S. Alexandra, Port Said, Egypt	29.89	759.2	80	26.7	78	n.			2		0					1	nnw	blue sky.
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.06	763.5	69.5	20.8	84	n.			1		0							misty.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	30.02	762.5	76	24.4		nnw.			3		7	nnw.						d. clouds.
H. M. S. Arab, Muscat, Arabia	29.67	753.6	83	28.3	83	se.			2		2					2	se.	d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.11	764.8	63.5	17.5		e.			1		0							blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	29.83	757.7	57	13.9	93	nne.			1		8							drizzling.
H. M. S. Diamond, S 21° 16′, E. 155° 10′	30.16	766.1	70	21.1	79	ese.			6		2					2	ese.	d. clouds.
H. M. S. Dido, N. 17° 00′, W. 76° 00′	30.00	762.0	81	27.2		e.			3		3	e.						blue sky.
H. M. Dock-Yard, Bermuda, W. I.	29.96	761.0	78	25.6	75	wsw.			1–2		4	wnw.						d. clouds.
H. M. S. Eclipse, N. 30° 15′, E. 32° 27′	29.69	754.1	89.5	31.9		n.			1		3							d. clouds.
H. M. S. Fantome, N. 13° 04′, W. 59° 37′	29.97	761.2	83	28.3		ne.			2		3	ne.						d. clouds.
H. M. S. Flying Fish, N. 36° 57′ E. 125° 33′	29.90	759.4	76.5	24.7	88	n.			1		3							d. clouds.
H. M. S. Gannet, S. 2° 12′, W. 79° 51′	29.95	760.7	67.5	19.7	87	sw.			3		10	ne.				8	ese.	drizzling.
H. M. S. Griffon, N. 46° 43′ W. 53° 23′	29.56	750 8	56.5	13.6	93	sse.			5		10							d. clouds.
H. M. S. Iron Duke, N. 39° 10′ E. 127° 23′	29.86	758.4	79	26.1	95	calm			0		5							showery.
H. M. S. Lark, S. 10° 28′, E. 161° 59′	29.96	761.0	76.3	24.6	92	calm			0		7							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.97	761.2	57	13.9		calm			0									d. clouds.
H. M. S. Magpie, N. 35° 09′, E. 128° 42′	29.93	760.2	75.6	24.2	72	ese.			1		4	nw.						misty.
H. M. S. Minotaur, Aboukir Bay, Egypt	29.91	759.7	80.5	26.9	76	nw.			1		0							blue sky.
H. M. S. Northampton, N. 49° 09′ W. 64° 36′	29.81	757.2	56	13.3	100	nne.			2		10							drizzling.
H. M. S. Pegasus, N. 5° 16′, E. 115° 15′	29.84	757.9	80	26.7	95	calm			0		10							d. clouds.
H. M. S. Sappho, N. 20° 11′, W. 155° 52′	29.96	761.0	74	23.3	90	ene.			3–4		5							squally.
H. M. S. Swiftsure, Coquimbo, Chili	30.17	766.3	55	12.8	87	calm			0		1							foggy.
H. M. S. Sylvia, Montevideo, Uruguay	30.05	763.3	48	8.9	77	sse.			6		10							overcast.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	29.56	750.8	59	15.0	100	sse.			2–4		10							showery.
H. M. S. Triumph, Rio de Janeiro, Brazil	30.06	763.5	70	21.1	79	ne.			1–2		2	calm						d. clouds.
H. M. S. Woodlark, Jask, Persia	29.66	753.4	86.5	30.3	69	s.			3–4		4					3	s.	d. clouds.
Portuguese Naval.																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.07	763 7	82.4	28.0	85	ne.			1		1		ne.			1		blue sky.
Tamega, Macao, China	29.92	760.0	84.2	29.0	81	sw.			2		2							blue sky.
United States Naval.																		
Navy Yard, Pensacola, Fla.	30.04	763.0	77	25.0	91	e.	3	1.3			10		sw.	0.03	0.8			cloudy.
Navy Yard, Portsmouth, N. H.	29.81	757.2	65	18.3	73	nw.	8	3.6			9		nw.	0	0			cloudy.
Naval Hospital, Yokohama, Japan*	29.69	754.1	72.5	22.5	92	calm			0		8		w.	1.05	26.7			cloudy.
Adams, Mare Island, Cal.			55	12.8	100	sw.			3		0			0	0	sm'h		clear.
Alaska, N. 7° 00′, W. 136° 54′	29.92	760.1	78	25.6	78	ese.			4		8		s.	0	0	sm'h		fair.
Alliance, N. 42° 51′ W. 69° 48′	29.76	755.9	66	18.9	100	n.			2		2			0	0	sm'h		clear.
Ashuelot, Yokohama, Japan*	29.71	754.6	75	23.9	95	n.			2		8		calm					cloudy.
Brooklyn, Rio de Janeiro, Brazil	30.09	764.3	73	22.8	85	sw.	2	0.9			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	29.90	759.4	69	20.6	85	n.	4	1.8			0			0	0			light mist.
Constellation, Chesapeake Bay*	29.94	760.5	76	24.4	73	nnw.			3		0							clear.
Essex, Coquimbo, Chili	30.08	764.0	52	11.1	79	nnw.			1		8?		wnw.			sm'h	wnw.	clear ?
Franklin, Norfolk, Va.	29.99	761.7	73	22.8	90	w.	1	0.4			2		w.	0	0			fair.
Galena, N. 2° 36′, W. 24° 25′	30.06	763.5	77	25.0	95	s.			4		2		ssw.			mod.	s.	clear.
Hartford, N. 36° 27′, W. 22° 19′ *	30.28	769.1	71	21.7	75	ne.			3–4		8		ne.	0	0	sm'h		cloudy.
Independence, Mare Island, Cal.	29.86	758.4	56	13.3	100	sw.			4		0			0	0			clear.
Iroquois, N. 14° 35′ W. 96° 58′	29.91	759.7	82	27.8	79	se.			1		2		e.			sm'h	s.	clear
Kearsarge, Portsmouth, N. H.	29.81	757.2	64	17.8	83	nw.			2		8							fair.
Lackawana, Callao, Peru*	30.00	762.0	61	16.1	88	n.			1		10							misty.
Lancaster, N. 42° 54′, E. 9° 33′*	29.89	759.2	78	25.6	73	wsw.			5		5		w.	0	0	mod.	w.	fair.
Marion, S. 34° 54′, W. 56° 13′	29.99	761.7	50	10.0	65	s.			5		10		ssw.			r'gh	ssw.	cloudy.
Michigan, Lake Superior	29.87	758.7	59	15.0	94	sw.			1		8		sw.					cloudy.
Minnesota, New York, N. Y.	29.94	760.5	71	21.7	71	n.	3	1.3			0							clear.
Monocacy, N. 37° 27′ E. 126° 33′	29.90	759.4	77	25.0	77	nnw.			2		8		nnw.					fair.
New Hampshire, Newport, R. I.	29.88	758.9	69	20.6	90	s.			2		10		nw.			sm'h		fair.
Nipsic, N. 39° 33′, E. 14° 18′ *	29.97	761.2	82	27.8	71	se.			1		2					sm'h		fair.
Onward, Callao, Peru†	30.13	765.3	60	15.6	94	n.			1		10					long	w.	misty.
Palos, Kobe, Japan*	29.83	757.7	74	23.3	76	n.			3		2		w.					fair.
Passaic, Washington, D. C.			71	21.7	85	calm			0		2							fair.
Pensacola, Payta, Peru*	29.91	759.7	61	16.1	82	se.	5	2.2			10			0	0	sm'h		cloudy.
Portsmouth, Gibraltar, Mediterranean *	29.98	761.5	72	22.2	76	w.			3		2					sm'h		clear.
Powhatan, Norfolk, Va.	29.93	760.2	75	23.9	90	w.			1		2							fair.
Quinnebaug, Alexandria, Egypt*	29.88	758.9	80	26.7	82	nnw.			2		0					sm'h		clear.
Ranger, Mare Island, Cal.	29.86	758.4	59	15.0	76	sw.			2		2			0	0			fair.
Richmond, Yokohama, Japan*	29.72	754 9	76	24.4	95	nw.			2		5		nw.	1.78	45.2			fair.
Saratoga, Gibraltar, Mediterranean	29.90	759.4	76	24.4	68	wsw.			2		2		wsw.	0	0	sm'h		fair.
St. Louis, League Island, Pa.	30.17	766.3	69	20.6	75	n.			1		0			0	0			clear.
Swatara, N. 4° 04′, E. 105° 20′*	29.69	754.1	80	26.7	78	ssw.			1		10		s.			sm'h		cloudy.
Tennessee, N. 42° 52′, W. 69° 48′ †.	29.83	757.7	67	19.4	89	nnw.	13	5.8			2			0.07	1.8			fair.
Vandalia, Portsmouth, N. H.*	29.77	756.1	64	17.8	78	nw.			1		2		n.					fair.
Wabash, Boston, Mass.	29.80	756.9	66	18.9	64	nw.	9	4.0			2		nw.	0	0			clear.
Wachusetts, Fort Wrangle, Alaska †	29.95	760.7	49	9.4	93	ene.			1		10		calm			sm'h		foggy.
Wyoming, Port Royal, S. C.*	29.99	761.7	75	23.9	86	sw.	20	8.9			2		sw.	0	0			clear.
Yantic, N. 42° 45′, W. 69° 57′	29.79	756.7	66	18.9	89	wsw.			2		2					sm'h		fair.
MERCHANT MARINE.																		
Allan Line.																		
S. S. Circassian, N. 56° 00′, W. 27° 00′*	29.91	759.7	52	11.1	93	nw.			6		6		wnw.	inap.	inap.	3	nw.	raining.
S. S. Grecian, Ismailia, Egypt *	29.85	758.2	85	29.4		nne.			1		0			0	0			clear.
S. S. Nova Scotian, N. 45° 14′, W. 60° 05′	29.53	750.0	58	14.4		wnw.			4		10		w.			sli't	ssw.	cloudy.
S. S. Polynesian, Moville, Ireland *	29.26	743.2	66	18.9		calm			0		6		nw.	3 h'r	3 h'r			cloudy.
S. S. Scandinavian, N. 48° 39′, W. 40° 18′*†	29.98	761.5	69	20.6		ssw.			5		10		sw.	21 h'r	21 h'r	mod	wsw.	heavy rain.
S. S. Waldensian, N. 48° 05′ W. 51° 48′ *	29.74	755.4	56	13.3		sse.			4		fg		sse.	0	0	mod.	ssw.	foggy.
American Steamship Company.																		
S. S. British Crown, N. 43° 50′, W. 51° 33′†	29.80	756.9	66	18.9		s.			4		8		sw.	0	0	r'gh	wsw.	cloudy.
S. S. Indiana, Philadelphia, Pa †	29.87	758.7	72	22.2	95	nw.			3		2		nw.					fine.
S. S. Lord Clive, Liverpool, England*†	29.43	747.5				s.			4		10		s.	0	0			cloudy.
S. S. Lord Gough, Philadelphia, Pa	29.89	759.2	76	24.4		nw.			3		0			0	0			fair.
S. S. Ohio, N. 50° 13′, W. 18° 49′†	29.83	757.7	75	23.9	95	nw.			5		8		nw.			mod.	w.	squally.
Amsterdam Line.																		
S. S. Stella, N. 42° 09′ W. 50° 20′	29.93	760.2	74.3	23.5		w.			4		3		sw.	1 h'r	1 h'r	3	s.	d. clouds.
Anchor Line.																		
S. S. Alexandria, N. 37° 38′ W. 12° 27′	30.23	767.8	67.8	19.9		n.			3		9		n.	0	0	5	n.	overcast.
S. S. Assyria, N. 50° 15′, W. 2° 10′†	29.40	746.7	63	17.2		wsw.			7		7		wsw.	0	0	r'gh	wsw.	
S. S. Bolivia, New York, N. Y. *†	29.91	759.7	76	24.4		nw.			1		0			0	0			fine.
S. S. Devonia, N. 48° 36′, W. 40° 36′†	30.05	763.3	69	20.6		ssw.			3		9		sw.			sm'h		cloudy.
S. S. Dorian, N. 42° 20′ W. 50° 28′*	29.76	755.9	68	20.0		wsw.			2		2		w.	0	0	mod.	w.	clear.
S. S. Utopia, N. 50° 10′, W. 7° 05′	29.01	752.1	65	18.3	78	nw.			6				wnw.	0	0	h'vy	nw.	overcast.
Atlas Line.																		
S. S. Alene, Cartagena, U. S. C.†	29.87	758.7																
S. S. Alpin, N. 28° 37′, W. 74° 00′	30.02	762.5				n.			2		1		nw.	0	0		ne.	
S. S. Antillas, N. 18° 43′ W. 74° 30′†	29.80	756.9	92	33.3		var.			1		2			0	0			d. clouds.
British Meteorological Office.																		
Auckland, S. 46° 31′, E. 42° 58′	29.58	751.3	48	8.9	78	nnw.			5		6							blue sky.
S. Baroda, N. 27° 56′, W. 40° 20′	30.15	765.8	78.5	25.8	82	n.					2							blue sky.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Meteorological Office.—Continued.																		
S. S. Basil, N. 19° 00′ W. 23° 20′	30.06	763.6	77.5	25.3	93	calm			0		4							d. clouds.
S. S. British Merchant, N. 17° 23′, W. 26° 10′	30.06	763.5	81	27.2	87	ssw.			1		2							blue sky.
Bk. Caldew, S. 37° 20′ E. 41° 48′	30.57	776.5	62	16.7	83	n.			5		2							blue sky.
S. S. City of Agra, S. 39° 25′, E. 69° 13′	29.93	760.2	49	9.4	85	w.			6		6							d. clouds.
S. S. Humboldt, S. 31° 25′, W. 49° 00′	29.82	757.4	66.5	19.2	90	wnw.			4		9							overcast.
S. S. Minho, S. 34° 36′, W. 58° 10′	30.13	765.3	53.6	12.0	77	ssw.			5		3							d clouds.
S. S. Oamarn, N. 38° 10′, W. 35° 10′	30.32	770.1	77.8	25.4	73	se.			3		3							d. clouds.
S. S. Rosetta, N. 8° 20′, E. 60° 17′	29.85	758.2	78.5	25.8	82	wsw.			4		8							d. clouds.
Cromwell Line.																		
S. S. Hudson, N. 27° 40′, W. 87° 15′ †	30.05	763.3	82	27.8		calm			0		4		nw.	0	0	mod.	se.	fair.
Cunard Line.																		
S. S. Gallia, N. 40° 55′, W. 62° 14′	29.68	753.9	76	24.4	95	sw.			5		5		nw.	0	0	mod.	ne.	fine.
S. S. Marathon, Lake Ismalia, Egypt	30.03	762.7	89	31.7		wnw.			1		0			0	0	sm'h	wnw.	clear.
S. S. Scythia, N. 46° 18′, W. 41° 47′	29.94	760.5	74	23.3	100	ssw.			3		7		ssw.	3 h'r	3 h'r	sli't	ssw.	fair.
Donaldson Line.																		
S. S. Colina, Glasgow, Scotland†	29.70	754.4				wnw.			2		6		w.					cloudy.
General Trans-Atlantic Company.																		
S. S. France, N. 40° 55′, W. 65° 30′†	29.67	753.7	68.0	20		sw.			4		10 k		sw.	rain	rain		e.	raining.
S. S. Ville de Marseilles, N. 40° 30′ W. 68° 43′*†	29.60	751.8	67	19.4		nw.			5		0			0	0	sm h		clear.
Guion Line.																		
S. S. Arizona, N. 44° 45′, W. 52° 10′ †	29.71	754.6	62	16.7		sw.			5		10		w.	6 h'r	6 h'r	mod.	sw.	overcast.
S. S. Wisconsin, N. 48° 40′, W. 44° 30′	29.84	757.9	59	15.0		s.			2		10		w.	7 h'r	7 h'r	mod.	sw.	foggy.
Hamburg American Packet Company.																		
S. S. Frisia, N. 49° 10′, W. 21° 45′*	30.03	762.7	61	16.1		wnw.			6		5		wnw.	3 h'r	3 h'r	high	wnw.	fair.
S. S. Herder, N. 40° 09′, W. 69° 48′ *	29.53	750.0	69	20.6		nw.			4		1		nw.	0	0	mod.	nw.	clear.
S. S. Silesia, N. 40° 32′, W. 73° 21′	29.90	759.4	69.9	21.1		n.			5					0	0	2	n.	fair.
S. S. Vandalia, N. 51° 27′, E. 2° 02′ *	29.56	750.8	53.8	12.1		sse.			5		10		sse.			mod.	sse.	light rain.
Johnston Line.																		
S. S. St. Albans, N. 44° 54′, W. 37° 40′ *†	30.30	769 6	72	22.2		sw.			3		4		sw.	0	0	mod.	ssw.	clear.
Lampert and Holt's Line.																		
S. S. Hevelius, S. 10° 00′, W. 35° 00′ *†	30.29	769.4	78	25.6		ese.			6		2		ese.	0	0	long	se.	clear.
Leyland Line.																		
S. S. Bulgarian, N. 53° 29′. W. 4° 20′*	29.41	747.0				ene.			1		10		nw.	0	0			cloudy.
Mallory Line.																		
S. S. Colorado, New York, N. Y †	29.95	760.7	69	20.6		nw.			2		0			0	0			clear.
S. S. San Marcos, Galveston, Texas	30.05	763.3				ssw.												fine.
Mediterranean and New York Steamship Co.																		
S. S. Archimede, Naples, Italy*†	30.04	763.0	81	27.2	66	w.			2		2			0	0			clear.
Merchants Express Line.																		
S. S. Hermod, N. 49° 08′, W. 13° 04′†	29.67	753.6	62.6	17		nw.			8		10		nnw.	4 h'r	4 h'r	r'gh	nw.	clearing.
Merchant Steamship Company.																		
S. S. Glenfyne, N. 33° 25′, W. 71° 01′	29.43	747.5				wnw.			3		5?		nw.	0	0	cross	e.	cloudy?
S. S. Glenapp, Bahia, Brazil†	30.06	763.5				var.			2		5		se.	2 h'r	2 h'r			showery.
Morgan Line.																		
S. S. Chalmette, New York, N. Y†	29.89	759.2	76	24.4		nne.			1		0			0	0			clear.
S. S. New York, N. 25° 35′, W. 84° 40′ †	29.97	761.2	83	28.3		ese.			3		3		calm			small	e.	clear.
National Line.																		
S. S. Denmark, Harve, France	29.62	752.3	64	17.8		wnw.			5		10		w.	4 h'r	4 h'r			dull.
S. S. Erin, N. 40° 55′, W. 53° 00′	29.93	760.2	76	24.4	86	w.			5		4		w	4 h'r	4 h'r	long	wsw.	
S. S. Helvetia, Liverpool, Eng	29.35	745.5	63	17.2		nnw.			6		8		wnw.	12 h'r	12 h'r			dull.
New York and Cuba Mail Steamship Company.																		
S. S. Santiago, Cienfuegos, Cuba, W. I †	30.02	762.5	83	28.3		calm			0					0	0			fine.
New York, Havana and Mexican Mail.																		
S. S. City of Alexandria, Progresso Roads, C. A.†	29.98	761.5	79	26.1	91	ne.			2		2		ne.	0	0			clear.
S. S. City of Washington, N. 37° 53′, W. 74° 30′ *†	30.08	764.0	76	24.4		w.			2		1		w.	0	0	light	e.	clear.
New York Herald Weather Service.																		
S. S. Amsterdam, N. 41° 13′ W. 66° 35′*	29.87	758.7	68	20.0		nw.			3								ene.	foggy.
S. S. Lone Star, N. 26° 10′ W. 85° 12′*†	30.05	763.3	82	27.8		ese.			6							mod.	se.	fair.
S. S. Maas, N 48° 36′, W. 20° 41′*	29.97	761.2	62	16.7		wnw.			7							high		rainy.
North German Lloyd.																		
S. S. America, N. 50° 37′ E. 0° 01′*	29.42	747.3	62.0	16.7	94	ssw.			7		10		sw.	2 h'r	2 h'r	short	ssw.	drizzling.
S. S. Donau, N. 47° 25′, W. 35° 42′	30.19	766.8				ssw.			3–4		8		sw.	0	0	mod.	ssw.	cloudy.
S. S. Elbe, N. 52° 54′, E. 4° 00′	29.56	750.9	64.4	18.0	85	wsw.			4–5		8		wsw.	0	0	sm'h	wsw.	cloudy.
S. S. Gen. Werder, N. 42° 38′, W. 59° 38′	29.79	750.7				w.			3					4 h'r	4 h'r	mod.	wnw.	clear.
S. S. Graf Bismarck, S. 21° 13′, W. 40° 11′	30.25	768.3	73.4	23.0		n.			4		5		n.	0	0	light	n.	clear.
S. S. Habsburg, N. 42° 13′, W. 47° 46′	30.01	762.2	72.5	22.5		sssw.			4		2		ssw.	7 h'r	7 h'r	mod	ssw.	fair.
S. S. Hohenslaufen, N. 51° 37′, E. 2° 09′	29.59	751.6	60.8	16.0		ssw.			6		10		ssw.	4½ h'r	4½ h'r	5	sw.	cloudy.
S. S. Koln, off Cape Henry, Va*	29.96	761.0	80.0	26.7	82	calm			0		5?		nw.	0	0	light	s.	clear?
S. S. Ohio, N. 45° 15′, W. 37° 32′	30.23	767.8				sw.			5		1		ssw.	0	0	mod.	ssw.	fair.
S. S. Saller, Bremerhaven, Germany	29.48	748.8	55.4	13.0		w.			3		8		wsw.	4 h'r	4 h'r			cloudy.
S. S. Strassburg, N. 47° 14′, W. 52° 45′	30.00	762.0	64.0	17.8	?	ssw.			3		10		ssw.	4 h'r	4 h'r	mod.	sw.	covered.
Occidental and Oriental Steamship Company.																		
S. S. Arabic, N. 44° 38′, E. 165° 44′†	30.17	766.3	54	12.2	93	var.			2–3		8		nnw.	0	0	sm'h		cloudy.
S. S. Belgic, Hong Kong, China†	29.99	761.7	83	28.3	99	nw.			1		10		s.	0	0			cloudy.
S. S. Coptic, N. 43° 59′ W. 138° 07′†	30.19	766.8	59.5	15.3	91	nw.			4		6		nw.	0	0	3	nnw.	d. clouds.
S. S. Gaelic, N. 23° 40′, E. 118° 07′†	30.04	763.0	80	26.7	91	n.			2		6?		w.			sm'h		clear.?
Ocean Steamship Company.																		
S. S. City of Augusta, N. 37° 52′, W. 74° 33′†	30.00	762.0				nw.			2		0			0	0	long	e.	clear
S. S. Seminole, Savannah, Ga†	30.12	765.0	78	25.6	82	sw.			1		1		sw.	0	0			clear.
Oregon Improvement Company.																		
S. S. Mississippi, Seattle, Wash. Ter.†	29.92	760.0	60	15.6	71	sse.			1		9		sw.					light rain.
Oregon Railway and Navigation Company.																		
S. S. Columbia, N. 45° 27′, W. 121° 15′†	29.93	760.2	59	15.0	88	se.			2		9					light	nnw.	cloudy.
S. S. Oregon, San Francisco, Cal †	29.82	757.4	53	11.7	93	calm			0		0							hazy.
Pacific Coast Steamship Company.																		
S. S. Ancon, San Francisco, Cal †	29.75	755.6	52	11.1	93	w.			2		0							clear
S. S. City of Chester, San Francisco, Cal			53	11.7	93	nw.			2		0							clear.
S. S. Idaho, Seattle, Wash. Ter†	30.01	762.2	60	15.6	71	se.			4		8		s.	0	0			cloudy
S. S. State of California, Portland, Oregon †	29.93	760.2	57	13.9	81	calm			0		10							drizzling.
S. S. Victoria, Nanimo, Vancouver's Island†	29.78	756.5	56	13.3	87	sw.			2		5			0	0	sm'h		fair.
Pacific Mail Steamship Company.																		
S. S. Australia, N. 10° 46′, W. 162° 46′	29.85	758.2	79	26.1	91	ne.			3		10?		ne.	12 h'r	12 h'r	mod.	ne.	clear?
S. S. City of New York, Sydney, N. S. W†	30.27	768.8	63	17 2	78	calm			0		2		w.	0	0			fair.
S. S. City of Pekin, N. 28° 30′, E. 125° 39′†	30.07	763.8	80	26.7	82	w.			3		5		w.	0	0	sm'h		fair.
S. S. City of Tokio, N. 41° 10′, E. 156° 55′†	30.22	767.6	76	24 4	00	se.			4		10		e.	0	0	small	s.	cloudy.
S. S. Colima, Panama, Panama†	29.89	759.2	78	25.6	86	nw.			2		8		nw.	0.08	2.0			fair.
S. S. Colon, N 36° 30′ W. 73° 40′†	30.01	762.2	78	25.6		nw.			2		3		nw.	0	0	large	ese.	fair.
S. S. Costa Rica, N. 36° 10′, W. 121° 50′ *	29.90	759.4	54	12.2	100	nw.			3		5		nw.	0	0	h'vy	nw.	hazy.
S. S. Clyde, N. 23° 00′, W. 108° 19′†	29.89	759.2	83	28.3	87	se.			2		8		se.	1 h'r	1 h'r	long	se.	cloudy.
S. S. Grenada, N. 31° 03′, W. 117° 11′†	29.86	758.4	69	20.6	90	nw.			2		10			0	0	sm'h	wnw.	hazy.
S. S. Zelandia, Sydney, N. S. W.	30.24	768.1	63	17.2		var.			1		5		ne.					fine.
Quebec Steamship Co.																		
S. S. Bermuda, N. 20° 43′, W 64° 22′ †	30.06	763.5	84	28.9		se.			3		3		se.	2 h'r	2 h'r	long	se.	fine.
S. S. Muriel, N 25° 30′, W. 66° 08′	30.10	764.5	84	28.9		e.			4		10			0	0	long	ne.	overcast.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
RED D LINE.																		
S. S. Valencia, N. 30° 02′, W. 70° 28′*†	30.22	767.6	81	27.2	87	w.			2		1		nnw.	0	0	light	ne.	fair.
RED STAR LINE.																		
S. S. Belgenland, N. 45° 13′, W. 36° 00′†	30.44	773.2	78	25.6	82	sw.			4		9			0	0	sm'h		
S. S. Nederland, N. 47° 08′, W. 43° 54′†	29.85	758.2	63	17.2	94	sse.			4		fg.		sse.	6 h'r	6 h'r	mod.	sse.	dense fog.
S. S. Pennland, New York, N. Y.	30.04	763.0				ne.			5		10		ne.	0	0			hazy.
S. S. Rhynland, N. 40° 30′, W. 72° 30′	29.94	760.5	72	22.2	62	n.			5		2		n.	0	0	sm'h		hazy.
S. S. Vaderland, Antwerp, Belgium	29.69	754.1	62	16.7	72	ssw.			3		8		sw.	0	0			cloudy.
S. S. Waesland, Antwerp, Belgium	29.63	752.6	66	18.9	68	sw.			4		10		sw.	3 h'r	3 h'r			rainy.
ROTTERDAM LINE.																		
S. S. Edam Amsterdam, Holland	29.76	755.9	57.5	14.2	97	w.			7		7		w.	0	0			squally.
S. S. Schiedam, N. 47° 28′ W. 30° 26′	30.25	768.3	65.3	18.5	80	se.			4		8		ne.	0	0	mod	e.	cloudy.
S. S. W. A Scholten, Rotterdam, Holland*	29.48	748.8	62.7	17.1	66	wnw.			4		6		w.	3 h'r	3 h'r			fair.
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, N. 19° 49′, W. 74° 28′	29.95	760.7	84	28.9		ene.			2		10		ene.	0	0	gentle	ene.	cloudy.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.34	745.2	64	17.8		w.			3		8		sw.	sh'rs	shr's			cloudy.
S. S. State of Georgia, N. 53° 03′, W. 26° 42′.†	30.02	762.5	53	11.7		nw.			6		8		nw.	0	0	mod.	nw.	cloudy.
S. S. State of Indiana, N. 40° 28′, W. 68° 58′†	29.99	761.7	68	20.0		nw.			2		2		nw.	0	0	sm'h		clear.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 44° 58′, W. 47° 49′†	30.10	764 5	66.2	19.0	64	sse.			2		5		sse.	2 h'r	2 h'r	long	sse.	covered.
WHITE CROSS LINE.																		
S. S. Plantyn, N. 50° 32′ W. 1° 30′	29.48	748.8	46	7.8					4–6		4			5 h'r	5 h'r	4	sw.	rainy.
WHITE STAR LINE.																		
S. S. Adriatic, N. 40° 34′, W. 69° 20′†	29.93	760.2	68	20.0	95	wnw.			5		5		n.	0	0	mod.	ne.	light haze.
S. S. Britannic, N. 48° 57′, W. 29° 54′†	30.30	769.6	59	15.0	94	n.			2		5		nne.	0	0	mod.	nw.	d. clouds.
S. S. Celtic, Liverpool, Eng†	29.43	747.5	60	15.6	88	sw.			2		10		sw.	shr's	shr's			showery.
S. S. Germanic, N. 42° 06′, W. 61° 48′†	29.89	759.2	67	19.4		wsw.			2		1		wsw.	2 h'r	2 h'r	sm'h		d. clouds.
S. S. Republic, N. 51° 14′, W. 20° 27′†	30.02	762.5	60	15.6	88	nw.			6		5		nw.	sh'rs	sh'rs	r'gh	nw.	squally.
WILSON LINE.																		
S. S. Otranto, N. 45° 36′, W. 54° 56′†	29.62	752.3	60	15.6		sw.			6		10		sw.			cross	s.	hazy.
S. S. Romano, N. 40° 20′ W. 50° 00′	29.93	760.2	80	26.7		s.			2		1		s.	0	0	hv'y	w.	clear.
S. S. Salerno, N. 49° 24′, W. 16° 36′*	29.57	751.1	60	15.6		wsw.			8		7		w.	0	0	h'vy	nw.	
WINSOR LINE.																		
S. S. Aries, N. 42° 10′, W. 70° 00′*†	29.80	756.9				nw.			8		5?		wnw.	0	0	long	e.	clear.?
S. S. Catherine Whiting, Providence, R. I.†	29.92	760.0	70	21.1		n.			1		0			0	0			
MISCELLANEOUS.																		
Bk. Adelaide, N. 16° 34′, W. 49° 33′*†	30.06	763.5	83	28.3		ene.			5		1		e.	0	0	mod.	ene.	fair.
Schr. Ajax, N. 38° 07′ W. 74° 40′†	30.05	763.3				calm			0		8		w.	0	0	sm'h	ne.	hazy.
Sch. Anna A. Holton, N. 25° 27′ W. 78°26′†	30.01	762.2	85	29.4		e.			5		3		e.	0	0	sm'h	ne.	clear.
Bk. Anna Thorman, S. 7° 38′, E. 105° 22′	29.89	759.3	80.2	26.8	84	se.			5		9 k;n		ese.	0	0	short	e.	cloudy.
S. S. Antonio Lopez, Santander, Spain*	29.94	760.5	76	24.4	57	calm			0		6			0	0	long	nw.	fair.
Schr. Asa Eldridge, Punta Rassa, Fla†	30.15	765.8				ne.			3		5		e.	0	0			fair.
Bk. Aureola, N. 21° 14′, W. 57° 25′*†	30.16	766.1	90?	32.2?		ese.			3		3		e.	0	0	light	e.	clear.
Bk. B. F. Watson, N. 6° 27′, W. 25° 35′†	29.98	761.5	80	26.7		sw.			3		8		sw.	0	0	mod		cloudy.
Bk. Bergenseren. N. 39° 56′, W. 15° 40′†	30.20	767.0				nw.			3				nnw.	0	0	3	nw.	fair.
Bk. Bremen, N. 47° 17′. W. 45° 16*†	30.14	765.5				s.			4		4		sw.	10 h'r	10 h'r	swell	ssw.	clear.
S. S. Burswell, N. 40° 42′, W. 33° 58′*†	30.33	770.4	77	25.0		se.			2		1		calm	0	0	sll't	wnw.	clear.
Bk. Cato, Hudiksvall, Sweden*†	29.63	752.6				sw.			4									cloudy.
Bk. Celestina, N. 30° 33′ W. 37° 19′*†	30.16	766.1				ene.			2		0			0	0	mod.	ese.	clear.
S. Dora, S. 32° 35′ W. 32° 50′†	30.09	764.3	68.0	20.0		nw.			6		9 k;s		s.	0	0	high	nnw.	cloudy.
Schr. Edith R. Seward, Baltimore, Md*†	29.98	761.5	74	23.3		ne.			1		1		ese.	0	0	sm'h		clear.
S. E. J. Spicer, N. 46° 13′, W. 21° 50′*	30.15	765.8	66	18.9		n.			6		10		n.	2 h'r	2 h'r	mod.	n.	overcast.
Bk. E. L. Petitngill, N. 34° 31′, W. 158° 19′†	30.50	774.7				ene.			4		1		e.	0	0	sm'h	e.	
S. Enoch Train, Bremerhaven, Germany†	29.90	759.4				sw.			6		5		wsw.	shr's	shr's			squally.
Bk. Essex, Aden, Arabia			88	31.1		ssw.			6		7		ssw.	1 h'r	1 h'r	mod		fair.
Bk. Franklin, N. 55° 32′, E. 12° 44′*†	29.90	759.4				sw.			4		2			0	0	sm'h		fair.
Bk. Freya, N. 45° 46′, W. 32° 34′			74	23.3		w.			3		5		wsw.	0	0	sm'h		
S. Glendon, N 29° 05′, W. 46° 57′†	30.11	764.8	87	30.6		se.			2		8		se.	0	0	sm'h		fair.
Bk. Godfrey, N. 16° 17′, W. 26° 33′	30.03	762.7	79.5	26.4	90	sw.			2		5		sw.	0	0	long	sw.	fair.
S. Grecian, N. 6° 40′, E. 109° 00′*†	29.85	758.2	80	26.7		ne.			2		5			2 h'r	2 h'r	sm'h		fair.
Bk. Gronsvaer, N. 6° 20′, W. 21° 40′†	29.97	761.3				sw.			5		10		sw.	16 h'r	16 h'r	mod.	sw.	showery.
Bk Hattie G. McFarland, Bath, Maine*†	29.80	756.9	66	18.9		nw.			1		3		n.	0	0			fair.
Schr. Hattie Weston, Wilmington, Del*†	30.02	762.5	74	23.3		ne.			3		1		ne.	0	0	sm'h		clear.
Schr. Henry Denison, N. 20° 10′ W. 73° 20′†	29.96	761.0				ese.			4		4		calm			sm'h	nw.	fair.
Bk. Horace Scudder, N. 18° 50′, W. 63° 45′†	30.12	765.0	82	27.8		ene.			3		2		se.	0	0	light	e.	blue sky.
S. Ivy, S. 55° 35′ W. 63° 50′†	30.11	764.8	39	3.9		calm			0		8		wsw.	0	0	sm'h	wsw.	cloudy.
S. Ismir, N. 17° 06′ E. 115° 35′†	29.97	761.2				ene.			1		5		ene.	0	0	sm'h		fine.
Schr. Jennie N. Huddell, Point Judith, R. I†	29.86	758.4	68	20.0	94	nnw.			2		0			0	0			clear.
Schr. John L. Thomas, N. 22° 20′, W. 73° 45′*†	30.09	764.3				se.			3		2		se.	0	0	sm'h		fair.
Bg. John Wesley, Guantanamo, Cuba, W. I†	29.85	758.2				nnw.			1		1			0	0			clear.
Bk. Joseph A. Ropes, S. 26° 40′, E. 49° 33′*†	30.43	772.9	66	18.9	84	e.			6		9		e.	0	0	r'gh	e.	cloudy.
Bkt. Josephine, Havana, Cuba, W. I.†	29.98	761.5	82	27.8	75	sse.			1		0			0	0			clear.
Bkt. Kryolith, N. 38° 54′ W. 73° 32′*†	29.94	760.5				n.			4				nne.	0	0	long	se.	clear.
Light House Tender, Laurel, Key West, Florida†	30.04	763.0	83	28.3		ese.			2		7		ese.	0	0			fair.
S. S. Madrid, N. 47° 17′, W. 40° 49*†	30.18	766.6	70	21.1		s.			5		1		s.	0	0	mod.	ssw.	clear.
Schr. Maggie Abbott, N. 19° 26′, W. 72° 43′†	29.99	761.7									2			0	0			
S. S. Malabar, N. 38° 36′, W. 166° 32′†	30.32	770.1				se.			4		5		se.	0	0	mod.	se.	
S. Minnie N. Gerow, N. 37° 55′, W. 0° 20′.†*	30.00	762.0				e.			2		2		e.			sm'h	ne.	fine.
S. M. P. Grace, S. 1° 41′, W. 114° 40′*	29.98	761.5	71	21.7		se.			2				se.	0	0	sm'h	se.	
Bk. National Eagle, Antwerp, Belgium†	29.66	753.4				ssw.			6		8		sw.	0	0	mod		cloudy.
S. S. Nebo, N. 36° 52′, W. 49° 25′*†	29.90	759.4				w.			2		7		wsw.	6 h'r	6 h'r	cross	wsw.	clear.
Schr. Ocean Traveller, N. 24° 34′, W 65° 37′†	30.05	763.3				ese.			3		2		se.			sm'h		fair.
S. Oracle, N. 31° 46′, W. 45° 45′*	30.11	764.8	82	27.8	91	s.			3		2 k					mod.	se.	clear.
S. Orealla, N. 6° 21′, W. 21° 40′*	29.84	757.9				sw.			3		10		sw.	9 h'r	9 h'r	mod.	sw.	cloudy.
S. St. Francis, N. 20° 15′, W. 35° 31′†	29.91	759.7	77	25.0		ene.			5		4		ene.	0.03	1.0	long	ene.	squally.
Schr. S. B. Hubbard, Gardiner, Me†	29 81	757.2	65	18.3		nnw.			3		5		nw.	light	light			fine.
Bk. Sunbeam, N. 37° 43′, W. 16° 56′†	30.32	770.1	70	21.1	79	n.			3		8		n.	0	0	r'gh	ne.	cloudy.
S. S. Sunbeam, N. 51° 58′, E. 3° 55′	29.62	752.3	60	15.6	70	sw.			6		9		sw.			4	ssw.	d clouds.
S. Sovereign of the Sea, S. 57° 20′, W. 71° 51′*†	29.76	755.9	37	2.8	100	sw.			4		10		sw.	1 h'r	1 h'r	r'gh	wsw.	cloudy.
U. S. F. C. S. S. FishHawk, Wood's Hole, Mass†	30.13	765.3	66	18.9	83	n.			4		1		n.	0	0			clear.
Schr. Victor Ping, N. 13° 27′, W. 72° 00′*†	30.00	762.0				e.			6		6		e.			rg'h	e.	cloudy
Schr. Viola Reppard, Savannah, Ga†	30.02	762.5	82	27.8		sw.			1		1		sw.	0	0			
Bkt. Wandering Jew, Boston, Mass*†	29.83	757.7	69	20.6		nne.			4		4		nne.	0	0			clear.
Bg. Wauburn, N. 39° 40′, W. 76° 50′*†	30.10	764.5				w.			2		1		nw.			mod.	e.	
Bk. Warden Law N. 39° 38′, W. 19° 00′*	30.28	769.1				wnw.			4				nnw.	0	0	sm'h	n.	fair.
S. Wm. Woodbury, N. 59° 36′ W. 12° 45′*	29.50	749.3	55	12.8	100	sw.			6		4		nw.			high	nnw.	cloudy.

International Chart I. August 25, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 26, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.01	762.3	81.0	27.2	81	s.			1		2			0	0	fair	Bouvier.
Algiers			29.99	761.7	85.3	29.6	38	nw.			3		0			0	0	clear	Thève.
La Galle			29.96	760.9	85.6	29.8	66	ese.			5		4			0.157	4.0	cloudy	Fonfrède.
Tunis			29.93	760.3															Jacques.
Saida			30.06	763.5															Perès.
Tebessa			30.04	763.0	87.8	31.0	32	w.			3		1			0	0	very fair	Rigaud.
Geriville					94.6	34.8	12	wnw.			1		3			0	0	pretty fair	Lonchamp.
Laghouat			30.08	764.0	100.4	38.0	31	sw.			5		0			0	0	clear	Abraham.
Biskra			30.06	763.5	99.7	37.6	27	se.			6		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	30.13	765.3	30.22	767.6	51.7	10.9	93	sse.	3	1.3			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.21	742.0	29.73	755.2	77.0	25.0	60	se.			5		5			0.583	14.8		Prof. Ivan Stozir.
Cracow, I. R Observatory	28 93	734.8	29.67	753.5	70.5	21.4	77	e.	7.4	3.3			4			0.087	2.2		Dr. Wierzbiski.
Eperies	28.90	734.1	29.74	755.3	76.1	24.5	70	calm			0	0	7 s		n.	0.295	7.5		Julius Mikolik.
Gratz	28.52	724.4	29.72	754.9	69.1	20.6	79	se.			2		3			0.406	10.3		Andreas Rospini.
Hermannstadt	28.42	721.8	29.74	755.4	86.2	30.2	41	sse.			4		0			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.46	722.8	29.75	755.7	65.8	18.8	67	calm			0		10			0.031	0.8	gloomy	The Staff.
Lemberg	28.87	733.3	29.82	757.3	71.8	22.1	72	se.			3		5			0	0		Dr. T. Staneckl.
Pola	29.72	754.8	29.82	757.5	78.4	25.8	52	sw.			1		6			0.394	10.0		I. R. Hydrographic Office.
Szathmar	29.10	739.0	29.53	750.1	86.0	30.0	49	s.			1		2			0	0		Joseph Midlinszay, S. J.
Szegedin	29.48	748.7	29.74	755.4	76.6	24.8	80	s.			1		4			0	0		Karl Stancel.
Trieste	29.74	755.3	29.84	757.9	75.2	24.0	54	w.			1		6			1.551	39.4		Royal Academy.
Vienna	29.06	738.0	29.74	755.5	69.8	21.0	60	nw.			2		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.42	747.3	29.51	749.5	59.2	15.1	64	nw.	6	2.7			7			0.120	3.0	d. clouds	W. Boswell
Armagh, Observatory	29.40	748.3	29.69	754.1	55.4	13.0	90	nw.	7	3.1			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.61	752.1	57.2	14.0	85	w.	30	13.4			9					overcast	John Hartnup.
Bolton, Sharples	29.05	737.9	29.58	751.3	56.1	13.4	80	wnw.	6	2.7			9					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.14	740.1	29.54	750.3	61.6	16.4	62	nw.			2		7			0.05	1.3	d. clouds	McLandsborough & Preston
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	85.0	29.4	64	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H.C.
Cardington			29.55	750.6	64.0	17.8	67	n.			2.0		3					d. clouds	John McLaren.
Chatham, School M. E.	29.45	748.0	29.58	751.3	62.8	17.1	63	nw.			1		8					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.57	751 1	29.80	756.9	60.0	15.6	73	wnw.			4		6					d. clouds	The Staff.
Fort Napier, Natal	27.80	707.6	30.08	764.0	79.4	26.3	23	nw.			2		0					blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.73	755.1	29.99	761.0	83.0	28.3	78	w.			4		3						Sergt. John Robinson.
Gibraltar, Mediterranean	29.98	761.5	30.05	763.3	80.0	26.7	80	w.			2		0					blue sky	Corpl. F. Norris, A. H.C
Glasgow, Observatory	29.34	745.2	29.54	750.3	62.5	16.9	50	nnw.			5	e	5 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.42	747.3	29.59	751.6	61.9	16.6	64	wnw.			4		7					d. clouds	The Staff.
Guernsey	29.48	748.8	29.77	756.1	60.5	15.8	79	nw.			3		0					d clouds	A. Collenette, F. M. S.
Kew, Observatory	29.58	751.3	29.62	752 3	62.2	16.8	57	wnw.	17	7.6			7					d. clouds	The Staff.
Leicester, Museum	29.32	744.7	29.57	751.1	59.0	15.0	73	nw.			2		10					raining	J. C. Smith.
Malta, Mediterranean	29.86	758.4	29.94	760.5	83.6	28.7	87	sw.			1		2					blue sky	W. D. Ballau.
Nassau, Bahamas	30.06	763.5	30.10	764.5	84.5	29.2	74	se.			2		8			blank	blank	overcast	C. S. Duncombe.
Oscott, St. Mary's College																			Warren Middleton.
Oxford, Radcliffe Obs'y	29.40	749.7	29.63	752 6	60.0	16.1	66	w.			5		9					squally	The Staff.
Plymouth	29.67	753.6	29.74	755.4	63.0	17.2	78	nw.			2		8					showery	John Merrifield.
Sandwick Manse, Orkneys			29.47	748.5	55.2	12.9	96						10					raining	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.75	755.6	29.81	757.2	87.2	30.7	49	ne.			2		0					misty	W. H. Lyne.
Sheffield	29.36	745.7	29.03	752 6	64.0	18.3	67	sw.			1		5			0.01	0.3	d. clouds	W. F. Cooper.
Silloth Rectory	29.53	750.0	29.56	750.8	60.8	16.0	76	w.			1		10			0.015	0.4	raining	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.60	751.8	57.9	14.4	69	wnw.	15	6.7			10					overcast	I. New.
Strathfeld Turgiss					59.9	15.5	90	w.			3		10					showery	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.83	757.7	29.84	757.9	65	18.3	73	nw.			7		8					gloomy	W. Newcombe.
Valencia, Observatory	29.89	759.2	29.91	759.7	58.0	14.8	83	nw.	20	8.9			8			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	29.99	761.7	30.03	762.7	53	11.7	83	n.	16	7.2			10 n		ne.	0.205	5.2	sprinkling	H. J. Cundall, C. E.
Chatham, N. B*	30.10	764.5	30.10	766.1	55	12.8	86	n.	14	6.3			10 s		n.	0.19	4.8	cloudy	G. A. Blair.
Father Point, Quebec*	30.16	766.1	30.18	766.6	53	11.7	93	calm	0	0		5 k	5 k	calm	n.	0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.09	738.9	29.90	759.4	58	14.4	93	se.	6	2.7		2 ck	0	se.		0	0	fair	James Stewart.
Halifax, N. S*	29.86	758.4	29.99	761.7	53	11.7	96	n.	10	4.5			10 n		ne.	0.100	2 5	light rain	A. Allison.
Kingston, Ontario*	29.71	754 6	30.04	763.0	64	17.8	87	e.	8	3.6		5 c	0	ne.		0	0	fair	A. P. Knight, M. A.
Montreal, Quebec*	29.91	759.7	30.11	764.8	62	16.7	75	se.	7	3.1		5 k	0	nw.		0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.30	744.2	29.97	761.2	66	18.9	93	se.	6	2.7		2 k	2 ks	se.	se.	0	0	fair	Rev. R. Mosley.
Port Dover, Ontario	29.30	744.2	29.96	761.0	66	18.9	100	ne.	4	1.8			1c n			0.05	1.3	light rain	H. Morgan.
Port Stanley, Ontario	29.32	744.7	29.95	760.7	65	18.3	93	e.	1	0.4			10 k		s.	0.50	12.7	cloudy	M. Payne.
Quebec, Quebec*	29.85	758.2	30.17	766.3	57	13.9	93	e.			1	2 k	2 s	e.		0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.60	751.8	30.04	763 0	65	18.3	78	se.	8	3.6			8 ks		w.	0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.24	742.7	29.93	760.2	65	18.3	93	se.	5	2.2		8 k	0			0	0	cloudy	
St. Andrews, N. B	30.04	763.0	30.10	764.5	56	13.3	78	ne.	5	2.2			10 n			0	0	cloudy	
Sydney, C. B*	29.88	758.9	29.94	760.5	53	11.7	80	ne.	15	6.7			1c n		ne.	0	0	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.62	752.3	29.98	761.5	68	20.0	93	ne.	10	4.5		8 ck	2 n	w.	e.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	29.98	761.5	30.04	763.0	57	13.9	80	ne.	2	0.9			10 k		n.	0	0	cloudy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.60	726.4	29.93	760.2	63.0	17.2	94	s.			3-4	8 cs	0	sw.		0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.80	756.9	30.05	763.3	55	12.8	87	w.	2	0.9		5 k	5 s					showery	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.96	761.0	29.98	761.5	90	32.2	30	nw.	9.7	4.3		7 cs	0			0	0	hazy	C. Hansen.
Cape Town, C. G. H. Obs'y	30.04	763.0	30.07	763.8	64.0	17.8	87	nw.	14	6.3		8	8			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent	From.	Miles p. hr.	Mtrs. p sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.80	756.8	29.82	757.4	78.1	25.6	92	ese.	2.9	1.3		6 c	0			0	0		M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.45	748.1	29.50	749.3	60.4	15.8	77	sse.	25	11			10						Oversergent Fischer.
Fanöe	29.28	743.7	29.30	744.2	55.6	13.1	85	sw.			4		8						Overloerer Lauridsen
Godthaab, Greenland	30.06	763.6	30.11	764.7	41.0	5.0	94	ne.			3		10			0.012	0.3	foggy	S. Kleinschmidt.
Ivigtut	30.03	762.7	30.05	763.2	41.2	5.1		nw.			1		10					foggy	
Stykkisholm, Iceland	29.81	757.1	29.85	758.2	44.1	6.7	83	e.			4		8						A. O. Thorlacius.
Thorshavn	29.45	748.0	29.48	748.9	54.3	12.4	79	n.	9	4			6						Overloerer Bergh.
Vestervig	29.24	742.8	29.34	745.1	58.1	14.5	93	se.			2		10					raining	Loerarer Oesterbol.
French.																			
Agen, Normal School	29.31	744.5	29.96	760.9	64.0	17.8	78	wnw.			4		kn			0	0		M. Labroue, Director.
Alençon, Normal School	29.15	740.5	29.74	755.5	63.7	17.6	86	sw.			1		10 n	s.	s.	0.622	15.8	thund'r st'm	M. Nicot, Director.
Arras, Engineer School	29.23	742.4	29.48	748.7	60.1	15.6	98	w.			4		k			0.417	10.6		M. Fénéon, Command't.
Avignon, Normal School	29.78	756.5	29.86	758.5	75.2	24	53	n.			1		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.20	741.6	29.74	755.3	63.9	17.7	63	nw.			2		8		nw.	0.394	10.0	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.41	747.1	29.68	753.8	60.3	15.7	81	w.			2		5		w.	0.886	22.5	cloudy	M. Frère Eugène Maris.
Besançon, Normal School	28.85	732.9	29.72	754.8	65.5	18.6	79	s.			1		2		nw.	0	0	slightly cl'dy	M. Gobin, Director.
Bordeaux, Observatory	29.68	753.8	29.93	760.3	64.0	17.8	65	wnw.			1		8		nw.	0.157	4.0	very cloudy.	M. Rayet, Director.
Bourges, Normal School	29.24	742.7	29.78	756.5	63.3	17.4	61	w.			4				w.	0.59	15.		M. Malet, Director.
Brest, Naval Observatory	29.67	753.5	29.91	759.7	64.4	18.0	74	w.			2		7		w.	0.105	4.2		M. de Kermaree, Dir.
Caen, Normal School	29.49	749.0	29.57	751.0	54.0	12.2	86	nw.			2		5		nw.	0.287	7.3	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.48	748.7	29.79	756.6	63.9	17.7	74	wsw.			4		2	wsw.	w.	0.197	5.0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.10	739.0	29.60	751.7	62.2	16.8	73	w.			6		8			0.47	12.	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.50	723.8	29.81	757.2	66.2	19.0	47	sw.			2		8			0.138	3.5	¾ covered	M. Alluard, Director.
Cluny, Normal School	28.99	736.4	29.81	757.2	64.4	18	59	ssw.			3		9		sw.	0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.13	714.6	29.70	754.4	62.2	16.8	81	sw.			4		kn	sw.	sw.	0.240	6.1		Dr. Coulet, Director.
Gap, Normal School	27.30	693.3	29.78	756.4	62.2	16.8	53	n.			2	0	2 kn		n.	0	0		M. Jeangirard, Director.
Grénasque, du Rhone	28.73	729.8	29.82	757.4	71.4	21.9	37	w.			3		5		sw.	0.020	0.5		M. Kina, Director.
Grenoble, Normal School	29.00	738.2	29.82	757.4	63.0	17.2	65	se.			2		ckn	sw.	n.	0.091	2.3		M. Ablard, Director.
Lamballe, Normal School					63.7	17.6	65	nw.			2		5		nw.	0.102	2.6	cloudy	M. Olhitrault, Director.
Lescar, Normal School	29.44	747.7	29.99	761.8	65.8	18.8	77	w			5		10			0.299	7.6	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.79	756.6	29.89	759.2	63.0	17.2	76	nw.			2		8		nw.	0.039	1.0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.79	731.2	29.82	757.3	68.0	20.0	50	sse.			2	0	8 kn		w.	0.024	0.6	very cloudy.	M. André, Director.
Mans, Normal School	29.46	748.2	29.76	755.9	61.2	16.2	80	w.			4		8		nw.	0.555	14.1	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.56	750.8	29.82	757.5	75.2	24.0	36	nw.			3		7		wnw.	0.010	0.4		M. Stephan, Director.
Montlouis																			M. Cave, for Dr. Fines.
Montpellier, Normal School	29.78	756.3	29.90	759.4	68.0	20	64	nw.			2		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	28.95	735.3	29.71	754.7	61.5	16.4	58	sw.			2		5 k			0.055	1.4	cloudy	M. Hasse, Director
Nantes, Observatory	29.72	755.0	29.89	759.1	60.4	15.8	80	ssw.			1–2		10 n		wnw.	0.03	16.	rainy	M. Larocque, Director.
Perpignan, Observatory	29.79	756.6	29.89	759.3	67.8	19.9	56	n.	9.4	4.2			10		sw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit.	21.20	538.4			29.8	— 1.2		w.			2		10		w.	0.110	2.8	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.85	732.9	29.90	759.4	62.6	17	70	s.			1		5			0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.00	635.1			44.2	6.8	100	w.			4		10			0.213	5.4	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	29.87	758.8	29.91	759.6	66.2	19.0	100	w.			2		8		w.	0.79	20.	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.65	753.2	29.87	758.6	62.6	17	76	w.			2		5	e.	e.	1.008	25.6	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.80	707.6	29.97	761.1	59.9	15.5	75	w.			1		10		sw.	0.413	10.5	covered	M. Seger, Director.
Rouen, Normal School	29.68	753.9	29.73	755.1	65.1	18.4	63	w.			2		5	nw.		0.587	14.9	cloudy	M. Brotier.
Saint Maur, Observatory	29.52	749.9	29.69	754.1	59.9	15.5	77	sw.			1		10		w.	0.200	6.6		M. Renou, Director.
Toulouse, Observatory	29.26	743.3	29.99	761.7	67.6	19.8	65	w			4		8	w.		1.291	32.8	very cloudy	M. Baillaud, Director.
Tours	29.61	752.1	29.79	756.6	64.8	18.2	63	sw.			2		10		sw.	0.204	6.7	showery	M. de Tastes.
Versailles, Observatory	29.22	742.2	29.71	754.7	55.4	13.0	98	w.			2					0.287	7.3		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.41	747.1	29.71	754.5	55.0	12.8	95	wsw.			2		10		wnw.	0.453	11.5	raining	M. Marié Davy, Director
German.																			
Ansbach	28.30	718.8	29.70	754.4	63.0	17.2	55	sw.			6		8	sw.		0.063	1.6		Prof. Jnedt.
Bamberg	28.86	733.1	29.71	754.5	63.7	17.6	70	wsw.			2	0	9 n		sw.	0.217	5.5		Prof. Dr. Hoh.
Berlin	29.41	747.1	29.59	751.5	68.5	20.3	54	w.			2		8			0.031	0.8		Prof. Dr. Arndt.
Breslau	29.21	742.0	29.74	755.3	70.0	21.1	58	ssw.			2		2			0	0		Royal University Obs'y.
Carlsruhe	29.23	742.5	29.05	753.1	68.4	20.2	54	sw.			9		9	sw.		0.105	4.2		Albert Senz.
Cassel	28.81	731.8	29.52	749.9	59.4	15.2	85	s.			5		10	s.		0.349	8.8		Dr. H. Mohl.
Frankfort-on-the-Main	29.26	743.2	29.61	752.0	63.3	17.4	79	ssw.			2		7			0.105	4.2		Physical Society.
Friedrichshafen	28.35	720.0	29.79	756.6	61.2	16.2	74	w.			4		10	w.		0.110	2.8		Wilhelm, Chief Tel.
Hamburg	29.38	746.3	29.47	748.6	61.7	16.5	75	ssw.			3		8			0.154	3.9	thund'r st'm	E. Preller.
Kiel	29.43	747.4	29.44	747.8	61.2	16.2	77	ssw.			4		6			0.250	6.5		Prof. Dr. G. Karsten
Leipsic, Astron'l Obs'y	29.23	742.4	29.63	752.7	68.7	20.4	50	sw.			5		9	ssw.		0.055	1.4		H. Leppig, Asst.
Magdeburg	29.37	745.9	29.55	750.5	68.5	20.3	62	s.			3	0	7 ks;k		sw.	0.008	0.2		Dr. Assmann.
Memel	29.81	757.1	29.85	758.3	69.5	20.9	52	ssw.			3	c	6 k						Issermann.
Munich	28.00	711.3	29.85	758.3	58.1	14.5	62	nw.			2		10	sw.		0.004	0.1	light rain	Dr. C. Lang.
Neufahrwasser	29.71	754.5	29.72	754.9	70.5	21.4	48	se.			3		10			0	0		A. Lothes.
Neustadt, Palatinate	29.11	739.4	29.63	752.6	63.1	17.3	70	sw.			3		9	wsw.		0.122	3.1		Dicknether.
Stuttgart	28.77	730.8	29.63	752.7	66.2	19.0	47	w.			5		8	w		0.008	0.2		Prof. Dr. Schoder.
Wustrow	29.51	749.6	29.54	750.3	63.0	17.2	77	s.			4		10 k		s.	0.193	4.9		Profs. Brandes & Reimer
Greek.																			
Athens	29.48	748.8	29.84	758.0	88.9	31.6		sw.			1.0		0			0	0		Schmidt & Wourlisoh
Indian.																			
Kurrachee	29.67	753.5	29.72	754.8	80.6	27.0	81	wsw.	20.0	8.9			10			0	0	overcast	
Deesa	29.14	740.3	29.61	752.1	85.8	29.9	59	sw.	14.0	6.3			6	wsw.	wsw.	0	0	d. clouds	
Bombay	29.73	755.0	29.76	756.0	79.3	26.3	85	w.	12.0	5.4			10	wnw.		0.07	1.8	overcast	
Poona, Yarrowda	27.91	708.9	29.78	756.4	73.3	22.9	71	wsw.	16.0	7.2			10		w.	0	0	overcast	
Trichinopoly	29.49	749.0	29.77	756.1	84.1	28.9	65	nw.					10			0	0	overcast	
Bellary	28.25	717.6	29.70	754.5	83.8	28.8	55	w.	6.5	2.9			10	sw.		0	0	gloomy	
Belgaum	27.24	692.0	29.80	757.0	70.0	21.1	91	w.	7.0	3.1			10		w.	0	0	drizzling	
Lahore	28.90	734.1	29.64	752.8	82.0	27.8	89	calm	0	0			10			1.61	40.9	overcast	
Roorkee	28.74	730.1	29.63	752.5	85.0	29.4	79	sw.	1.4	0.6			7			0.21	5.3		
Agra	29.03	737.4	29.59	751.6	83.7	28.7	87	ne.	2.0	0.9			4		e.	1.25	31.8	d. clouds	
Nagpur	28.60	726.4	29.62	752.4	80.0	30.0	57	w.	6.0	2.7			9		w.	0.03	0.8	gloomy	
Jubbulpore	28.30	718.7	29.66	753.3	73.8	23.2	94	n.	2.9	1.3			10		n.	0.12	3.0	drizzling	
Lucknow	29.24	742.6	29.60	751.9	88.6	31.4	61	ene	3.3	1.5			0			0.03	0.8	blue sky	
Allahabad	29.28	743.6	29.58	751.4	83.3	28.5	84	ene.	2.0	0.9			9			0.22	5.6	overcast	
Patna	29.49	749.0	29.57	753.0	86.4	30.2	64	e.	8.5	3.8			5	e.	e.	0	0	d. clouds	
Hazaribagh	27.66	702.5	29.65	753.0	80.3	29.8	71	sse.	10.9	4.9			3			0.10	2.5	drizzling	
Cuttack	29.61	752.1	29.69	754.2	82.6	28.1	79	calm	0	0			7			0.008	2.0	d. clouds	
Calcutta, Alipore	29.67	753.6	29.69	754.2	79.5	26.4	99	ssw.	2.0	0.9			8		se.	0.24	6.1	d. clouds	
Dhubri	29.59	751.6	29.71	754.6	84.6	29.2	75	calm	2.0	0.9			0			0	0	blue sky	
Chittagong	29.66	753.4	29.75	755.7	81.7	27.6	87	sw.	2.8	1.2			8			0	0	d. clouds	
Sibsagar	29.39	740.4	29.72	754.8	84.0	28.9	83	sw.	2.0	0.9			10	w.	w.	1.30	33.0	d. clouds	
Jeypore	28.21	716.4	29.65	753.1	77.4	25.2	92	ne.	2.3	1.0			10		ne.	0.72	18.3	overcast	
Zanzibar, Africa	30.03	762.7			84.7	29.3	51	s.	7.9	3.6			3		se.	0	0	d. clouds	
Italian.																			
Udine	29.45	747.9	29.84	758.0	75.0	23.9	57	s.	0.7	0.3			8			0.488	12.4		Prof. Giovanni Clodig.
Milan	29.27	743.5	29.77	756.1	73.8	23.2	52	ese.	5.6	2.5			9	sw.		0.500	12.7		Prof. Schiaparelli.
Padua	29.69	754.2	29.80	756.9	76.3	24.6	37	nnw.	3.1	1.4			6	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	28.85	732.8	29.72	755.0	69.1	20.6	71	nw.	3.8	1.7			8	nw.		0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Genoa	29.65	753.1	29.84	757.8	68.0	20.0	81	s.	13.7	6.1			10	s.		0.010	0.4		Prof. G. M. Garibaldi
Mondovi	27.88	708.1	29.71	754.7	68.9	20.5	62	nw.			6		3	s.		0	0		Prof. D. C. Bruno
Pesaro	29.74	755.5	29.79	756.7	83.5	28.6	42	ssw.	9.4	4.2			8	sw.		0	0		Prof. Luigi Guidi.
Florence	29.60	751.8	29.84	758.0	78.3	25.7	49	w.			2		8	s.		0.047	1.2		Prof. Costantino Pitter.
Leghorn	29.74	755.3	29.82	757.4	70.0	21.1	74	wnw.	8.7	3.9			10	w.		0.197	5.0		Prof. P. Monte
Rome	29.71	754.5	29.87	758.8	84.9	29.4	43	wsw.	8.1	3.6			2			0	0		Prof. P. Tachini.
Lecce	29.62	752.4	29.86	758.5	83.3	28.5	50	wsw.	9.4	4.2			0			0	0		Prof. C. de Giorgi.
Cosenza	29.02	737.0	29.87	758.6	86.0	30.0	73	ssw.	3.8	1.7			0			0	0		Prof. D. Conti.
Cagliari	29.65	753.1	29.84	757.9	81.1	27.3	59	se.			2		0			0	0		Prof. A. Pacinotti.
Palermo	29.67	753.5	29.91	759.6	81.3	27.4	66	ne.	6.3	2.8			0			0	0		Prof. G. Cacciatore.
Syracuse	29.84	757.8	29.88	758.9	81.7	27.6	76	nne.	16.1	7.2			3	wsw.		0	0		Prof. Vincenzo Gullian
Sub-series.																			
Naples, S. R	29.39	746.4	29.89	759.1	80.6	27.0	68	w.	3.1	1.4			1			0	0		Prof. T. Brioschi.
Stelvio	22.09	561.0			44.1	6.7	61	w.			4		10			0.736	18.7	misty	Prof. P. F. Denza.
Valdobbia	22.12	561.8			42.4	5.8	74	n.			2		10			0.083	2.1	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.81	757.2	29.84	757.9	66.5	19.2	85	s.	3.9	1.7			10 ck		s.	0	0	overcast	K. Ogawa.
Hakodate	29.78	756.4	29.79	756.6	63.2	17.3	90	nne.	1.2	0.5			6			0	0	fair	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.70	754.4	29.87	758.7	67.2	19.6	79	nnw.	4.0	1.8		1ck;cs	2 ck			0	0	clear	M. Fojima.
Nagasaki, I. M. Obs'y	29.67	753.6	29.87	758.6	73.8	23.2	88	sw.	0.6	0.3		1 c;cs	0	nw.		0	0	clear	
Nemuro	29.92	759.9	29.99	761.7	67.5	19.7	84	calm	0	0		0	0			0.770	19.6	clear	
Niigata	29.85	758.2	29.88	758.9	68.0	20.0	82	calm	0	0		8 ck	2 cks			0	0	light fog	M. Morita.
Nobiru	29.82	757.5	29.84	757.9	66.7	19.3	83	nnw.	6.2	2.8		1ck	0			0	0	fair	H. Midzushina.
Osaka	29.81	757.2	29.82	757.4	72.0	22.2	81	ne.	2.9	1.3		1 c	4 cs			0	0	fair	
Supporo					67.0	19.4	87	s.	7.2	3.2			4			0	0		
Tokei Obs'y, Yeddo	29.80	756.9	29.87	758.7	70.6	21.4	82	ssw.	4.4	2.0		3ck;cs	1 ck	w.		0	0	fair	The Staff.
Wakayama	29.82	757.4	29.87	758.7	69.6	20.9	84	calm	0	0		9	0			0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	30.05	763.3	30.24	768.1	71.2	21.8	67	ese.	25.0	11.2		0	6 ks;kn		ese.	0	0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	602.0	29.92	760.0	57.9	14.4	96	calm	0	0		0	0			0.394	10.0	foggy	Prof. Vicente Fernandez.
Leon,†	24.36	618.7	30.03	762.7	59.0	15.0	93	e.			1	6 c	1 k	e.		0.783	19.9	cloudy	Prof. M. Leal.
Mazatlan	29.69	754.0	29.94	760.5	79.5	26.4	87	s.	1.6	0.8		10 cn	0	ne.		0	0	covered	F. Quijano, C. E.
Mexico, Central Obs'y	23.13	587.5	30.17	766.3	52.0	11.1	83	calm			0	0	1 k			0	0	fine	The Staff.
Morelia	24.22	615.2	30.23	767.8	59.0	15.0	62	ne.			2	3	0			inap.	inap.	clear	M. Tena, M. D
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.97	608.8	29.95	760.6	60.3	15.7	96	calm			0	0	9 ks		ese.	0.930	23.7	very cloudy	M. Y. de Leon, M. E
Puebla, Catholic Institute	23.41	594.8	30.21	767.3	50.9	10.5	87	calm			0	0	8			0.236	6.0	cloudy	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	22.60	574.1	30.21	767.3	53.3†	12.2†	77	e.	6.9	3.0		0	0			0	0	fine	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	29.49	749.1	29.49	749.1	60.8	16.0		wsw.			5					0.461	11.7		
Groningen	29.35	745.4	29.40	746.8	60.4	15.8		wsw.			3					0.421	10.7		
Helder	29.39	746.5	29.39	746.5	61.2	16.2		sw.			4					0.201	5.1		
Hellevoetsluis	29.46	748.2	29.46	748.2	61.0	16.1	81	wsw.			3					0.280	7.1		
Utrecht	29.41	746.9	29.45	748.1	63.9	17.7	73	sw.			3		8			0.067	1.7	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.37	746.1	29.44	747.7	62.2	16.8	68	ssw.	7	3			5			2.118	53.8		
Brono	29.41	746.9	29.45	747.9	61.2	16.2	75	ssw.	18	8			9			0.461	11.7	raining	
Christiania	29.37	745.9	29.51	749.5	63.9	17.7	64	se.	4	2			10			0	0		
Gjæsvær	29.62	752.4	29.65	753.0	61.5	16.4		e.			4		2						
Lodingen	29.37	746.1	29.42	747.3	62.2	16.8	62	e.			2		8			0.087	2.2		
PORTUGUESE.																			
Angra, Azores					72.7	22.6	71	se.	4.3	1.9			3			0	0		Dr. J. A. Sampaio
Campo Major	29.08	738.6	30.05	763.3	74.5	23.6	33	n.	12.5	5.6			1			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.19	766.9	30.28	769.1	73.2	22.9	60	sw.	4.9	2.2			1			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.86	758.4	30.21	767.4	69.1	20.6	45	n.	26.6	11.9			2			0	0		The Staff.
Ponta Delgada, Azores	30.38	771.7	30.44	773.2	78.1	25.6	60	se.	4.3	1.9			5			0	0		
Saint Paul de Lotando	29.84	757.9	30.04	763.1	67.8	19.9	90	se.			1		10			0	0		
Serra da Estrella	25.38	644.7	30.13	765.2	48.7	9.3	70	nw.	31.8	14.2			8	ne.		1.063	27.0		
RUSSIAN.																			
Akmollinski	28.71	729.2	29.71	754.7	84.7	29.3	32	calm	0	0		7 ck	0			0	0		Major K. Lasarew.
Archangel	29.70	754.4	29.72	754.9	63.1	17.3	71	n.	9	4			10			0.047	1.2		Capt. Sseliwerstow.
Astrakhan	30.00	761.9	29.91	759.8	82.0	27.8	37	n.	13	6		0	0			0	0		Capt. Wisganow.
Barnaul	29.31	744.5	29.78	759.5	75.4	24.1	44	sw.	9	4			8			0.181	4.6	light clouds	Meteorological Obs'y.
Dorpat	29.61	752 0	29.84	757.9	69.1	20.6	53	sw.	11	5		0	4 k			0	0		Observatory.
Ekaterinburg	28.89	733.8	29.80	756.9	77.5	25.3	38	w.	7	3		9 ck	0			0	0	light clouds	Meteorological Obs'y.
Irkutsk																			
Kasan	29.52	749.7	29.76	756.0	84.6	29.2	43	sw.	7	3		c	7 k			0	0		Observatory.
Kertch	29.90	759.4	29.92	759.9	77.9	25.5	72	ne.	9	4		0	0			0	0		Lagorio & Sastyrex.
Kieff	29.30	744.2	29.91	759.8	67.5	19.7	75	nne.	7	3		0	2 k;ks						Observatory.
Lugan	29.71	754.7	29.91	759.0	84.0	28.9	49	wsw.	4	2		0	0			0	0		Meteorological Obs'y.
Moscow	29.37	746.0	29.83	757.7	63.5	17.5	75	se.	13	6		0	8 ks						Meteorological Obs'y.
Nikolaiev	29.90	759.4	29.97	761.2	81.9	27.7	57	calm	0	0		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.67	753.5	29.81	757.1	74.7	23.7	72	sw.	4	2		0	2 k			0	0		Physical Observatory.
St. Petersburg	29.77	756.2	29.79	756.6	61.0	16.1	78	nnw.	11	5			10 n			inap.	inap.		Central Physical Obs'y.
Semipalatinsk	29.23	742.4	29.84	757.8	86.7	30.4	35	wnw.	4	2			1			0	0		Major Lasarew
Tashkend, Laboratory	28.24	717.4	29.71	754.6	84.7	29.3	55	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.58	725.9	29.91	759.7	90.9	32.7	43	s.	7	3		0	2 k			0	0		Physical Observatory.
Vladivostock	29.72	755.0	29.79	756.7	67.3	19.6	73	n.	9	4		0	4 k						
Warsaw	29.30	745.8	29.77	756.2	66.2	19.0	74	se.	16	7			10 k;ks						Astronomical Obs'y.
Wilna	29.53	750.0	29.93	760.3	66.6	19.2	67	s.	4	2			3			0.122	3.1		Berg, Assistant.
Yeniseisk	29.45	748.0	29.73	755.1	55.9	13.3	86	s.	16	7			10			0.109	4.3	raining	M. O. Marks.
SCOTTISH.																			
Monach Lt			29.64	752.8	54	12.2	93	nnw.			6		10	nnw.		0.1	3.	showery	J. Youngclause.
North Unst			29.30	744.2				w.			6	2	7	nw.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.75	755.6	29.85	758.2	75.9	24.4	75	se.	5.4	2.4			9			0	0	almost cov'd	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.10	764.5	30.16	766.0	65.7	18.7	75	nw.	3.4	1.5		2	7	nw.		0.272	6.9	almost cov'd	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.12	688.9	30.04	763.1	62.2	16.8	57	w.	9.6	4.3		0	8			0	0	misty	Domingo Martin.
Madrid, Royal Obs'y	27.81	706.3	29.96	761.0	73.0	22.8	49	nw.	15.7	7.0		0	1			0	0	clouds	The Staff.
Murcia, Met. Obs'y	29.74	755.3	29.89	759.1	91.6	33.1	38	ne.	1.8	0.8		0	0			0	0	clear	Olayo Diaz, Director
Oviedo	29.26	743.3	30.14	765.6	57.2	14.0	89	e.	2.4	1.1		0	6 n			0.035	0.9		Prof. G. L. Frades.
Santiago, Met. Obs'y	29.27	743.5	30.16	766.1	64.8	18.2	51	nw.	15.4	6.9		0	2			0.075	1.9	almost clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.94	760.6	30.01	762.3	78.1	25.6	86	e.	1.8	0 8		3c;cs;ck	0	nne.		0	0	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.4	29.91	759.8	80.6	27.0	79	nne.	2.2	1.0		2 c	4 ck		e.	0.118	3.0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.00	762.1	30.10	764.5	75.6	24.2	61	w.	12.2	5.5		0	0			0	0		Capt. C. Pujazon R. N.
San Juan de Porto Rico, W.I	29.95	760 8	30.04	763.1	82.0	27.8	81	se.	5.8	2.6		3 c	3 kn	se.	se.	0	0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.80	756.9	29.93	760.2	82.2	27.9	80	wnw.	0	0		1 c	1 k	ese		0	0	clear	José L. Yrastorza.
SWEDISH																			
Haparanda	29.51	749.6	29.55	750.6	55.8	13.2	94	s.			2		10			0	0		
Umea	29.47	748.4	29.52	749.7	68.0	20.0	66	sw			6		5			0.083	2.1		

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
SWEDISH—Continued.																			
Hernosand	29.50	749.4	29.56	750.7	63.3	17.4	68	s.			6		4			0	0		
Stockholm	29.50	749.4	29.68	753.9	66.2	19.0	56	ssw.			4		2			0.004	0.1		
Wisby	29.63	752.5	29.69	754.0	69.4	20.8	51	ssw.			4		5			0	0		
Sub-series.																			
Upsala	29.56	750.7	29.64	752.9	64.4	18.0	66	ssw.	13.9	6.2			6	w.	sw.	0.157	4.0		S. G. Fineman.
SWISS.																			
Geneva	28.47	723.1	29.87	758.8	61.7	16.5	57	ssw.			2		10			0.433	11.0	covered	The Observatory
TURKISH.																			
Constantinople			29.87	758.8	79.9	26.6	59	n.	15	6.5			0			0	0		The Observatory.
Valona			30.01	762.2	84.6	29.2		s.			1		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.81	757.2	87.1	30.6	58	nw.			2	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.02	762.5	30.10	764.5	63.5	17.5	70	n.	2	0.9		2 cs	6 ks		sw.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.32	744.7	29.96	761.0	67	19.4	93	n.	4	1.8		10 cs	0			0	0	cloudy	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.06	636.5	29.78	756.4	62	16.7	75	ne.	2	0.9			10 s			0	0	cloudy	W. C. Barnes.
Assinnaboine, Ft., Montana	26.90	683.2	29.64	752.8	60	15.6	62	sw.	8	3.6		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.85	732.8	30.00	762.0	70.5	21.4	92	se.	8	3.6			10 s			0.85	21.6	cloudy	H. Hall.
Atlantic City, New Jersey	30.02	762.5	30.03	762.7	73	22.8	90	sw.	2	0.9		5 ck	5 s			0	0	cloudy	Jas. M. Watson.
Augusta, Georgia	29.86	758.4	30.04	763.0	76	24.4	79	s.	2	0.9		3 ck	7 s	sw.		0	0	cloudy	John Healy.
Baltimore, Maryland	30.00	762.0	30.05	763.3	72	22.2	82	e.	2	0.9		10 cs	fg.	w.		0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.03	762.7	30.05	763.3	73.0	22.8	90	sw.	5	2.2		9 ck	0	w.		0	0	cloudy	G. A. Hill.
Bennett, Fort, Dakota	28.26	717.8	29.80	756.9	68	20.0	76	se.	3	1.3		2 k	2 s			0	0	fair	A. Pritchard.
Benton, Fort, Montana	26.94	684.3	29.73	755.1	60	15.6	56	sw.	12	5.4		0	3 s			0	0	clear	S. Wheaton.
Behring Island, Behring Sea	30.02	762.5	30.04	763.0	52.5	11.4		se.	2	0.9		2 ck	0	w.		0	0	clear	Dr. L. Steineger.
Bismarck, Dakota	28.01	711.4	29.76	755.9	73	22.8	51	e.	10	4.5		0	hz.			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.07	763.8	30.10	764.5	65	18.3	84	ne.	10	4.5		4 c	0	w.		0	0	fair	J. T. Elker.
Boise City, Idaho	27.15	689.6	29.90	759.4	57	13.9	60	w.	2	0.9		8 c	0	calm		0	0	fair	B. E. Light.
Boston, Massachusetts	29.97	761.2	30.12	765.0	63.0	17.2	74	ne.	4	1.8		4 cs	hz.			0	0	fair	O. B. Cole.
Brownsville, Texas	29.84	757.9	29.88	758.9	79.7	26.5	88	se.	5	2.2		2 c	2 ks		se.	inap.	inap.	fair	M. McCarty.
Buffalo, New York	29.25	742.9	29.98	761.5	69.2	20.7	86	s.	4	1.8			10s;fg		se.	0	0	cloudy	Clarence Weaver.
Buford, Fort, Dakota	27.78	705.6	29.72	754.9	59	15.0	72	e.	7	3.1		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.80	756.9	30.09	764.3	59.0	15.0	84	ne.	2	0.9		8 ck	1 s	w.	ne.	0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.55	750.6	29.94	760.5	71.8	22.1	98	w.	5	2.2			fg.			0.04	1.0	dense fog	W. H. Ray.
Campo, California	27.35	694.7	29.85	758.2	53.5	11.9	74	w.	2	0.9		0	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	30.00	762.0	30.02	762.5	78	25.6	90	sw.	6	2.7			10 s		w.	0	0	threatening.	A. K. Alderson.
Cape May, New Jersey	30.01	762.2	30.04	763.0	72.2	22.3	90	se.	5	2.2		6 cs	fg.			0	0	fair	W. E. Smith.
Cape Mendocino	29.41	747.0			53	11.7	86	n.	24	10.7		0	fg.			0	0	clear	J. R. Williams.
Cedar Keys, Florida	30.03	762.7	30.05	763.3	82	27.8	74	e.	9	4.0		7 ck	2 ks		e.	0	0	cloudy	F. W. Mixer.
Champaign, Illinois	29.11	739.4	29.90	759.4	69.0	20.6	90	s.	1	0.4			10 s		s.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	30.00	762.0	30.05	763.3	80	26.7	82	sw.	5	2.2		5 ck	0	sw.		0	0	fair	J. H. Smith.
Charlotte, N. Carolina	29.15	740.4	29.98	761.5	74.0	23.3	76	sw.	5	2.2		10 cs	0	w.		0	0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.17	740.9	29.98	761.5	71.0	21.7	94	s.	4	1.8			10 ks		s.	1.13	28.7	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.09	611.9	29.79	756.7	53.8	12.1	64	w.	6	2.7		0	2 s			0	0	clear	E. McGovern.
Chicago, Illinois	29.25	742.9	29.94	760.5	70.2	21.2	96	ne.	4	1.8			10 n			0.14	3.6	light rain	J. Mitchell.
Chincoteague, Virginia	30.01	762.2	30.03	762.7	77	25.0	91	se.	4	1.8		0	0			0	0	clear	C. F. Dickens.
Cincinnati, Ohio	29.30	744.2	29.94	760.5	73	22.8	90	se.	2	0.9			10 n		se.	0.16	4.1	light rain	J. F. Harrold.
Cleveland, Ohio	29.22	742.2	29.94	760.5	69.8	21.0	90	s.	3	1.3		5 c;k	0	w.		inap.	inap.	fair	J. B. Newlin.
Coleman City, Texas																			L. Dorman.
Columbus, Ohio	29.11	739.4	29.94	760.5	71	21.7	90	se.	2	0.9			10 s			0.03	0.8	cloudy	D. Cuthbertson.
Concho, Texas	28.05	712.5	29.91	759.7	68	20.0	81	calm	0	0		0	5 s		s.	0	0	fair	W. W. McConihe.
Custer, Fort, Montana	26.62	676.1	29.68	753.9	62	16.7	65	s.	6	2.7		0	3 s		calm	0	0	clear	W. B. Lamar.
Davenport, Iowa	29.30	744.2	29.93	760.2	70	21.1	84	nw.	1	0.4		3 cs	0	nw.		0.01	0.2	clear	R. R. Martin.
Davis, Fort, Texas	25.17	639.3	29.82	757.4	59	15.0	90	calm	0	0		0	0			0.70	17.8	clear	J. Williams.
Dayton, Washington T'y	28.31	719.1	30.02	762.5	45.8	7.7	81	sw.	3	1.3		0	0			inap.	inap.	clear	H. Clifford.
Deadwood, Dakota	25.30	642.6	29.73	755.1	64	17.8	56	n.	1	0.4		5 k	0	w.		0	0	fair	G. W. Scott.
Decatur, Texas					74	23.3	59	ne	2	0.9		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.02	762.5	30.04	763.0	70	21.1	94	s.	6	2.7		4 ck	hz.	sw.		0	0	fair	T. S. Townsend.
Denison, Texas	29.13	739.9	29.91	759.7	69.8	21.0	94	n.	3	1.3			fg.			0	0	dense fog	J. McGlone.
Denver, Colorado	24.76	628.9	29.78	756.4	67.0	19.4	45	s.	9	4.0		0	0			0	0	clear	F. M. Neal.
Des Moines, Iowa	29.08	738.6	29.96	761.0	66	18.9	90	calm	0	0		0	fg.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.24	742.7	29.93	760.2	69.8	21.0	84	ne.	7	3.1		4 k	5 s			0.02	0.5	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.42	696.5	29.90	759.4	65	18.3	84	s.	1	0.4		0	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.26	743.2	29.95	760.7	65.3	18.5	97	sw.	2	0.9			fg.			0.07	1.8	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.26	743.2	29.98	761.5	62	16.7	100	ne.	6	2.7			fg.			0	0	dense fog	N. B. Conger.
Eagle Pass, Texas	29.12	739.6	29.91	759.7	78.0	25.0	76	se.	6	2.7			10 s		se.	0	0	cloudy	F. Belford.
Eagle Rock, Idaho	25.23	640.8	29.78	756.4	60	15.6	39	sw.	20	8.9		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.04	763.0	30.10	764.5	56.0	13.3	77	n.	10	4.5			10 s		n.	0	0	cloudy	D. C. Murphy.
Elliott, Fort, Texas	27.23	691.6	29.87	758.7	63	17.2	84	calm	0	0		3 k	0			0	0	clear	W. J. Cundall.
El Paso, Texas	20.24	666.5	29.84	757.9	64	17.8	93	calm	0	0		0	0			0	0	clear	J. F. Marshall
Erie, Pennsylvania	29.25	742.9	29.96	761.0	69	20.6	90	ne.	1	0.4			10 s			0.02	0.5	cloudy	Peter Wood.
Escanaba, Michigan	29.32	744.7	29.96	761.0	64.0	17.8	93	n.	10	4.5		0	6 s		n.	0.01	0.3	fair	George Heathcote.
Fredericksburg, Texas	28.22	716.8	29.93	760.2	75	23.9	88	calm	0	0		5 cs	0			inap.	inap.	fair	Frank Halwegler.
Galveston, Texas	29.90	759.4	29.95	760.7	82	27.8	80	sw.	4	1.8		0	5 ks		sw.	0	0	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.28	743.7	29.92	760.0	68.0	20.0	93	nw.	6	2.7			fg.			0	0	dense fog	W. A. Reid.
Grant, Fort, Arizona	25.23	640.8	29.80	756.9	62.9	17.2	84	e.	4	1.8		0	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.00	762.0	30.02	762.5	79	26.1	82	w.	12	5.4		hz.	0			0	0	clear	R. M. Crawford.
Helena, Montana	25.61	650.5	29.70	754.4	65	18.3	36	calm	0	0		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.00	736.6	30.00	762.0	75.0	23.9	76	e.	1	0.4		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.54	724.9	29.88	758.9	64.2	17.9	87	se.	8	3.6		3 k	0	s.		0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.13	739.9	29.90	759.4	72	22.2	90	se.	1	0.4			10 s		se.	0	0	cloudy	O. Schutze
Indianola, Texas	29.89	759.2	29.92	760.0	79.2	26.2	88	s.	7	3.1		3 c	3 ks;hz	n.	s.	0.11	2.8	fair	I. A. Reed.
Jacksboro, Texas	28.78	731.0	29.90	759.4	70	21.1	93	ne.	1	0.4		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.00	762.0	30.04	763.0	78	25.6	88	calm	0	0		5 ck	0			0	0	fair	J. W. Smith.
Keogh, Fort, Montana	27.24	691.9	29.67	753.6	69	20.6	53	se.	5	2.2		4 c;ck	0	sw.		0	0	fair	A. Schneider.
Keokuk, Iowa	29.29	744.0	29.92	760.0	70.5	21.4	83	calm	c	0		0	fg			0	0	clear	F. Z. Gosewisch
Key West, Florida	29.97	761.2	29.99	761.7	82.0	27.8	74	se.	4	1.8		2 cs	4 k		s.	0	0	fair	R. H. Paxton.
Kittyhawk, North Carolina	30.00	762.0	30.02	762.5	77.5	25.3	90	se.	2	0.9		0	8 s;k			0	0	threatening.	E. A. Beals.
Knoxville, Tennessee	28.97	735.8	29.98	761.5	69.2	20.7	98	se.	2	0.9			10 n			0.31	7.9	light rain	J. A. Cody.
La Crosse, Wisconsin	29.20	741.7	29.95	760.7	67	19.4	90	n.	3	1.3			fg.			0	0	dense fog	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.09	738.9	29.95	760.7	69	20.6	84	calm	0	0			fg.			0	0	dense fog	A. W. Browne.
Lewiston, Idaho	29.15	740.4	29.96	761.0	58.0	14.4	35	nw.	23	10.3		3 k	0	w.		0	0	clear	W. Bell.
Little Rock, Arkansas	29.61	752.1	29.92	760.0	73	22.8	97	e.	4	1.8		3 k	3 ks	e.	e.	0.22	5.6	fair	W. U. Simons.
Los Angeles, California	29.53	750.0	29.92	760.0	67	19.4	78	w.	3	1.3		0	0			0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.35	745.5	29.90	759.4	72	22.2	97	s.	1	0.4			10s;fg			0.07	1.8	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.31	744.5	29.98	761.5	72.8	22.7	70	ne.	1	0.4		0	4 s		nw.	0.15	3.8	fair	Lewis Duane.
Mackinaw City, Michigan	29.34	745.2	29.98	761.5	64.0	17.8	93	w.	2	0.9			10 s			0	0	cloudy	F. R. Day.
Macon, Fort, North Carolina	30.03	762.7	30.04	763.0	77	25.0	82	w.	11	4.9		2 c	hz.			0	0	clear	F. P. Chaffee.
Madison, Wisconsin	28.98	736.1	29.96	761.0	68	20.0	93	e.	3	1.3			10 s			0.04	1.0	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.36	644.1			75	23.9	37	nw.	20	8.9		0	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas	27.69	703.3	29.90	759.4	71	21.7	84	e.	2	0.9		4 ck	0			0.23	5.8	fair	J. E. Thatcher.
Marquette, Michigan	29.29	744.0	30.00	762.0	60	15.6	93	n.	1	0.4			fg.			0.04	1.0	dense fog	J. Gilligan.
Memphis, Tennessee	29.62	752.3	29.95	760.7	72	22.2	90	calm	0	0			10 s			0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.22	742.2	29.95	760.7	68	20.0	93	n.	6	2.7		2 ck	7 ks	ne.	ne.	0.60	15.2	cloudy	W. Line.

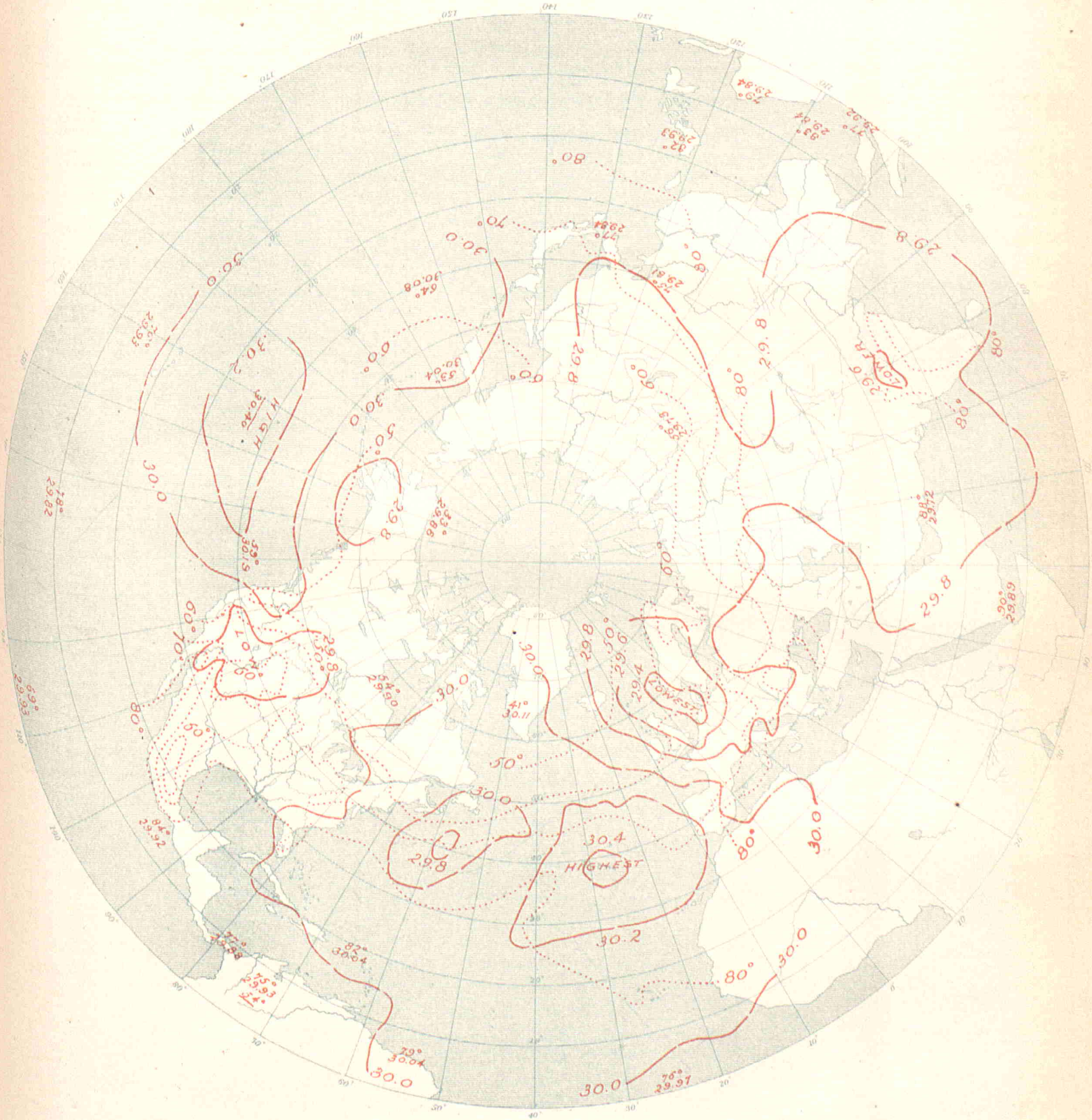
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.63	676.4	29.85	758.2	60	15.6	67	nw.	12	5.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	29.97	761.2	30.01	762.2	75	23.9	94	w.	7	3.1	.....	.....	10 n	.....	sw.	0.48	12.2	thund'r st'm	C. A. Read.
Montgomery, Alabama	29.76	755.9	29.99	761.7	73	22.8	94	se.	4	1.8	.....	.....	10 s	.....	w.	0.61	15.5	threatening.	J. B. McLaughlin.
Moorhead, Minnesota	28.93	734.8	29.90	759.4	67	19.4	90	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.99	736.3	29.99	761.7	67.5	19.7	88	calm	0	0	.....	.....	10 s	.....	sw.	inap.	inap.	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.97	608.8	30.05	763.3	41.5	5.3	96	n.	10	4.5	.....	3 c	7 s	n.	n.	0	0	cloudy	J. G. Livsley.
Nashville, Tennessee	29.36	745.7	29.92	760.0	73.0	22.8	90	sw.	2	0.9	.....	.....	10 ks	.....	w.	0.45	11.4	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	29.97	761.2	30.08	764.0	62.5	16.9	71	n.	9	4.0	.....	10 ck	0	nw.	.....	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.05	763.3	30.10	764.5	65	18.3	68	n.	3	1.3	.....	1 c	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.92	760.0	29.98	761.5	78.2	25.7	91	e.	1	0.4	.....	4 c	1 ks	nw.	se.	0.88	22.4	fair	L. Dunne.
Newport, Rhode Island	30.06	763.5	30.11	764.8	64.4	18.0	80	ne.	4	1.8	.....	1 c	1 s	.....	.....	0	0	clear	W. McGillivray.
New York, New York	29.91	759.7	30.08	764.0	70	21.1	66	e.	12	5.4	.....	3 cs	5 s	w.	.....	0	0	cloudy	J. B. Merrill.
Norfolk, Virginia	29.97	761.2	30.00	762.0	76	24.4	85	s.	1	0.4	.....	8 cs	0	sw.	.....	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.05	687.1	29.85	758.2	69.6	20.9	70	s.	6	2.7	.....	0	5 s	.....	s.	0	0	fair	E. F. Brady.
Olympia, Washington T'y.	30.02	762.5	30.06	763.5	50.5	10.3	93	s.	6	2.7	.....	0	9 s	.....	s.	0.16	4.1	cloudy	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	29.86	758.4	29.88	758.9	32.5	0.3	100	ne.	16	7.2	.....	.....	10 s	.....	.....	0.33	8.4	cloudy	P. H. Ray.
Omaha, Nebraska	28.83	732.3	29.97	761.2	75.0	23.9	82	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	A. Pollak.
Oswego, New York	29.70	754.4	30.02	762.5	66.5	19.2	69	se.	10	4.5	.....	8 cs	hz.	w.	.....	0	0	cloudy	S. W. Beall.
Palestine, Texas	29.41	747.0	29.95	760.7	73.0	22.8	97	s.	6	2.7	.....	5 ck	0	sw.	.....	2.28	57.9	fair	L. M. Pindell.
Pensacola, Florida	29.96	761.0	29.99	761.7	77.8	25.4	94	s.	2	0.9	.....	4 cs	6 ks	.....	s.	0.49	12.4	cloudy	M. McGauran.
Philadelphia, Pa.	29.96	761.0	30.06	763.5	70.5	21.4	84	w.	3	1.3	.....	.....	10s;hz	.....	w.	0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	18.05	485.8	29.84	757.9	34	1.1	85	s.	12	5.4	.....	0	0	.....	.....	0.05	1.3	clear	L. M. Dey.
Pioche, Nevada	24.06	611.1	29.76	755.0	64	17.8	52	s.	3	1.3	.....	0	0	.....	.....	0.01	0.3	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.17	740.9	29.96	761.0	69.9	21.1	90	e.	2	0.9	.....	3 k	5 s	w.	w.	inap.	inap.	cloudy	J. B. Turton.
Poplar River, Montana	27.59	700.8	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	29.98	761.5	29.99	761.7	78.6	25.9	92	sw.	6	2.7	.....	0	8 s	.....	sw.	0.43	10.9	cloudy	M. Hermann.
Port Huron, Michigan	29.28	743.7	29.94	760.5	66.0	18.9	84	s.	4	1.8	.....	.....	10 n	.....	.....	0.02	0.5	light rain	W. O. Bailey.
Portland, Maine	30.08	764.0	30.13	765.3	61.0	16.1	81	ne.	8	3.6	.....	.....	10 s	.....	ne.	0.05	1.3	cloudy	W. W. Eichelberger.
Portland, Oregon	30.02	762.5	30.09	764.3	45.0	7.2	93	w.	4	1.8	.....	.....	10 s	.....	w.	0.05	1.3	cloudy	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	80	26.7	79	s.	6	2.7	.....	4 c	0	.....	.....	0	0	fair	F. S. Coburn.
Prescott, Arizona	24.84	630.9	29.82	757.4	60	15.6	90	s.	3	1.3	.....	0	0	.....	.....	0	0	clear	J. Mc N. Wright.
Provincetown, Mass.	30.07	763.8	30.10	764.5	64	17.8	84	ne.	5	2.2	.....	2 cs	2 s	w.	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	29.98	761.5	30.00	762.0	77.5	25.3	86	ne.	7	3.1	.....	1 c	1 k	calm	calm	0.88	22.4	clear	W. J. Evans.
Red Bluff, California	.....	.....	.....	.....	.....	.....	.....	se.	.....	.....	1	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.70	754.4	29.94	760.5	80	26.7	79	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Rochester, New York	29.33	745.0	29.98	761.5	65	18.3	90	se.	5	2.2	.....	6 k	3ks;fg	.....	.....	0	0	cloudy	E. W. McGann
Roseburg, Oregon	29.55	750.6	30.00	764.3	43.5	6.4	87	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.70	754.4	29.78	756.4	61.2	16.2	78	s.	6	2.7	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.35	745.5	29.93	760.2	71.0	21.7	100	s.	1	0.4	.....	4 c	hz	sw.	.....	0	0	fair	J. H. Webber.
St. Paul, Minnesota	29.10	739.1	29.94	760.5	68.0	20.0	93	e.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	P. F. Lyons.
St. Vincent, Minnesota	28.99	736.3	29.84	757.9	60	15.6	93	e.	4	1.8	.....	0	0	.....	.....	0.12	3.0	clear	G. Kingsbury.
Salt Lake City, Utah	25.57	649.5	29.76	755.9	70	21.1	55	calm	0	0	.....	9 k	0	sw.	.....	inap.	inap.	cloudy	J. Craig.
San Antonio, Texas	29.24	742.7	29.93	760.2	75.0	23.9	90	calm	0	0	.....	3 cs	3 s	.....	se.	0.05	1.3	fair	T. J. Kenan.
San Diego, California	29.83	757.7	29.90	759.4	68.0	20.0	78	sw.	3	1.3	.....	.....	fg.	.....	.....	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.26	743.2	29.92	760.0	70.3	21.3	90	se	4	1.8	.....	2 c	2 s	.....	.....	0.02	0.5	fair	M. H. Perry.
Sandy Hook, New Jersey	30.03	762.7	30.06	763.5	73.0	22.8	76	ne.	14	6.3	.....	10 k	0	ne.	.....	0	0	cloudy	B. A. Blundon.
San Francisco, California	29.79	756.7	29.86	758.4	54	12.2	90	sw.	9	4.0	.....	0	0	.....	.....	0	0	clear	N. Gerom.
Santa Fé, New Mexico	23.31	592.1	29.80	756.9	62	16.7	39	e.	15	6.7	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.95	760.7	30.01	763.0	81	27.2	77	s.	6	2.7	.....	5 ck	0	.....	.....	0	0	fair	H. W. Ford.
Shaw, Fort, Montana	26.15	664.2	29.68	753.9	51	10.6	61	w.	6	2.7	.....	1 k	0	w.	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.68	753.9	29.91	759.7	72	22.2	97	se.	2	0.9	.....	.....	10 s	.....	.....	0.27	6.9	cloudy	E. N. Meekins.
Sill, Fort, Indian Territory	28.72	729.5	29.90	759.4	66.5	19.2	95	n.	4	1.8	.....	1 k	0	w.	.....	0	0	clear	T. Cleary.
Silver City, New Mexico	24.33	618.0	29.79	756.7	55	12.8	72	s.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. B. Wallace.
Sitka, Alaska	29.74	755.4	29.80	756.9	47.6	8.7	93	ne.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. J. McLean.
Smith, Fort, Arkansas	29.47	748.5	29.93	760.2	70.0	21.1	94	calm	0	0	.....	0	0	.....	.....	0.21	5.3	clear	J. B. Campbell.
Smithville, North Carolina	30.01	762.2	30.05	763.3	78	25.6	82	w.	10	4.5	.....	1 c	3 k	.....	w.	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	27.96	710.2	29.96	761.0	48	8.9	66	s.	9	4.0	.....	1 k	0	sw.	.....	inap.	inap.	clear	D. Moore.
Springfield, Illinois	29.77	743.4	29.93	760.2	71	21.7	90	w.	2	0.9	.....	0	4s;ks	.....	n.	0	0	fair	T. B. Jennings.
Springfield, Massachusetts	29.99	761.7	30.12	765.0	64.1	17.8	73	ne.	5	2.2	.....	9 c	0	.....	.....	0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.54	724.9	29.93	760.2	67.9	19.9	92	calm	0	0	.....	0	fg.	.....	.....	0	0	dense fog	J. B. Marbury.
Starkville, Miss.	29.48	748.8	29.95	760.7	73	22.8	97	se.	3	1.3	.....	.....	10 s	.....	.....	1.60	40.6	cloudy	M. J. Wright, jr.
Stevenson, Fort, Dakota	27.96	710.2	29.74	755.4	60	15.6	87	e.	4	1.8	.....	0	3 s	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	26.98	685.3	29.92	760.0	68.0	20.0	66	s.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thomas Camp	27.17	690.1	29.79	756.7	71	21.7	73	calm	.....	.....	0	2 ck	0	s.	.....	0	0	clear	
Thatcher's Island, Mass.	30.05	763.3	30.10	764.5	60.0	15.6	93	e.	11	4.9	.....	.....	10 k	.....	e.	0	0	cloudy	G. Liebmann.
Toledo, Ohio	29.20	743.2	29.93	760.2	70	21.1	90	ne.	2	0.9	.....	2 c	5ks;fg	w.	.....	0.08	2.0	fair	A. Buell.
Tucson, Arizona	27.50	698.5	29.84	757.9	72	22.2	84	se.	1	0.4	.....	3 ck	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.72	754.9	30.08	764.0	53	11.7	66	w.	11	4.9	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	28.96	735.6	29.90	759.4	77	25.0	82	se.	3	1.3	.....	5 ck	5 s	ne.	.....	inap.	inap.	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	68	20.0	61	sw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.73	755.1	29.97	761.2	75	23.9	97	sw.	2	0.9	.....	.....	10 s	.....	sw.	0.65	16.5	cloudy	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.44	620.8	29.78	756.4	56.0	13.3	55	w.	6	2.7	.....	4 c	1 k	w.	.....	0	0	fair	T. M. Ambler.
Washington, D. C.	29.92	760.0	30.03	762.7	72.5	22.5	82	calm	0	0	.....	9 ck	hz.	nw.	.....	0	0	cloudy	F. M. M. Beall.
West Las Animas, Colorado	26.06	661.9	29.81	757.2	58	14.4	77	e.	7	3.1	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.44	747.8	30.02	762.5	67	19.4	84	sw.	1	0.4	.....	.....	10 s	.....	.....	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	29.99	761.7	30.04	763.0	77	25.0	85	w.	7	3.1	.....	7 c	0	.....	.....	0	0	fair	Samuel A. Haney.
Winnemucca, Nevada	25.55	649.0	29.78	756.4	58.5	14.7	23	sw.	6	2.7	.....	0	6 s	.....	sw.	0	0	fair	J. Grover.
Yankton, Dakota	28.56	725.4	29.83	757.7	66	18.9	75	e.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.62	752.3	29.76	755.9	85.0	29.4	61	se.	13	5.8	.....	.....	10 s	.....	se.	0	0	cloudy	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	53.5	11.9	79	calm	0	0	.....	.....	10 ns	.....	ne.	0.20	5.1	raining	Joaquin Gomez.
Bridgetown, Barbadoes, W. I.	29.96	761.0	29.97	761.2	82	27.8	74	ne.	.....	.....	.....	0	5 s	.....	.....	0.30	7.6	fair	J. A. Racker.
Buenaventura, U. S. C.	30.05	763.3	30.08	764.0	76	24.4	95	calm	0	0	.....	4 cs	0	se.	.....	0	0	fair	J. I. Plume.
Havana, Cuba	29.95	760.7	30.01	762.2	81	27.2	82	calm	0	0	.....	7 cs	0	e.	.....	0	0	fair	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	70	21.1	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa, W. I.	29.89	759.2	29.97	761.2	81	27.2	74	ne.	10	4.5	.....	1 cs	3 ks	e.	ne.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	79	26.1	82	se.	.....	.....	2	3 c	0	.....	.....	0.10	2.5	clear	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.37	746.0	29.93	760.2	75	23.9	89	se.	.....	.....	1	.....	10 ks	.....	s.	0.85	21.6	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	77.4	25.2	95	ne.	.....	.....	2	1 cs	0	sw.	.....	0	0	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.65	753.1	29.71	754.6	49	9.4	100	calm	.....	.....	0	.....	10 n	.....	.....	0.39	9.9	light rain	W. J. Fisher.
St. Thomas, W. I.	29.97	761.2	30.10	764.5	83	28.3	74	e.	.....	.....	.....	0	2 k	.....	e.	0	0	clear	Aug. Wallos.
York Factory, B. A.	29.84	757.9	29.90	759.4	54.0	12.2	93	sw.	10	4.5	.....	0	0	.....	.....	0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, Horta Bay, Faoal Island	30.45	773.4	75	23.9	68	sse.			3		8							d. clouds.
H. M. S. Alexandra, Port Said, Egypt	29.83	757.7	81	27.2	82	nnw.			3		0					1	nnw.	misty.
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.06	763.5	71.5	21.9	83	nne.			1-2		0							misty.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.89	759.2	75	23.9		nne.			3		5	n.						d. clouds.
H. M. S. Arab, Muscat, Arabia	29.63	752.6	83.5	28.6	77	se.			2		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.10	764.5	61.5	16.4		nw.			1		2							d. clouds.
H. M. S. Comus, Esquimalt, Vancouver Island	29.98	761.5	53	11.7	79	calm			0		6							showery.
H. M. S. Diamond, S. 23° 34′, E. 154° 46′	30.25	768.3	70	21.1	71	ese.			2-5		3					1	se.	d. clouds.
H. M. S. Dido, N. 17° 00′, W. 76° 00′	30.05	763.3	83	28.3		ene.			3-6		7	e.				2	ne.	showery.
H. M. Dock-Yard, Bermuda, W. I.	30.00	762.0	79	26.1	78	wnw.			1-2		4	wnw.						d. clouds.
H. M. S. Eclipse, N. 30° 15′ E. 32° 27′	29.69	754.1	89.5	31.9		n.			1		2							d. clouds.
H. M. S. Fantome, N. 13° 04′, W. 59° 37′	29.96	761.0	82	27.8		ene.			1		4	ene.						d. clouds.
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33′	29.84	757.9	71	21.7	100	ne.			1-2		10							raining.
H. M. S. Gannet, S. 2° 12′, W. 79° 51′	29.92	760.0	67.5	19.7	84	sw.			3		9	ne.						d. clouds.
H. M. S. Griffon, N. 46° 39′, W. 53° 04′	29.89	759.2	55.5	13.1	87	sw.			1		10					6	ese.	overcast.
H. M. S. Iron Duke, N. 39° 10′, E. 127° 23′	29.79	756.7	69	20.6	95	calm			0		7							d. clouds.
H. M. S. Lark, S. 10° 28′, E. 161° 59′	29.93	760.2	78.3	25.7	84	sw.			1		5							d. clouds.
H. M. S. Liffey, Coquimbo, Chili	29.97	761.2	57	13.9		n.			2							4	n.	d. clouds.
H. M. S. Magpie, N. 35° 09, E. 128° 42′	29.84	757.9	76.9	24.9	76	ese.			1		9	w.						d. clouds.
H. M. S. Minotaur, off Ramleh Egypt	29.83	757.7	80.5	26.9	76	nw.			1		1							blue sky.
H. M. S. Northampton, N 48° 41′, W. 68° 10′	30.14	765.5	53.5	11.9	100	calm			0		4							d. clouds.
H. M. S. Pegasus, N. 5° 16′, E. 115° 15′	29.84	757.9	79	26.1	95	ssw.			1		10					2	sw.	overcast.
H. M. S. Sappho, N. 20° 12′, W. 155° 40′	30.02	762.5	73	22.8	?	ese.			3-4		7	ene.				4	ene.	squally.
H. M. S. Swiftsure, Coquimbo, Chili	30.15	765.8	54	12.2	93	nnw.			3		7	n.						misty.
H. M. S. Sylvia, Montevideo, Uruguay	30.31	769.9	48	8.9	92	ssw.			3		4							d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	29.88	758.9	55	12.8	87	wnw.			2		8							d. clouds.
H. M. S. Triumph, S. 23° 05′, W. 43° 05′	30.02	762.5	69	20.6	75	calm			0		4	calm				1	nne.	misty.
H. M. S. Woodlark, Jask, Persia	29.62	752.3	87.5	30.8	75	var.			1		1					3	s.	blue sky.
Portuguese Naval.																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.05	763.2	83.3	28.5	88	ne.			3		0					1		blue sky.
Tamega, Macao, China	29.89	759.1	86.0	30.0	85	sw.			2		0							blue sky.
United States Naval.																		
Navy Yard, Pensacola, Fla	30.00	762.0	80	26.7	91	ssw.	5	2.2			8		sw.	0.16	4.1			fair.
Navy Yard, Portsmouth, N. H	30.14	765.5	61	16.1	82	ne.	6	2.7			5		ne.	0	0			fair.
Naval Hospital, Yokohama, Japan*	29.72	754.9	73	22.8	78	s.			1		2		w.	0	0			clear.
Adams, Mare Island, Cal			58	14.4	88	sw.			6		0			0	0	sm'h		clear.
Alaska, N. 8° 54′ W. 137° 35′	29.82	757.4	79	26.1	78	se.			2		2		s.	0	0	sm'h		fair.
Alliance, N. 43° 14′, W. 69° 52′	30.12	765.0	61	16.1	94	e.			3-4		8			0	0	mod.		cloudy.
Ashuelot, Yokohama, Japan*	29.77	756.1	76	24.4	86	s.			1		5		sw.					fair.
Brooklyn, Rio de Janeiro, Brazil	30.09	764.3	72	22.2	80	n.	8	3.6			2		calm	0	0	sm'h		fair.
Colorado, New York, N. Y.	29.92	760.0	71	21.7	52	s.	4	1.8			8			0	0			hazy.
Constellation, Chesapeake Bay *	30.02	762.5	76	24.4	95	e.			2		8		e.					cloudy.
Essex, Coquimbo, Chili	30.02	762.5	55	12.8	80	nne.			3		8		ne.			long	nw.	hazy.
Franklin, Norfolk, Va	30.01	762.2	76	24.4	95	ssw.	1.5	0.7			8		sw.	0	0			fair.
Galena, N. 1° 25′, W. 26° 20′	30.07	763.8	76	24.4	95	sse.			4		2		sse.			mod.	sse.	fair.
Hartford, N. 34° 37′, W. 20° 50′*	30.29	769.4	72	22.2	85	ne.			4		2		ene.	0	0	sm'h	ene.	clear.
Independence, Navy Yard, Mare Island, Cal	29.87	758.7	58	14.4	100	sw.			5		0			0	0			misty.
Iroquois, N. 13° 26′ W. 95° 26′	29.92	760.0	84	28.9	71	ese.			2		2		e.			sm'h	se.	clear.
Kearsarge, Portsmouth, N. H	30.13	765.3	59	15.0	100	n.			1		8		n.			sm'h		fair.
Lackawanna, Callao, Peru*	29.99	761.7	62	16.7	83	calm			0		10							misty.
Lancaster, N. 41° 42′, E. 10° 19′*	29.83	757.7	81	27.2	91	s.			3		2		calm	0	0	mod.	s.	fair.
Marion, S. 34° 54′, W. 56° 13′	30.23	767.8	51	10.6	59	ssw.			1		5		sw.	0	0	sm'h		fair.
Michigan, Marquette, Michigan	29.92	760.0	60	15.6	94	calm			0		10							foggy.
Minnesota, New York, N. Y.	30.11	764.8	70	21.1	75	ene.	4	1.8			8		e.					hazy.
Monocacy, N. 37° 27′, E. 126° 33′	29.86	758.4	70	21.1	90	ese.			1		10		calm					cloudy.
New Hampshire, Newport, R. I	30.13	765.3	67	19.4	84	n.			3		2					sm'h		clear.
Nipsic, Messina, Sicily *	29.86	758.4	82	27.8	67	ne.			4		2					sm'h		clear.
Onward, Callao, Peru†	30.15	765.8	59	15.0	94	calm			0		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.78	756.4	72	22.2	85	calm			0		5		nw.					fair.
Passaic, Washington, D. C			72	22.2	80	ne.			1		8							cloudy.
Pensacola, Payta, Peru*	29.92	760.0	62	16.7	83	ese.	5	2.2			10			0	0	sm'h		cloudy.
Portsmouth, Gibraltar, Mediterranean *	29.99	761.7	77	25.0	52	w.			3		2		w.			sm'h		clear.
Powhatan, Norfolk, Va	30.00	762.0	77	25.0	91	ese.			2		5							fair.
Quinnebaug, Alexandria, Egypt*	29.81	757.2	80	26.7	82	nnw.			3		0					sm'h		clear.
Ranger, Mare Island, Cal	29.87	758.7	59	15.0	76	ssw.			4		0			0	0			clear.
Richmond, Yokohama, Japan*	29.78	756.4	75	23.9	81	s.			1		5		nw.	0	0			fair.
Saratoga, Gibraltar, Mediterranean	29.97	761.2	69	20.6	90	n.			1		0			0	0	sm'h		fair.
St. Louis, League Island, Pa	30.16	766.1	68	20.0	95	nne.			2		5		ne.	0	0			fair.
Swatara, N. 1° 17′, E. 104° 10′ *	29.72	754.9	77	25.0	91	wnw.			3		10		se.			sm'h		raining.
Tennessee, N. 43° 20′, W. 69° 46′†	30.27	768.8	64	17.8	94	ene.	24	10.7			10			0	0			cloudy.
Vandalia, Portsmouth, N. H*	30.11	764.8	62	16.7	88	nne.			1		2		n.					fair.
Wabash, Boston, Mass	30.09	764.3	62	16.7	88	n.	6	2.7			8		nw.	0	0			cloudy.
Wachusetts, Fort Wrangle, Alaska†	30.06	763.5	53	11.7	93	ne.			1		2		calm	0	0	sm'h		clear.
Wyoming, N. 30° 31′, W. 79° 52′ *	30.02	762.5	80	26.7	74	sse.	10	4.5			2		nne.	0	0	sm'h	sse.	clear.
Yantic, N. 43° 11′, W. 69° 50′	30.11	764.8	63	17.2	78	e.			5		8					mod	e.	fair.
MERCHANT MARINE.																		
Allan Line.																		
S. S. Circassian, N. 55° 55′, W. 17° 50′*	29.90	759.4	55	12.8	87	w.			4		8		wsw.	inap.	inap.	3	sw.	d. clouds.
S. S. Grecian, Ismailia, Egypt *	29.77	756.1	94	34.4		n.			2		0			0	0			clear.
S. S. Nova Scotian, Halifax, Nova Scotia			58	14.4		nne.			2		2		n.					clear.
S. S. Polynesian, N. 56° 01′, W. 12° 29′*	29.70	754.4	59	15.0		n.			6		6		n.	4 h'r	4 h'r	r'gh	n.	cloudy.
S. S. Scandinavian, N 50° 59′, W. 34° 10′*†	29.88	758.9	60	15.6		ssw.			3		10			4 h'r	4 h'r	mod.	ssw.	misty.
S. S. Waldensian, N. 47° 05′ W 52° 43′ *	29.89	759.2	54	12.2		wnw.			3		5		w.	0	0	mod.	ne.	fine.
American Steamship Company.																		
S. S. British Crown, N. 45° 58′ W. 46° 02′†	30.04	763.0	61	16.1		ese.			4		0			0	0	mod.	ssw.	clear.
S. S. Indiana, Philadelphia, Pa †	29.99	761.7	71	21.7	95	e.			2		2		e.					fine.
S. S. Lord Clive, Liverpool, Eng *†	29.50	749.3				wnw.			5		8		wnw.	5 h'r	5 h'r			cloudy.
S. S. Lord Gough, Philadelphia, Pa	30.06	762.0	72	22.2		w.			2		10		wnw.	0	0			cloudy.
S. S. Ohio, N. 51° 32′ W. 10° 47′ †	29.87	758.7	68	20.0	94	nw.			5		6		nw.			r'gh	nw.	
Amsterdam Line.																		
S. S. Stella, N. 43° 15′, W. 45° 34′	30.06	763.4	75.6	24.2		s.			2		3		sw.	0	0	3	sw.	d. clouds.
Anchor Line.																		
S. S. Alexandria, N. 38° 43′ W. 16° 34′	30.35	770.9	69.5	20.8		nne.			3		5		nne.	2 h'r	2 h'r	5	n.	
S. S. Assyria, N. 49° 31′, W 7° 30′*	29.91	759.7	63	17.2		nw.			6		10		nw.	0	0	r'gh	nw.	squally.
S. S. Bolivia, New York, N. Y.*†	30.06	763.5	80	26.7		se.			1		0			0	0			clear.
S. S. Devonia, N. 46° 22′, W. 46° 30′†	30.02	762.5	60	15.6		ssw.			2		0					short	ssw.	hazy.
S. S. Dorian, N 43° 44′, W. 46° 11′*	29.92	760.0	74	23.3		wsw.			5		4		wsw.	0	0	mod.	nw.	fine.
S. S. Utopia, S. 47° 13′, W. 9° 06′†	30.18	766.6	64	17.8	83	nw.			5		2		nw.	2 h'r	2 h'r	cf'd	nw.	clear.
Atlas Line.																		
S. S. Alpin, N. 31° 37′, W. 74° 00′	30.09	764.3				n.			2		5		nw.	0	0		nw.	
S. S. Antillas, Port Antonio, Jamaica, W. I.†	29.75	755.6	90	32.2		calm			0					0	0			d. clouds.
British Meteorological Office.																		
Auckland, S. 47° 05 E. 116° 14′	29.73	755.1	46	7.8	84	wsw.			3		2							blue sky.
S. Baroda, N. 30° 33′, W. 41° 10′	30.24	768.1	78.4	25.8	82	ene.			4		7							d. clouds.
S. S. Basil, N. 21° 53′, W. 22° 08′	30.10	764.5	76	24.4	91	ne.			4		1							misty.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
British Meteorological Office.—Continued.																		
S. S. British Merchant, N. 16° 44′, W. 26° 34′	30.06	763.5	79.8	26.6	82	nne.			2		2							blue sky.
Bk. Caldew, S. 36° 40′, E. 44° 59′	30.54	775.7	60	15.6	82	nnw.			5		10							overcast.
S. S. City of Agra, S. 38° 37′, E. 74° 48′	30.13	765.3	48.2	9.0	81	sw.			5		3							d. clouds.
S. S. Humboldt, S. 28° 10′, W. 46° 17′	30.20	767.1	61.9	16.6	70	sw			4		10					h'vy	cross	overcast.
S. S. Minho, S. 34° 36′, W. 58° 10′	30.31	769.9	52.2	11.2	84	ssw.			3		0							blue sky
S. S. Oamaru, N. 39° 50′, W. 34° 25′	30.36	771.1	78.0	25.6	77	se.			3–4		3							d clouds.
S. S. Rosetta, N. 10° 16′, E. 56° 36′	29.80	756.9	75.5	24.2	95	sw.			4		1							blue sky.
Cunard Line.																		
S. S. Gallia, N. 41° 44′, W. 53° 06′	29.91	759.7	77	25.0	77	ssw.			6		5		sw.			mod.	sw.	raining.
S. S. Marathon, Lake Ismalia, Egypt	30.02	762.5	88	31.1		nnw.			1		0			0	0	sm'h	nnw.	clear.
S. S. Scythia, N. 44° 28′ W 47° 50′	29.88	758.9	71	21.7	100	ssw.			2		1		calm	0	0	slight	ssw.	fair.
Donaldson Line.																		
S. S. Colina, Frith of Clyde, Scotland,†	29.88	758.9				wnw.			1		6		wnw.			sm'h		cloudy.
General Trans-Atlantic Company																		
S. S. France, N. 41° 38′, W. 59° 00′ †	29.63	752.7	69.8	21		wsw.			4		10 k		wsw.	rain	ram		sw.	raining.
S. S. Ville de Marseilles, N. 40° 30′, W. 65° 40′ *†	29.85	758.2	67	19.4		nnw.			5		9		n.	0	0	long	n.	cloudy.
Guion Line.																		
S. S. Arizona, N. 47° 14′ W. 44° 07′	29.98	761.5	63	17.2		w.			4		10			0	0	mod.	wsw.	overcast.
S. S. Wisconsin, N. 45° 50′, W. 50° 01′	29.82	757.4	62	16.7		sw.			3		0			0	0	mod.	sw.	clear.
Hamburg American Packet Company.																		
S. S. Frisa, N. 49° 18′ W. 14° 27′*	30.08	764.0	63	17.2		nw.			5		5?		nw.	0	0	cross	nw.	cloudy.?
S. S. Herder, N. 40° 08′, W. 62° 58′ *	29.59	751.6	71	21.7		nw.			4		5?		n.	0	0	mod.	wnw.	cloudy.?
S. S. Silesia, New York, N. Y.	30.03	762.7	65.2	18.4		ne.			5		5		e.	0	0			fair.
S. S. Vandalia, N. 53° 58′. E. 8° 06′*	29.38	746.2	55.9	13.3		s.			5		8		s.	0	0	sm'h	s.	cloudy.
Johnston Line.																		
S. S. St. Albans, N. 44° 20′, W. 42° 20′*†	30.20	767.1	72	22.2		wsw.			5		5?		w.	0	0	high	sw.	cloudy.?
Lampert and Holt's Line.																		
S. S. Hevelius, S. 6° 00′ W. 33° 00′*†	30.21	767.3	79	26.1		se.			6		5?		sse.	0	0	long	se.	clear?
Leyland Line.																		
S. S. Bulgarian, N. 51° 23′, W. 10° 10′*	29.92	760.0				wnw.			4		9		wnw.	½ h'r	½ h'r	mod.	nw.	cloudy.
Mallory Line.																		
S. S. Colorado, New York, N. Y†	30.10	764.5	70	21.1		ne.			2		8		ne.	0	0			overcast.
S. S. San Marcos, N. 28° 40′ W. 92° 47′	29.97	761.2				ssw.												fine.
Mediterranean and New York Steamship Co.																		
S. S. Archimede, Naples, Italy *†	29.94	760.5	81	27.2	66	w.			2		2			0	0			clear.
Merchants' Express Line.																		
S. S. Hermod, N. 49° 40′, W. 8° 00′ †	29.92	760.0	60.8	16		nnw.			6		8		nnw.	6 h'r	6 h'r	r'gh	nw.	clearing.
Merchants' Steamship Company.																		
S. S. Glenfyne, N. 30° 18′ W 68° 33′	29.67	753.6				ssw.			3		5?		ssw.	0	0	sm'h	sw.	clear?
S. S. Glenapp, S. 16° 00′, W. 38° 45′†	30.07	763.8				var.			2		5		sse.	1 h'r	1 h'r	sm'h		fine.
Morgan Line.																		
S. S. Chalmette, New York, N. Y.†	30.10	764.5	77	25.0		e.			1		8		se.	0	0			cloudy.
S. S New York, N. 28° 00′, W. 88° 00′†	29.97	761.2	82	27.8		sw.			3		3		sw.			small	w.	clear.
National Line.																		
S. S. Denmark, N. 50° 05′, W. 3° 35′	29.75	755.6	60	15.6		wnw.			6		5?		wnw.	2 h'r	2 h'r	mod.	w.	cloudy.?
S. S. England, New York N. Y	30.20	767.1				e.			5		5		e.	0	0	sli't	e.	clear.?
S. S. Erin, N. 49° 49′, W. 58° 20′	29.72	754.9	78	25.6	52	nnw.			10		10		nw.	6 h'r	6 h'r	r'gh	w.	raining.
S. S. Helvetia, Liverpool, Eng	29.57	751.1	63	17.2		wnw.			4		2		wnw.	15 h'r	15 h'r			showery.
New York and Cuba Mail Steamship Company.																		
S. S. Santiago, Cienfuegos, Cuba, W. I†	30.05	763.3	84	28.9		ne.			1		1			0	0			fine.
New York Havana and Mexican Mail.																		
S. S. City of Alexandria, Campeche, C. A †	29.96	761.0	86	30.0	68	ene.			3		5		ne.	0	0			fair.
S. S. Washington, N. 33° 40′, W. 75° 22′* †	30.27	768.8	80	26.7		w.			2		2		w.	0	0	mod.	e.	fine.
New York Herald Weather Service.																		
S. S. Amsterdam, N. 40° 40′ W. 72° 38′*	30.11	764.8	71	21.7		ne.			3									fair.
S. S. Lone Star, N. 24° 28′, W. 81° 08′*†	30.06	763.5	82	27.8		se.			1							sm'h		clear.
S. S. Maas, N. 48° 24′, W. 25° 54′*	30.13	765.3	63	17.2		wsw.			4							mod.		fine.
North German Lloyd.																		
S. S. America, N. 49° 41′, W. 5° 50′*	29.87	758.7	61.5	16.4	94	nw.			6		7		nw.	1 h'r	1 h'r	short	nw.	showery.
S. S. Donau, N. 49° 03′, W. 28° 15′	30.18	766.6				ssw.			4–5		10		sw.			mod.	sw.	cloudy.
S. S. Elbe, Bremerhaven, Germany	29.66	753.3	64.4	18.0	95	w.			4–5		8		w.	0	0			cloudy.
S. S. Gen. Werder, N. 41° 18′, W. 66° 52′	29.98	761.5				nne.			5		10		n.	2 h'r	2 h'r	sm'h		covered.
S. S. Graf Bismark, Rio de Janeiro, Brazil	30.13	765.3	68.0	20.0		n			4		8		n.	0	0	light	n.	hazy.
S. S. Habsburg, N. 41° 30′, W. 53° 33′	29.88	758.9	77.0	25.0		ssw.			5		2		ssw.	0	0	r'gh	ssw.	fair.
S. S. Hohenstaufen, Bremerhaven, Germany	29.42	747.3	64.4	18.0		ssw.			3		8		ssw.	18 h'r	18 h'r			cloudy.
S. S. Koln, N. 37° 46′, W. 71° 29′*	30.09	764.3	75.5	24.2	68	calm			0		2			0	0	sm'h	s.	clear.
S. S. Neckar, N. 49° 35′ W. 7° 08′	29.92	760.0	61.0	16.1	100	wnw.			6		9		nw.	0	0	r'gh	nw.	hazy.
S. S. Ohio, N 46° 42′, W. 31° 47′	30.26	767.1				wsw.			6		3		sw.	0	0	mod.	wsw.	fair.
S. S. Salier, Bremerhaven, Germany	29.40	740.7	59.3	13.5		wsw.			3		8		wsw.	3 h'r	3 h'r			cloudy.
S. S. Strassburg, N. 45° 58′, W. 47° 59′	29.92	760.0	63.0	17.2	94	ssw.			2		1		ssw.	2 h'r	2 h'r	mod.	ssw.	clear.
Occidental and Oriental Steamship Company.																		
S. S. Arabic, N. 43° 14′, E. 160° 48′†	30.17	766.3	62	16.7	88	wnw.			3		10		w.	0	0	sm'h		hazy.
S. S. Belgic, Hong Kong, China†	30.01	762.2	86	30.0	84	calm			0		0			0	0			clear.
S. S. Coptic, N. 42° 06′, W. 132° 23′	30.19	766.8	58.5	14.7	100	ssw.			4		6		ssw.	0	0	3	ssw.	d. clouds.
S. S. Gaelic, N. 26° 10′, E. 121° 54′ †	30.07	763.8	80	20.7	87	n.			1		4		n.			sm'h		clear.
Ocean Steamship Company.																		
S. S. City of Augusta, N. 33° 40′, W. 77° 32′†	30.03	762.7				sw.			3		2		sw.	0	0	long	ese.	clear.
S. S. Seminole, N. 33° 50′, W. 77° 00′ †	30.12	765.0	76	24.4	86	wsw.			4		1		sw.	0	0	mod.	ssw.	clear.
Oregon Improvement Company.																		
S. S. Mississippi, Tacoma, Wash. Ter. †	30.12	765.0	55	12.8	87	s.			2		9		sw.					light rain.
Oregon Railway and Navigation Company.																		
S. S. Oregon, San Francisco, Cal†	29.87	758.7	54	12.2	93	calm			0		5?							cloudy?
Pacific Coast Steamship Company.																		
S. S. Ancon, N. 35° 30′ W. 121° 11′†	29.84	757.9	55	12.8	87	ese.			2		10		e.			sm. h		cloudy.
S. S. City of Chester, San Francisco, Cal			55	12.8	87	w.			1		0							clear.
S. S. Idaho, Port Townsend, Wash. Ter.†	30.02	762.5	54	12.2	87	se.			3		8		s.	0	0			cloudy.
S. S. State of California, N. 42° 28′, W. 124° 40′†	30.09	764.3	52	11.1	?	nw.			4		0					short	nw.	clear.
S. S. Victoria, N. 48° 23′ W. 124° 43′†	29.98	761.5	52	11.1	93	e.			3		5?			0	0	light	w.	overcast?
Pacific Mail Steamship Company.																		
S. S. Australia, N. 14° 31′, W. 160° 38′	29.93	760.2	76	24.4	91	ne.			4		1		ne.	0	0	mod.	ne.	misty.
S. S. City of New York, Sydney, N. S. W†	30.23	767.8	65	18.3	73	se.			1		8		se.	1 h'r	1 h'r			cloudy.
S. S. City of Pekin, N. 26° 17′, E. 121° 31′ †	30.01	762.2	80	26.7	91	ssw.			3		5		sw.	0	0	sm'h		fine.
S. S. City of Tokio, N. 41° 48′ E. 162° 10′ †	30.18	766.0	64	17.8	83	e.			2		5?		e.	0	0	small	s.	cloudy.?
S. S. Colima, Panama, Panama†	29.88	758.9	77	25.0	91	nnw.			2		8		n.	0.02	0.5			cloudy.
S. S. Clyde, N. 22° 05′, W. 105° 56′†	29.95	760.7	82	27.8	87	calm			0		8		se.	5 h'r	5 h'r	long	s.	cloudy.
S. S. Grenada, N. 34° 15′, W. 119° 12′†	29.84	757.9	59	15.0	61	calm			0		10			0	0	mod.	wsw.	foggy.
S. S. Zealandia, Sydney, N. S. W.	30.23	767.8	65	18.3		calm			0		5		nw.					
Quebec Steamship Company.																		
S. S. Bermuda, N. 18° 05′, W. 62° 50′†	30.07	763.8	85	29.4		e.			4		7		e.			long	e.	cloudy.
S. S. Muriel, N. 28° 40′, W. 67° 00′	30.14	765.5	83	28.3		nw			2		10			light	light	sm'h		overcast.
Red D Line.																		
S. S. Valencia, N. 33° 57′, W. 71° 37′ *†	30.30	769.6	83	28.3	67	nnw.			2		1		nnw.	0	0	light	e.	fair.
Red Star Line.																		
S. S. Belgenland, N. 46° 20′, W. 28° 49′†	30.47	773.9	74	23.3	90	wsw.			6		6		w.			sm'h		hazy.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED STAR LINE.—CONTINUED.																		
S. S. Nederland, N. 49° 03′, W. 38° 12′†	29.87	758.7	66	18.9	94	w.			4		2		wsw.	driz.	driz.	mod	wsw.	clear.
S. S. Pennland, New York, N. Y	30.07	763.8				ne.			4		10		ne.	o	o			hazy.
S. S. Vaderland, Antwerp, Belgium	29.47	748.5	60	15.6	82	ssw.			5		10		ssw.	6 h'r	6 h'r			cloudy.
S. S. Waesland, Antwerp, Belgium	29.44	747.8	61	16.1	?	sw.			6		10		sw.	5 h'r	5 h'r			cloudy.
ROTTERDAM LINE.																		
S. S. Edam, Amsterdam, Holland			58.5	14.7	94	wnw.			6		6		w.	o	o			squally
S. S. Schiedam, N. 48° 05′, W. 24° 33′	30.22	767.6	68.5	20.3	91	sw.			6		10			3 h'r	3 h'r	mod.	sw.	foggy.
S. S. W. A. Scholten, Rotterdam, Hollands*	29.26	743.2	62.8	17.1	83	sw.			3		5		w.	5 h'r	5 h'r			
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, N. 22° 46′, W. 74° 26′	30.09	764.3	83	28.3		e.			2		2		e.	¼ h'r	¼ h'r	gentle	e.	fair.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.50	749.3	63	17.2		wsw.			3		5		s.	2 h'r	2 h'r			fair.
S. S. State of Georgia, N. 54° 20′, W. 19° 15′†	29.98	761.5	55	12.8		w.			3		9		nw.	o	o	mod.	nw.	cloudy.
S. S. State of Indiana, N. 41° 32′ W. 63° 23′†	30.09	764.3	66	18.9		n.			3		3		n.	1 h'r	1 h'r	sm'h		fair.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 47° 30′, W. 43° 15′†	30.22	767.6	61.7	16.5	80	w.			2		3		w.	o	o	mod.	w.	clear.
WHITE CROSS LINE.																		
S. S. Plantyn, Antwerp, Belgium	29.44	747.8	71	21.7					4		5?			3 h'r	3 h'r			cloudy?
WHITE STAR LINE.																		
S. S. Adriatic, N. 40° 54′, W. 62° 12′*†	29.96	761.0	66	18.9	84	nnw.			4		10		nne.	3 h'r	3 h'r	mod.	n.	showery.
S. S. Britannic, N. 50° 25′, W. 21° 09′†	30.21	767.3	59	15.0	82	s.			4		10		s.	6 h'r	6 h'r	mod.	ssw.	drizzling.
S. S. Celtic, Liverpool, England†	29.68	753.9	62	16.7	83	w.			4		8		w.	sh'rs	shr's			fair.
S. S. Germanic, N. 40° 37′, W. 67° 30′†	30.15	765.8	56	13.3		nw.			2		1		nw.	1 h'r	1 h'r	sm'h		d. clouds.
S. S. Republic, N. 50° 41′, W. 28° 14′†	30.15	765.8	62	16.7	100	ssw.			5		10		sw.	6 h'r	6 h'r	mod.	sw.	raining.
WILSON LINE.																		
S. S. Otranto, N. 43° 39′ W. 57° 24′†	29.88	758.9	54	12.2		ne.			5		10		nnw.			cross	ssw.	hazy.
S. S. Romano, N. 41 20′, W. 44° 50′	30.05	763.3	78	25.6		calm			0		0			o	o	mod.	w.	clear.
S. S. Salerno, N. 49° 24′, W. 20° 31′*	29.93	760.2	62	16.7		w.			6		10		w.	o	o	mod.	nw.	
WINSOR LINE.																		
S. S. Catherine Whiting, Providence' R. I.†	30.16	766.1	74	23.3		nnw.			1		0			o	o			
MISCELLANEOUS.																		
Bk. Adelaide, N. 14° 51′, W. 48° 14′*†	30.09	764.3	83	28.3		ene.			4		1		e.	o	o	mod.	ene.	clear.
Schr. Ajax, N. 36° 33′ W. 75° 28′†	30.13	765.3				se.			1		4		se.	o	o	sm'h	se.	fair.
Schr. Anna A. Holton, N. 24° 26′, W. 79° 29′†	30.01	762.2	86	30.0		se.			3		3		s.	o	o	sm'h	s.	clear.
Bk. Anna Thormann, S. 6° 10′ E. 105° 47′	29.84	757.9	81.0	27.2	88	sse.			3	1c		ne.		o	o			misty.
S. S. Antonio Lopez, Santander, Spain*	30.04	763.0	63	17.2	72	wnw.			6		5			16 h'r	16 h'r	long	nw.	squally.
Schr. Asa Eldridge, Punta Rassa, Fla†	30.15	765.8				ne.			2		5		sse.	1 h'r	1 h'r			fair.
Bk. Aureola, N. 22° 20′, W. 58° 59′*†	30.24	768.1	90?	32.2?		ese.			2		3		ene.	o	o	light	e.	clear.
Bk. B. F. Watson, N. 6° — W. 24° 32′†	30.00	762.0	80	26.7		s.			3		7		s.	10 h'r	10 h'r	mod.		cloudy.
Bk. Bergenseren, N. 39° 32′. W 12° 20′†	30.26	768.6				n.			4		5		n.	rain	rain	4	nnw.	fair.
Bk. Bremen, N. 47° 27′, W. 47° 40′*†	30.01	762.2				sw.			3		9		wsw.	o	o	r'gh	cross	cloudy.
S. S. Burswell, N. 39° 14′, W. 37° 47′*†	30.30	769.6	80	26.7		s.			3		3		s.	o	o	str'g	wnw.	clear.
Bk. Cato, Hudiksvall, Sweden*†	29.90	759 4				sw.			4									cloudy.
Bk. Celestina, N. 32° 37′, W. 37° 36′*†	30.24	768.1				e.			2		3		e.	o	o	sm'h		clear.
S Dora, S. 34° 15′, W. 28° 36′†	29.85	758.2	71.6	22.0		wnw.			6–7		10 n		nw.	sq 'lls	sq 'lls	high	nw.	raining.
Schr. Edith R. Seward, N. 39° 10′, W. 76° 24′*†	30.08	764.0	80	26.7		nne.			1		7		ne.	o	o	sm'h		cloudy.
S. E. J. Spicer, N. 47° 04′, W. 16° 25′*	30.30	769.6	64	17.8		w.			5		5		w.	o	o	mod.	n.	fair.
Bk. E. L. Pettingill, N. 36° 45′, W. 158° 00′†	30.50	774.7				ene.			2		1		e.	o	o	sm'h		
S. Enoch Train, Bremerhaven, Ger†	29.70	754.4				wsw.			3		10		wsw.					showery.
Bk. Essex, Aden, Arabia*†	29.89	759.2	90	32.2		s.			6		3		sw.	o	o			fine.
Bk. Franklin, N. 54° 45′, E. 13° 50′*†	29.83	757.7				sw.			4		2?			o	o	sm'h		cloudy?
Bk. Freya, N. 46° 33′, W. 29° 13′			72	22.2		s.			4		0			o	o	long	ene.	clear.
S. Glendon, N. 28° 20′ W. 47° 00′†	30.17	766.3	87	30.6		se.			2		9		se.	o	o	sm'h		fair.
Bk. Godefroy, N. 15° 39′ W. 26° 41′	30.05	763.3	78.8	26.0	90	nw.			4–5		4		nw.	o	o	mod.	sw.	fair.
S. Grecian, N. 6° 00′, E. 108° 00′*†	29.84	757.9	83	28.3		calm			0		3		e.	2 h'r	2 h'r	sm'h		clear.
Bk. Gronsvaer, N. 5° 35′, W. 19° 00′†	30.00	762.0				s.			6		5		sw.	3 h'r	3 h'r	mod.	s.	misty.
Bk. Hattie G. McFarland, Bath, Maine*†	30.14	765.5	62	16.7		ne.			3		1		ne.	o	o			clear.
Schr. Henry Denison, N. 19° 00′, W. 74° 40′†	29.96	761.0				e.			6		4		e.				e.	fair.
Bk. Horace Scudder, N. 22° 17′ W. 64° 45′†	30.21	767.3	84	28.9		e.			1		8			o	o	light	e.	
S. Ivy, S. 55° 05′, W. 62° 00′†	30.23	767.8	37	2.8		sw.			1		10		ssw.	o	o	sm'h	wsw.	foggy.
S. Ismir, N. 17° 26′, E. 115° 50′†	29.95	760.7				nne.			1		3		nne.	o	o	sm'h		fine.
Schr. Jennie N. Huddell, N. 40° 20′, W. 73° 15′†	30.03	762.7	73	22.8	90	e.			1		10		ne.	o	o	short	se.	threatening.
Schr. John L. Thomas, N. 19° 35′, W. 74° 32′*†	30.24	768.1				se.			1		0							clear.
Bg. John Wesley, Guantanamo W. I.†	29.87	758.7				n.			1		1			o	o			clear.
Bk. Joseph A. Ropes, S. 24° 15′, E. 50° 31′*†	30.41	772.4	69	20.6	75	e.			6		3		e.	o	o	mod.	e.	fair.
Bkt. Josephine, Havana, Cuba, W. I.†	29.99	761.7	84	28.9	79	calm			0		2			o	o			hazy.
Bkt. Kryolith, N. 39° 21′, W. 71° 56′*†	30.09	764.3				w.			2		2		n.	o	o	sm'h		clear.
Light House Tender, Laurel, Key West, Fla†	30.04	763.0	84	28.9		sse.			2		7		s.	o	o			fair.
S. S. Madrid, N. 45° 54′, W. 43° 49′*†	30.18	766.6	70	21.1		wsw.			3		0			3 h'r	3 h'r	r'gh	sw.	clear.
Schr Maggie Abbott, N. 19° 26′, W. 72° 43′†	30.02	762.5									4			4 h'r	4 h'r			
S. S. Malabar, N. 38° 34′, W. 170° 59′†	30.19	766.8				ssw.			6		10		sw.	10 h'r	10 h'r	mod.	s.	raining.
S. Minnie N. Gerow, N. 38° 46′, E. 60° 52′*†	29.85	758.2				nnw.			4		0					long	e.	fine.
S. M. P. Grace, N. 0° 56′, W. 115° 30′*	29.93	760.2	69	20.6		e.			3				se.	o	o	sm'h	se.	
Bk. National Eagle, Antwerp, Belgium†	29.78	756.4				s.			4		6		sw.	o	o			cloudy.
S. S. Nebo, N. 36° 59′, W. 53° 19′*†	29.88	758.9				ssw.			4		3		sw.	o	o	short	ssw.	clear.
Schr. Ocean Traveller, N. 23° 40′ W. 65° 30′†	30.13	765.3				ese.			3		1		ese.			cross		clear.
S. Oracle, N. 31° 13′, W. 45° 20′*	30.17	766.3	82	27.8	91	calm			0		3 k					mod.	sse.	clear.
S. Orealla, N. 5° 17′, W. 20° 30′	29.84	757.9				sse.			5		5		se.	7 h'r	7 h'r	long	se.	cloudy.
S. St. Francis, N. 18° 53′, W. 34° 11′†	30.01	762.2	81	27.2		calm			0		3			0.12	3.0	long	ene.	hazy.
Schr. S. B. Hubbard, Gardiner, Maine†	30.19	766.8	60	15.6		ne.			3		10			light	light			threatening
Bk. Sunbeam, N. 38° 08′ W. 14° 26′†	30.40	772.1	69	20.6	79	nne.			5		5		n.	o	o	r'gh	n.	fair.
S. S. Sunbeam, N. 50° 37′, W. 0° 17′	29.63	752.6	65	18.3	65	wnw.			5		5		wnw.			3	v.	d. clouds.
S. Sovereign of the Sea, S. 57° 00′, W. 72° 52′*†	30.06	763.5	37	2.8	100	e.			1		3			1 h'r	1 h'r	sm'h	wsw.	fair.
U.S.F.C.S.S. Fish Hawk, N. 39° 59′ W. 68° 54′†	30.27	768.8	70	21.1	79	nne.			2		1		calm	o	o			clear.
Schr. Victor Ping, N. 11° 40′, W. 73° 50′						e.			6		4		e.			r'gh	e.	fair.
Schr Viola Reppard, Savanah, Ga†	30.02	762.5	82	27.8		sse.			1		6		sse.	o	o			
Bk. Wandering Jew, Boston, Mass			66	18.9		nnw.			2		3		n.	o	o			clear.
Bg. Wauburn, N. 31° 37′ W. 76° 37′*†	30.10	764.5				sw.			2		3		w.			sm'h		¼ covered.
Bk. Warden Law, N. 37° 32′, W. 20° 22′*	30.33	770.4				nne.			4		4		nne.	o	o	sm'h	n.	fair.
S. Wm. Woodbury, N. 57° 50′, W. 16° 38′*	29.82	757.4	56	13.3	100	wnw.			7		4		wnw.			long	nw.	

International Chart I. August 26, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 27, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.02	762.4	80.8	27.1	81	s.			5		0			0	0	clear	Bouvier.
Algiers			30.00	762 0	84.9	29.4	39	nw.			3		0			0	0	clear	Thève.
La Galle			29.94	760.5	85.6	29.8	66	n.			1		3			0	0	pretty fair	Fonfrède.
Tunis			29.90	759.5															Jacques.
Saida			30.03	762.7															Perés.
Tebessa			30.01	762.2	78.4	25.8	33	n.			1		0			0	0	clear	Rigaud.
Geriville					84.9	29.4	5	w.			5		0			0	0	clear	Louchamp.
Laghouat			30.06	763.6	101.1	38.4	34	w.			1		0			0	0	clear	Abraham.
Biskra			30.04	762.9	100.0	37.8	23	nw.			4		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.94	760.5	30.03	762.7	52.3	11.3	95	calm	0	0			10			0.49	12.4	foggy	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.13	740.0	29.67	753.7	56.8	13.8	96	nw.			2		10			0.346	8.8	thnd'r storm.	Prof. Ivan Stozir.
Cracow, I. R Observatory	28.87	733.3	29.61	752.1	66.6	19.2	77	n.	2.5	1.1			10			0.583	14.8		Dr. Wierzbiski.
Eperies	28.79	731.3	29.63	752.7	69.1	20.6	83	calm			0		10 ks		n.	1.740	44.2		Julius Mikolik.
Gratz	28.51	724.2	29.74	755.4	58.1	14.5	86	nw.			4		10			1.181	30.0		Andreas Rospini.
Hermannstadt	28.34	719.7	29.66	753.3	87.1	30.6	36	s.			4		0			0.402	10.2		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.49	723.6	29.81	757.2	55.9	13.3	93	wnw.			1		10			0.295	7.5	raining	The Staff.
Lemberg	28.73	729.8	29.66	753.3	79.0	26.1	51	ne.			3		4			0.134	3.4		Dr. T. Stanecki.
Pola	29.54	750.3	29.65	753.0	73.2	22.9	77	sse.			2		10			0.142	3.6		I. R. Hydrographic Office.
Szathmar	29.15	740.4	29.59	751.5	85.3	29.6	52	s.			3		2			0.406	10.3		Joseph Midlinszay, S. J.
Szegedin	29.27	743.5						s.			4		6			0.079	2.0	thnd'r storm	Karl Stancel.
Trieste	29.57	751.1	29.67	753.7	58.6	14.8	78	ne.			3		10			0.717	18.2		Royal Academy.
Vienna	29.07	738.4	29.78	756.5	55.4	13.0	91	w.			2		10			0.583	14.8	raining	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.54	750.3	29.64	752.8	59.0	15.0	70	nw.	13	5.8			7			0.030	0.8	gloomy	W. Boswell
Armagh, Observatory	29.55	750.6	29.78	756.4	57.0	13.9	82	w.	3	1.3			10					gloomy	S. Call.
Bidston, Liverpool Obs'y			29.74	755.4	57.0	13.9	78	w.	29	13.0			9					overcast	John Hartnup.
Bolton, Sharples	29.19	741.4	29.72	754.9	54.7	12.6	86	w.	18	8.0			8					d. clouds	Thomas Mackereth.
Bradford, Yorkshire																0	0		McLandsborough & Preston
Bridgetown, Barbadoes	29.94	760.5	29.98	761.5	80.0	26.7	86	se.			3		8					overcast	Corpl. J. Surgenor, A. H.C.
Cardington			29.75	755.6	61.0	16.1	78	nw.			1.0		10					overcast	John McLaren.
Chatham, School M. E.	29.65	753.1	29.77	756.1	59.4	15.2	76	nw.			1		10					gloomy	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.64	752.8	29.87	758.7	61.6	16.4	70	wsw.			2		9					overcast	The Staff.
Fort Napier, Natal	27.64	702.0	29.85	758.2	84.0	28.9	37	ne.			1		0					blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.72	754.9	29.95	760.7	81.0	27.2	74	w.			1		6					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	29.99	761.7	30.04	763.0	78.5	25.8	84	e.			3		0					blue sky	Corpl. F. Norris, A. H.C
Glasgow, Observatory	29.38	746.2	29.58	751.3	61.7	16.5	66	wnw.			4		7 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.61	752.1	29.78	756.4	60.5	15.8	70	w.			1		10					overcast	The Staff.
Guernsey	29.60	751.8	29.90	759.4	60.4	15.8	75	wnw.			2		5					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.75	755.6	29.79	756.7	61.7	16.5	61	wnw.	10	4.5			10					misty	The Staff.
Leicester, Museum	29.50	749.3	29.75	755.6	59.0	15.0	73	nw.			1		10					overcast	J. C. Smith.
Malta, Mediterranean	29.80	756.9	29.87	758.7	83.8	28.8	81	w.			2		4					d. clouds	W. D. Ballau.
Nassau, Bahamas	30.09	764.3	30.14	765.5	86.0	30.0	72	se.			2		7					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.25	742.9	29.70	755.9	58.0	14.4	98	wsw.			3		9					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.46	748.3	29.69	754.1	60.0	15.6	70	w.			3		10					overcast	The Staff.
Plymouth	29.76	755.9	29.81	757.9	62.5	16.9	74	ssw.			3		5					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.65	753.1	56.2	13.4	77						8					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.68	753.9	29.74	755.4	79.6	26.4	69	sw.			1		0					misty	W. H. Lyne.
Sheffield	29.42	747.3	29.67	753.6	65.4	18.6	89	wsw.			1		4			0	0	d. clouds	W. F. Cooper.
Silloth Rectory	29.66	753.4	29.69	754.1	59.0	15.0	82	nw.			1		10			0.010	0.3	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.75	755.6	56.0	13.3	84	w.	18	8.0			10					overcast	I. New.
Stratfield Turgiss					61.4	16.3	77	w.			3		10					d. clouds	Rev. O. H. Griffiths, F.M.S
Truro, Royal Institution	29.83	757.7	29.84	757.9	62	16.7	77	sw.			4		10					raining	W. Newcombe.
Valencia, Observatory	29.76	755.9	29.78	756.4	58.9	14.9	84	ese.	12	5.4			10					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.07	763.8	30.11	764.8	52	11.1	74	n.	18	8.0			10 s		n.	0.055	1.4	cloudy	H. J. Cundall, C. E.
Chatham, N. B*	30.19	766.8	30.25	768.3	49	9.4	93	nw.	8	3.6		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	30.23	767.8	30.25	768.3	49	9.4	86	w.	10	4.5		0	2 s		calm	0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.07	738.4	29.85	758.2	71	21.7	90	se.	16	7.2		2 k	2 ks	se.	se.	0	0	fair	James Stewart.
Halifax, N. S*	29.96	761.0	30.09	764.3	54	12.2	80	nw.	12	5.4		10 k	0	n.		inap.	inap.	cloudy	A. Allison.
Kingston, Ontario*	29.77	756.1	30.10	764.5	68	20.0	90	e.	3	1.3			10 k		e.	0	0	cloudy	A. P. Knight, M. A.
Montreal, Quebec*	29.97	761.2	30.17	766.3	61	16.1	84	ne.	6	2.7		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.39	746.5	30.06	763.5	66	18.9	73	e.	10	4.5		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.29	744.0	29.95	760.7	70	21.1	95	e.	5	2.2		10 k	0	s.		0.06	1.5	cloudy	H. Morgan.
Port Stanley, Ontario	29.31	744.5	29.94	760.5	68	20.0	93	e.	3	1.3		2 c	5 k	e.	e.	inap.	inap.	cloudy	M. Payne.
Quebec, Quebec*	29.92	760.0	30.24	768.1	56	13.3	90	e.			5	0	5 s		e.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29 69	754 1	30.14	765.5	60	15.6	87	w.	1	0.4		0	0			0	0	clear	W. H. McIntyre.
Saugeen, Ontario*	29.33	745.0	30.03	762.7	66	18.9	65	e.	10	4.5			10 ks			0	0	cloudy	
St. Andrews, N. B	30.18	766.6	30.24	768.1	50	10.0	78	ne.	3	1.3		0	0			0	0	clear	
Sydney, C. B*	29.93	760.2	29.99	761.7	51	10.6	93	ne.	16	7.2			10 n			0.78	19.8	light rain	T. C. Hill, C. E
Toronto, Ontario*	29.03	752.6	30.00	762.0	69	20.6	93	ne.	8	3.6			10 ks		e.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.12	765.0	30.18	766.6	51	10.6	83	n.	6	2.7		2 k	0	ne.		0	0	fair	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.64	727.4	30.01	762.2	64.0	17.8	89	se.			4		10 n			0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.89?	759.2?	30.14?	765.5?	52	11.1	100	n.	4	1.8			10 n			1.54	39.1	raining	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.09	764.3	30.11	764.8	63	17.2	82	wsw.	16.1	7.2		3 ks	0			0	0	clear	C. Hansen.
Cape Town, C. G. H. Obs'y	30.13	765.3	30.16	766.1	62.0	16.7	85	wnw.	11	4.9		6	4			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CHINESE (*Sub-series*).																			
Hankow																			
Zi-Ka-Wei, near Shanghai	29.87	758.7	29.90	759.4	75.9	24.4	91	ne.	2.9	1.3			10			0.705	17.9	covered	N. Titoushkin. M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.48	748.9	29.53	750.1	64.4	18.0	57	wsw.	20	9			6						Oversergent Fischer.
Fanöe	29.52	749.7	29.54	750.2	61.2	16.2	82	wsw.			4		7						Overloerer Lauridsen
Godthaab, Greenland	30.06	763.5	30.10	764.6	35.2	1.8	96	wsw.			2		10			0.004	0.1	foggy	S. Kleinschmidt.
Ivigtut	30.06	763.4	30.08	763.9	40.5	4.7		nw.			2		10					foggy	
Stykkisholm, Iceland	29.78	756.3	29.82	757.4	42.8	6.0	84	e.			7		8						A. O. Thorlacius.
Thorshavn	29.62	752.3	29.65	753.2	53.1	11.7	78	n.	7	3			8						Overloerer Bergh.
Vestervig	29.39	746.5	29.48	748.8	59.9	15.5	83	w.			4		9						Loerarer Oesterbol.
FRENCH.																			
Agen, Normal School	29.48	748.9	30.13	765.4	56.8	13.8	95	ene.			1		8		w.	0	0	very cloudy.	M. Labroue, Director.
Alençon, Normal School	29.39	746.5	29.94	760.5	63.7	17.6	86	sw.			1		kn	s.	s.	0	0		M. Nicot, Director.
Arras, Engineer School	29.56	750.8	29.81	757.2	61.7	16.5	79	w.			3		kn			0.098	2.5		M. Fénéon, Command't.
Avignon, Normal School	29.85	758.3	29.93	760.3	72.0	22.2	46	n.			2		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.36	745.7	29.90	759.5	63.5	17.5	68	sw.			1		9		w.	0.039	1.0	covered	M. Saillard, Director.
Beauvais, Normal School	29.60	751.8	29.85	758.3	64.4	18.0	63	nw.			2		8		nw.	0.059	1.5	very cloudy	M. Frère Eugène Maris.
Besançon, Normal School	29.02	737.2	29.90	759.4	64.8	18.2	72	s.			1		10		w.	0	0	covered	M. Gobin, Director.
Bordeaux, Observatory	29.81	757.2	30.07	763.7	63.3	17.4	66	nw.			2		8		w.	0.197	5.0	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.43	747.4	29.97	761.2	61.7	16.5	69	wsw.			1				wsw.	0.295	7.5		M. Malet, Director.
Brest, Naval Observatory	29.73	755.1	29.97	761.2	62.6	17.0	83	sw.			2		10		sw.	0.012	0.3	raining	M. de Kermaree, Dir.
Caen, Normal School	29.80	756.8	29.87	758.7	56.5	13.6	86	w.			1		5		w.	0.028	0.7	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.36	745.8	29.67	753.7	62.1	16.7	83	wsw.			1		5	wsw.	w.	0.354	9.0	cloudy	M. Jadot, Director.
Charleville, Normal School	29.31	744.4	29.81	757.2	60.6	15.9	69	nw.			1		10			0.248	6.3	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.65	727.6	29.97	761.3	63.7	17.6	53	w.			1		8			0.051	1.3	¾ covered	M. Alluard, Director.
Cluny, Normal School	29.14	740.1	29.97	761.3	63.0	17.2	53	n.			2		9		w.	0.043	1.1		M. de Villemontée, Dir.
Commercy, Normal School	28.12	714.2	29.86	758.4	64.4	18	80	w.			3		10 kn	w.	w.	0.20	5.	raining	Dr. Coulet, Director.
Gap, Normal School	27.28	692.8	29.73	755.1	66.9	19.4	51	s.			6	0	5 k		s.	0	0		M. Jeangirard, Director.
Gréasque, du Rhone	28.76	730.5	29.85	758.2	69.6	20.9	35	nw.			4		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.10	739.2	29.86	758.4	57.2	14	93	nw.			2		10 n			0.20	5.	light rain	M. Ablard, Director.
Lamballe, Normal School					63.7	17.6	80	w.			2		5		w.	0.020	0.5	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.54	750.4	30.10	764.6	64.0	17.8	72	n.			4		10			0.843	21.4	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.90	759.4	30.00	762.0	61.9	10.6	73	wsw.			2		10			0.315	8.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.94	735.0	29.98	761.5	64.4	18.0	60	wnw.			1		8		nw.	0.028	0.7	very cloudy	M. André, Director.
Mans, Normal School	29.65	753.1	29.95	760.8	63.5	17.5	69	sw.			1		5		w.	0	0	cloudy	M. Piboen, Director.
Marseille, Observatory	29.61	752.1	29.87	758.8	71.1	21.7	38	nw.			3.4		2		nw.	0	0		M. Stephan, Director.
Montlouis																			M. Cave, for Dr. Fines.
Montpellier, Normal School	29.84	757.9	29.96	761.0	72.3	22.4	42	nnw.			4		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.10	739.0	29.86	758.5	63.3	17.4	92	s.			2		10			0.185	4.7	raining	M. Hasse, Director
Nantes, Observatory	29.86	758.5	30.02	762.6	66.2	19	64	wnw.			2–3	c	9 k; kn	nnw.	wnw.	0.094	2.4		M. Larocque, Director.
Perpignan, Observatory	29.92	759.9	30.02	762.6	69.4	20.8	50	nw.	18.6	8.3			2	nw.	nw.	0.012	0.3		Dr. Fines, Director.
Pic-du-Midi, Summit	21.28	540.5			30.6	— 0.8		n.			2		10		n.	0.480	12.2	snowy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.89	733.9	29.94	760.4	64.4	18	62	s.			1		5			0	0	cloudy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.14	638.5			41.0	5.0	100	w.			4		10			0.756	19.2	foggy	M. Alluard, Director.
Rochefort, Naval Obs'y	30.01	762.2	30.04	763.0	64.8	18.2	90	wsw.			1		8	s.	wsw.	1.05	42.	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.81	757.2	30.02	762.6	65.8	18.8	70	w.			3		5		e.	0.020	0.5	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.93	709.4	30.05	763.2	57.4	14.1	73	nw.			2		10		sw.	0.319	8.1	covered	M. Seger, Director.
Rouen, Normal School	29.81	757.1	29.85	758.3	64.4	18	68	w.			1		5	sw.		0.55	14.	cloudy	M. Brotier.
Saint Maur, Observatory	29.72	754.9	29.89	759.1	64.6	18.1	70	wsw.			1		10		w.	0.354	9.0		M. Renou, Director.
Toulouse, Observatory	29.40	746.7	30.12	765.1	67.3	19.6	61	w.			4		5	nw.	sw.	0.185	4.7	cloudy	M. Baillaud, Director.
Tours	29.80	757.0	29.98	761.5	66.2	19.0	63	sw.			3		5			0.138	3.5	cloudy	M. de Tastes.
Versailles, Observatory	29.39	746.6	29.89	759.1	63.0	17.2	70	nw.			2					0.276	7.0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.60	751.9	29.89	759.3	64.2	17.9	68	wsw.			1		7		wnw.	0.126	3.2		M. Marié Davy, Director
GERMAN.																			
Ansbach	28.39	721.1	29.80	757.0	60.8	16.0	55	w.			6		7	w.		0.087	2.2		Prof. Jnedt.
Bamberg	28.95	735.2	29.79	756.7	63.7	17.6	67	w.			3	0	6 n		w.	0.039	1.0	raining	Prof. Dr. Hoh.
Berlin	29.52	749.7	29.69	754.1	68.0	20.0	45	sw.			3		6			0.087	2.2		Prof. Dr. Arndt.
Breslau	29.26	743.3	29.79	756.7	64.4	18.0	58	nw.			1		10			0.079	2.0		Royal University Obs'y.
Carlsruhe	29.41	747.0	29.84	757.9	63.0	17.2	69	sw.			4		10	sw.		0.079	2.0	raining	Albert Senz.
Cassel	28.99	730.3	29.70	754.4	63.7	17.6	71	s.			4		6	sw.		0.100	2.7		Dr. H. Möhl.
Frankfort-on-the-Main	29.43	747.0	29.80	756.8	63.3	17.4	75	ssw.			2		6			0.035	0.9		Physical Society.
Friedrichshafen	28.47	723.0	29.87	758.7	62.2	16.8	80	sw.			3		8	wsw.		0.201	5.1		Wilhelm, Chief Tel.
Hamburg	29.56	750.8	29.65	753.1	62.2	16.8	76	ssw.			4		7			0.043	1.1		E. Preller.
Kiel	29.58	751.4	29.60	751.8	62.8	17.1	68	sw.			3		7			0.264	6.7		Prof. Dr. G. Karsten
Leipsic, Astrom'l Obs'y	29.33	745.0	29.74	755.4	65.8	18.8	56	sw.			4		7	wsw.		0	0		H. Leppig, Asst.
Magdeburg	29.52	749.8	29.70	754.4	65.5	18.6	63	sw.			2	0	7 ks		sw.	0	0		Dr. Assmann.
Memel	29.69	754.2	29.74	755.4	66.9	19.4	73	sw.			3	6 cs	0			0	0		Issermann.
Munich	28.04	712.2	29.89	759.3	59.9	15.5	63	nw.			2		6	sw.		0.181	4.6		Dr. C. Lang.
Neufahrwasser	29.68	753.9	29.70	754.3	69.3	20.7	61	sw.			3		9			0	0		A. Lothes.
Neustadt, Palatinate	29.26	743.3	29.79	756.6	62.6	17.0	64	w.			2		9	w.		0.169	4.3		Dicknether.
Stuttgart	28.91	734.2	29.78	756.5	59.0	15.0	76	w.			3		8	w.		0.020	0.5		Prof. Dr. Schoder.
Wustrow	29.62	752.4	29.65	753.1	63.0	17.2	69	wsw.			4		5 s			0.165	4.2		Profs. Brandes & Reimer
GREEK.																			
Athens	29.41	746.9	29.77	756.1	89.1	31.7		sw.			1.5		0			0	0		Schmidt & Wourlisch
INDIAN.																			
Kurrachee	29.62	752.4	29.67	753.7	80.8	27.1	85	wsw.	19.0	8.5			7	w.		0.04	1.0	d. clouds	
Deesa	29.16	740.8	29.63	752.7	82.0	27.8	79	sse.	12.0	5.4			7	sse.	s.	0.02	0.5	showery	
Bombay	29.72	755.0	29.76	755.9	82.7	28.2	73	wsw.	8.0	3.6			8	wsw.	w.	0.01	0.3	d. clouds	
Poona, Yarrowda	27.90	708.6	29.74	755.5	78.9	26.1	60	sw.	20.0	8.9			8	w.	w.	0	0	d. clouds	
Trichinopoly	29.49	748.9	29.70	755.9	87.9	31.1	52	nnw.	1.0	0.4			10			0	0	overcast	
Bellary	28.24	717.2	29.68	753.8	87.5	30.8	42	w.	10.9	4.9			9			0	0	gloomy	
Belgaum	27.25	692.1	29.79	756.7	73.5	23.1	79	wsw.	8.0	3.6			4	ne.	w.	0.07	1.8	showery	
Lahore	28.85	732.8	29.57	751.0	93.1	33.9	57	calm	0	0			0			0	0	blue sky	
Roorkee	28.72	729.4	29.60	751.7	87.6	30.9	70	e.	2.5	1.1			6			0	0		
Agra	29.04	737.5	29.59	751.5	88.3	31.3	69	e.	4.0	1.8			3		e.	1.07	27.2	d. clouds	
Nagpur	28.62	727.1	29.66	753.5	78.7	25.9	82	s.	8.0	3.6			10		sw.	0.05	1.3	overcast	
Jubbulpore	28.31	719.1	29.65	753.0	84.4	29.1	67	calm	2.9	1.3			9		n.	0.03	0.8	overcast	
Lucknow	29.25	742.9	29.62	752.3	85.1	29.5	78	calm	2.1	0.9			5		e.	0	0	blue sky	
Allahabad	29.30	744.3	29.61	752.1	86.6	30.3	81	calm	0	0			4			0	0	d. clouds	
Patna	29.48	748.8	29.66	753.4	87.6	30.9	72	ssw.	4.0	1.8			6	ssw.	sw.	0	0	d. clouds	
Hazaribagh	27.68	703.1	29.67	753.6	81.6	27.6	75	sse.	7.4	3.3			10	e.	w.	0	0		
Cuttack	29.62	752.4	29.70	754.4	83.0	28.3	82	s.	3.2	1.4			4			0	0	d. clouds	
Calcutta, Alipore	29.70	754.5	29.73	755.0	79.1	26.2	92	s.	8.0	3.6			10			0.07	1.8	drizzling	
Dhubri	29.59	751.5	29.70	754.5	82.5	28.1	85	calm	1.2	0.5			9	ne.		0.55	14.0	d. clouds	
Chittagong	29.68	754.0	29.77	756.2	80.7	27.1	88	ssw.	3.5	1.6			8			0	0	d. clouds	
Sibsagar	29.37	746.1	29.71	754.6	83.9	28.3	85	sw.	2.0	0.9			10	w.	w.	0.04	1.0	overcast	
Jeypore	28.18	715.7	29.60	751.8	84.4	29.1	81	ssw.	2.6	1.2			7		ssw.	0.79	20.1	d. clouds	
Zanzibar, Africa	30.03	762.7			83.2	28.4	68	s.	6.9	3.1			5		sse.	0	0	d. clouds	
ITALIAN.																			
Udine	29.31	744.5	29.71	754.6	63.7	17.6	66	n.	0.7	0.3			10			1.047	26.6		Prof. Giovanni Cloelig.
Milan	29.19	741.5	29.09	754.1	72.9	22.7	52	sw.	6.3	2.8			4	nne.		1.673	42.5		Prof. Schiaparelli.
Padua	29.70	754.4	29.81	757.1	68.5	20.3	53	ene.	9.4	4.2			7	nw.		0.055	1.4		Prof. Dott. Lorenzoni.
Moncalieri	28.82	732.0	29.69	754.2	75.2	24.0	31	s.	1.8	0.8			1			0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Genoa	29.51	749.5	29.69	754.2	75.2	24.0	48	nw.	4.9	2.2			2			0.087	2.2		Prof. G. M. Garibaldi
Mondovi	27.85	707.4	29.69	754.0	70.7	21.5	29	se.			2		0			0	0		Prof. D. C. Bruno
Pesaro	29.64	752.8	29.69	754.0	64.8	18.2	84	n.	18.1	8.1			10	w.		2.169	55.1		Prof. Luigi Guidi.
Florence	29.46	748.2	29.70	754.4	72.5	22.5	68	s.			2		5	wnw.		0.594	15.1		Prof. Costantino Pitter.
Leghorn	29.56	750.9	29.65	753.0	72.9	22.7	64	w.	4.3	1.9			0	w.		0.094	2.4		Prof. P. Monte
Rome	29.54	750.3	29.71	754.6	79.5	26.4	46	wsw.	12.5	5.6			4			0.490	12.6		Prof. P. Tachini.
Lecce	29.51	749.5	29.75	755.6	82.9	28.3	57	wsw.	11.2	5.0			9	w.		0	0		Prof. C. de Giorgi.
Cosenza	28.97	735.9	29.82	757.5	84.2	29.0	72	wsw.	2.5	1.1			9	sw.		0.031	0.8		Prof. D. Conti.
Cagliari	29.68	753.8	29.87	758.6	75.9	24.4	30	nw.			6		1	nw.		0.016	0.4		Prof. A. Pacinotti.
Palermo	29.65	753.1	29.89	759.2	82.6	28.1	34	wnw.	8.1	3.6			8	wsw.		0.028	0.7		Prof. G. Ciaccia-tore.
Syracuse	29.74	755.6	29.79	756.7	88.9	31.6	42	nne.	9.4	4.2			2	wnw.		0	0		Prof. Vincenzo Guilian
Sub-series.																			
Naples, S. R	29.29	744.0	29.80	756.8	77.7	25.4	55	sw.	15.4	6.9			4			0.051	1.3		Prof. T. Brioschi.
Stelvio	22.04	559.8			41.7	5.4	58	e.			2		10			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.09	560.9			43.5	6.4	68	ne.			2		8			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.88	758.9	29.92	759.9	68.1	20.1	88	s.	1.0	0.4		0	8 ck		w.	0	0	fair	K. Ogawa.
Hakodate	29.88	758.9	29.89	759.2	69.0	20.6	76	calm	0	0			8			0	0	cloudy	
Hiroshima, I. M. Obs'y																			
Kioto	29.71	754.6	29.88	758.9	72.0	22.2	86	sw.	2.6	1.2		0	7 ck		sw.	0.996	25.3	fair	S. Takehayashi.
Nagasaki, I. M. Obs'y	29.69	754.2	29.89	759.1	77.8	25.4	83	s.	3.3	1.5		6 cs	4 s		s.	0.020	0.5	cloudy	M. Fojima.
Nemuro	29.94	760.5	30.01	762.2	71.5	21.9	93	ne.	9.0	4.0		0	6			0	0		
Niigata	29.86	758.4	29.89	759.2	69.5	20.8	85	calm	0	0		8 cs;c	2 s	s.		0	0	cloudy	M. Morita.
Nobiru	29.90	759.4	29.92	759.8	72.3	22.4	75	s.	9.1	4.1		2ck;cs	0			0	0	fair	H. Midzushima.
Osaka	29.84	757.9	29.85	758.2	77.0	25.0	85	wnw.	0.7	0.3		2 ck	7ks;ck		s.	0	0	cloudy	
Supporo					64.5	18.1	90	sw.	1.8	0.8			9			0	0	overcast	
Tokei Obs'y, Yeddo	29.85	758.1	29.92	760.0	73.3	22.9	86	ssw.	7.7	3.4		2 cs;c	0	ssw.		0	0	clear	The Staff.
Wakayama	29.83	757.7	29.88	758.9	76.6	24.8	82	calm	0	0		7	0			0	0	fair	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	30.06	763.5	30.26	768.6	68.3	20.2	72	ese.	21.0	9.4		1 ck	3 n;k		ese.	0.06	1.5	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.72	602.6	29.95	760.6	61.3	16.3	92	calm	0	0		0	1 k		ne.	0.051	1.3	clear	Prof. Vicente Fernandez.
Leon.†	24.37	619.0	30.01	762.2	61.5	16.4	90	nw.			1	4 c	1 k	se.		0	0	½ cloudy	Prof. M. Leal.
Mazatlan	29.74	755.4	30.00	761.9	77.0	25.0	84	n.	1.6	0.8		9 cs	0			0	0	very cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.15	587.9	30.17	766.2	55.0	12.8	83	calm				0	0			0.016	0.4	fine	The Staff.
Morelia	24.25	616.0	30.33	770.3	59.5	15.3	62	e.			3	4	4	s.	s.	0	0	cloudy	M. Tena, M. D
Orizaba																			
Pabellon, Aguascalientes	23.99	609.3	29.97	761.2	60.4	15.8	97	calm			0	1 c	2 k	ne.	ne.	0	0	clear	Prof. M. M. Cházaro.
Puebla, Catholic Institute	23.42	594.6	30.20	767.2	50.0	10.0	93	calm			0	0	3			0.042?	1.07	clear	M. Y. de Leon, M. E
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	22.62	574.4	30.21	767.4	57.5?	12.0?	77	e.	5.7	2.5		0	1 s			imp.	imp.	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.76	755.8	29.76	755.8	64.2	17.9		w.			4					0.071	1.8		
Groningen	29.59	751.5	29.64	752.9	59.0	15.0		w.			3					0.252	6.4		
Helder	29.65	753.0	29.65	753.0	59.9	15.5		w.			4					0.067	1.7		
Hellevoetsluis	29.71	754.7	29.71	754.7	60.3	15.7	81	wsw.			3					0.331	8.4		
Utrecht	29.65	753.2	29.70	754.4	63.1	17.3	75	w.			3		8			0.673	17.1	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.35	745.6	29.42	747.2	60.8	16.0	66	s.	7	3			4			0	0	raining	
Brono	29.46	748.2	29.50	749.2	60.1	15.6	68	calm	0	0			10						
Christiania	29.22	742.3	29.37	745.9	63.9	17.7	72	n.	2	1			9			0.382	9.7		
Gjæsvær	29.65	753.1	29.67	753.7	65.8	18.8		se.			6		2						
Lodingen	29.48	748.7	29.52	749.9	62.6	17.0	64	calm			0		9			0	0		
PORTUGUESE.																			
Angra, Azores					74.1	23.4	74	se.	9.4	4.2			1			0	0		Dr. J. A. Sampaio
Campo Major	29.11	739.4	30.07	763.8	80.2	26.8	21	ene.	3.8	1.7			3			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.12	765.1	30.21	767.3	72.9	22.7	60	sw.	7.4	3.3			4			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.82	757.3	30.17	766.3	69.8	21.0	39	n.	23.7	10.6			0			0	0		The Staff.
Ponta Delgada, Azores	30.32	770.2	30.39	772.0	74.8	23.8	62	se.	3.8	1.7			4			0	0		
Saint Paul de Loando	29.81	757.2	30.02	762.4	69.4	20.8	91	ene.			1		3	nne.		0	0		
Serra da Estrella	25.46	646.6	30.10	764.6	59.4	15.2	39	se.	6.9	3.1			0			0	0		
RUSSIAN.																			
Akmolinski	28.59	726.1	29.59	751.5	82.8	28.2	38	sw.	4	2		8 ck	0			0.008	0.2		Major K. Lasarew.
Archangel	29.90	759.4	29.92	759.9	62.8	17.1	62	calm	0	0		0	2 ks			0	0		Capt. Sseliwerstow.
Astrakhan	30.00	762.0	29.92	759.9	91.8	33.2	32	wsw.	2	1		2 ck	0			0	0		Capt. Wisganow.
Barnaul	29.33	744.9	29.80	757.0	72.3	22.4	57	nw.	2	1			4			0	0	light clouds	Meteorological Obs'y.
Dorpat	29.51	749.5	29.74	755.5	57.0	13.9	97	sse.	4	2			10 n			0.047	1.2		Observatory.
Ekaterinburg	28.62	720.9	29.56	750.7	57.9	14.4	91	sw.	11	5			10			0.315	8.0	raining	Meteorological Obs'y.
Irkutsk																			
Kasan	29.58	751.3	29.84	757.9	70.0	21.1	42	wnw.	16	7		0	8 k			0	0		Observatory.
Kertch	29.79	756.7	29.81	757.2	84.4	29.1	59	nne.	18	8		0	0			0	0		Lagorio & Sastyrez.
Kieff	29.15	740.4	29.74	755.5	81.7	27.6	39	sse.	18	8		1 c	0						Observatory.
Lugan	29.72	754.9	29.91	759.8	88.2	31.2	45	ene.	4	2			1			0	0		Meteorological Obs'y.
Moscow	29.53	750.1	29.98	761.6	69.8	21.0	49	s.	7.8	3.5		0	7 ks						Meteorological Obs'y.
Nikolaiev	29.78	756.3	29.85	758.1	91.8	33.2	49	s.	9	4		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor.																			Lieut. Iwanow.
Pekin, China	29.75	755.6	29.89	759.2	73.9	23.3	72	calm	0	0		0	0			0	0		Physical Observatory.
St. Petersburg	29.84	757.9	29.85	758.2	63.7	17.6	62	sse.	11	5			10 n			0.035	0.9		Central Physical Obs'y.
Semipalatinsk	29.08	738.6	29.68	753.8	91.4	33.0	32	calm	0	0			5			0	0		Major Lasarew
Tashkend, Laboratory	28.22	716.7	29.68	753.9	85.3	29.6	46	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.53	724.7	29.85	758.3	91.6	33.1	38	s.	9	4		0	0			0	0		Physical Observatory.
Vladivostock	29.80	756.8	29.80	758.5	67.6	19.8	93	se.	4	2		3 ck	0						
Warsaw	29.32	744.7	29.72	755.0	68.9	20.5	61	calm	0	0			9 k						Astronomical Obs'y.
Wilna	29.34	745.3	29.75	755.6	67.6	19.8	81	sw.	2	1			10			0.181	4.6		Berg, Assistant.
Yeniseisk	29.61	752.0	29.89	759.2	53.1	11.7	63	w.	7	3			1			blank	blank		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.70	754.4	54	12.2	93	nw.			0		10	nw.				showery	J. Youngclause.
North Unst			29.51	749.5				nw.			4		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.86	758.4	29.96	761.0	74.5	23.6	72	sw.	2.0	0.9		0	2			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.16	766.0	30.22	767.5	65.5	18.6	73	nw.	3.8	1.7			10			0.213	5.4	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.22	691.3	30.15	765.8	62.1	16.7	55	n.	3.4	1.5		0	2			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.90	708.7	30.07	763.8	71.1	21.7	57	ne.	4.5	2.0		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.87	758.8	30.01	762.3	85.6	29.8	45	wsw.	1.0	0.7		1	4	e.		0	0	clouds	Olayo Diaz, Director
Oviedo	29.38	746.3	30.26	768.5	60.8	16.0	67	e.	8.0	3.6		0	0 n			0	0	cloudy	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.31	744.5	30.19	766.9	68.5	20.3	62	sw.	5.6	2.5			10			0.004	0.1	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.98	761.5	30.05	763.2	79.0	26.1	81	sse.	0	0		ck	0			imp.	imp.	clear	Benito Vines, S. J.
Manila, Philippine Islands	29.84	757.9	29.89	759.3	83.6	28.7	80	ese.	2.2	1.0		2 c	5 kn			0	0	threatening	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.94	760.4	30.03	762.8	81.0	27.2	30	w.	5.2	2.3		0	1		w.	0	0		Capt. C. Pujazon R. N.
San Juan de Porto Rico, W.I	29.97	761.2	30.06	763.5	84.2	29.0	85	se.	15.7	7.0		7 cs	4 k	e.	se.	0.315	8.0	d. clouds	Manuel Mnese.
Tuguegarao, Philippine Id's	29.76	755.9	29.90	759.4	81.5	27.5	83	nw.	5.9	2.6		1 cs	0			0	0	clear	José L. Yrastorza.
SWEDISH																			
Haparanda	29.69	754.2	29.73	755.2	62.6	17.0	80	s.			2		10			0.535	13.6		
Umea	29.60	751.7	29.65	753.0	59.4	15.2	85	sse.			6		10			0.970	24.8		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Hernosand	29.45	748.1	29.50	749.4	57.6	14.2	92	s.			4		10			0.012	0.3		
Stockholm	29.32	744.7	29.50	749.2	64.4	18.0	70	s.			2		7			0.150	3.8		
Wisby	29.48	748.9	29.54	750.4	64.0	17.8	67	sw.			4		5			0.213	5.4		
Sub-series.																			
Upsala	29.36	745.7	29.45	747.9	62.6	17.0	82	s.	13.4	6.0			6		ssw.	0.075	1.9		S. G. Fineman.
SWISS.																			
Geneva	28.56	725.3	29.96	761.0	60.8	16.0	66	wnw.			2		10			0.157	4.0	covered	The Observatory
TURKISH.																			
Constantinople			29.80	757.0	81.9	27.8	65	ene.	9	4.0			0			0	0		The Observatory.
Valona			29.93	760.1	83.7	28.7		s.			2		2			0	0	slightly cl'dy	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.78	756.4	86.9	30.5	64	w.			1	0	0			0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.10	764.5	30.18	766.6	67	19.4	63	s.	7	3.1			10 s		sw.	0	0	cloudy	J. O. Barnes.
Alpena, Michigan	29.40	745.7	30.04	763.0	69	20.6	89	e.	4	1.8		0	0			0.01	0.3	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.11	637.8	29.83	757.7	60	15.6	72	e.	1	0.4		0	4 s			0	0	fair	W. O. Barnes.
Assinnaboine, Ft., Montana	27.21	691.1	29.96	761.0	45	7.2	49	s.	7	3.1		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.84	732.5	29.99	761.7	70.5	21.4	92	s.	8	3.6			10 s			0.29	7.4	cloudy	H. Hall.
Atlantic City, New Jersey	30.03	762.7	30.04	763.0	71	21.7	94	e.	20	8.9			10 n			1.91	48.5	light rain	Jas. M. Watson.
Augusta, Georgia	29.85	758.2	30.04	763.0	74	23.3	90	se.	2	0.9		5 ck	3 ks	sw.	se.	0.43	10.9	cloudy	John Healy.
Baltimore, Maryland	29.99	761.7	30.04	763.0	69	20.6	93	ne.	4	1.8			10 n		e.	0.16	4.1	light rain	Robert Seyboth.
Barnegat, New Jersey	30.08	764.0	30.10	764.5	73.0	22.8	100	w.	13	5.8			10 n			1.47	37.3	heavy rain	G. A. Hill.
Bennett, Fort, Dakota	28.25	717.5	29.79	756.7	80	26.7	49	se.	7	3.1		3 k	7 s	se.	se.	0	0	cloudy	A. Pritchard.
Benton, Fort, Montana	27.22	691.4	30.01	762.2	47	8.3	58	calm	0	0		0	0			0	0	clear	S. Wheaton.
Behring Island, Behring Sea	30.22	767.6	30.24	768.1	52.5	11.4		s.	17	7.6			fg.			0	0	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.00	711.2	29.75	755.6	79	26.1	49	e.	12	5.4		0	8 s		sw.	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.19	766.8	30.22	767.6	64	17.8	84	se.	8	3.6		3 cs	6 ks	nw.	n.	0	0	cloudy	J. T. Elker.
Boise City, Idaho	27.13	689.1	29.88	758.9	49	9.4	71	ne.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.08	764.0	30.24	768.1	58.0	14.4	82	e.	4	1.8		0	8 s		sw.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.90	759.4	29.94	760.5	80.7	27.1	88	calm	0	0		4 c	2 ks			0	0	fair	M. McCarty.
Buffalo, New York	29.26	743.2	29.99	761.7	68.2	20.1	87	ne.	5	2.2		3 cs	6 s	ne.	ne.	0.06	1.5	cloudy	Clarence Weaver.
Buford, Fort, Dakota	27.89	708.4	29.83	757.7	67	19.4	57	n.	14	6.3		7 cs	0	nw.		0.09	2.3	fair	A. H. Bell.
Burlington, Vermont	29.87	758.7	30.16	766.1	64.5	18.1	80	se.	3	1.3		0	0			0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.58	751.3	29.97	761.2	70.7	21.5	91	ne.	8	3.6		0	0			0.01	0.3	clear	W. H. Ray.
Campo, California	27.43	696.7	29.93	760.2	49.7	9.8	86	n.	1	0.4		0	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	30.01	762.2	30.03	762.7	75	23.9	90	s.	8	3.6		3 ck	6 s	sw.		0	0	cloudy	A. K. Alderson.
Cape May, New Jersey	29.99	761.7	30.02	762.5	71.3	21.8	90	e.	24	10.7			10 n		e	1.76	44.7	light rain	W. E. Smith.
Cape Mendocino	29.46	748.3			55	12.8	93	n.	16	7.2		0	fg.			0	0	clear	J. R. Williams.
Cedar Keys, Florida	30.04	763.0	30.06	763.5	75	23.9	97	nw.	4	1.8			10 n			0.36	9.1	light rain	F. W. Mixer.
Champaign, Illinois	29.15	740.4	29.94	760.5	67.3	19.6	89	ne.	9	4.0			fg.			0.16	4.1	dense fog	L. A. Welsh.
Charleston, S. Carolina	29.96	761.0	30.01	762.2	79	26.1	88	sw.	3	1.3		6 c	3 s		sw.	0.18	4.6	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.14	740.1	29.96	761.0	72.0	22.2	90	sw.	5	2.2			10 s		sw.	0.64	16.3	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.16	740.7	29.97	761.2	73.0	22.8	94	sw.	3	1.3		1 k	4 ks	sw.	sw.	1.02	25.9	fair	B. L. Goulding.
Cheyenne, Wyoming	24.13	612.9	29.83	757.7	56.2	13.4	55	w.	0	2.7		0	1 s			0	0	clear	E. McGovern.
Chicago, Illinois	29.28	743.7	29.97	761.2	70.8	21.6	91	n.	8	3.6			10 n		ne.	0.27	6.9	light rain	J. Mitchell.
Chincoteague, Virginia	30.00	762.0	30.02	762.5	76	24.4	97	s.	7	3.1			10 s			0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.26	743.2	29.90	759.4	71.5	21.9	89	n.	3	1.3			10 s		nw.	0.60	15.2	cloudy	J. F. Harrold.
Cleveland, Ohio	29.18	741.2	29.90	759.4	69.7	20.9	90	s.	3	1.3			10 s			inap.	inap.	cloudy	J. B. Newlin.
Coleman City, Texas																			L. Dorman.
Columbus, Ohio	29.05	737.9	29.88	758.9	69	20.6	93	n.	7	3.1			10 s		nw.	1.00	25.4	cloudy	D. Cuthbertson.
Concho, Texas	28.12	714.2	29.98	761.5	69	20.6	90	calm	0	0		5 cs	0	se.		0	0	fair	W. W. McConihe.
Custer, Fort, Montana	26.82	681.2	29.88	758.9	62	16.7	46	n.	6	2.7		0	3 s		calm	0	0	clear	W. B. Lamar.
Davenport, Iowa	29.40	746.7	30.03	762.7	66	18.9	90	ne.	7	3.1		6 k	0	ne.		0	0	fair	R. R. Martin.
Davis, Fort, Texas	25.21	640.3	29.86	758.4	62	16.7	84	calm	0	0		0	0			0.62	15.7	clear	J. Williams.
Dayton, Washington T'y	28.34	719.8	30.04	763.0	49	9.4	66	calm	0	0			10 s		sw.	0	0	cloudy	H. Clifford.
Deadwood, Dakota	25.34	643.6	29.77	756.1	69	20.6	73	ne.	6	2.7		5 cs	0	w.		0	0	fair	G. W. Scott.
Decatur, Texas					76	24.4	60	se.	2	0.9		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.00	762.0	30.02	762.5	70	21.1	94	e.	20	8.9			10 s		e.	0.49	12.4	cloudy	T. S. Townsend.
Denison, Texas	29.20	741.7	29.98	761.5	72.0	22.2	97	calm	0	0		0	c			0	0	clear	J. McGlone.
Denver, Colorado	24.81	630.2	29.83	757.7	66.5	19.2	54	s.	4	1.8		1 ck	0			0.01	0.3	clear	F. M. Neal.
Des Moines, Iowa	29.18	741.2	30.06	763.5	65	18.3	84	calm	0	0		0	fg.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.26	743.2	29.95	760.7	69.7	20.9	90	n.	9	4.0			10 s		n.	0.01	0.3	threatening	C. F. R. Wappenhans.
Dodge City, Kansas	27.46	697.5	29.94	760.5	70	21.1	82	s.	4	1.8		0	0			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.36	745.7	30.05	763.3	64.3	17.9	93	n.	2	0.9			fg.			0	0	dense fog	J. Harvey Smith.
Duluth, Minnesota	29.37	746.0	30.09	764.3	63	17.2	93	ne.	2	0.9			fg.			0	0	dense fog	N. B. Conger.
Eagle Pass, Texas	29.18	741.2	29.97	761.2	76.0	24.4	90	calm	0	0			10 s			inap.	inap.	cloudy	F. Belford.
Eagle Rock, Idaho	25.28	642.1	29.83	757.7	58	14.4	52	sw.	2	0.9		6 k	0	sw.		0	0	fair	J. M. Clifford.
Eastport, Maine	30.15	765.8	30.22	767.6	51.0	10.6	80	ne.	7	3.1		0	0			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.31	693.7	29.95	760.7	66	18.9	70	calm	0	0		0	0			0.31	7.9	clear	W. J. Cundall.
El Paso, Texas	26.28	667.5	29.88	758.9	69	20.6	70	e.	1	0.4		0	0			0	0	clear	J. F. Marshall
Erie, Pennsylvania	29.22	742.2	29.93	760.2	69	20.6	90	calm	0	0			10 ks		ne.	0.68	17.3	cloudy	Peter Wood.
Escanaba, Michigan	29.43	747.5	30.07	763.8	62.0	16.7	90	n.	8	3.6		0	hz.			0	0	clear	George Heathcote.
Fredericksburg, Texas																0.09	2.3		Frank Halwegler.
Galveston, Texas	29.94	760.5	29.99	761.7	81	27.2	88	sw.	4	1.8			10 ks		w.	0.04	1.0	threatening	E. O'C. Machernev.
Grand Haven, Michigan	29.34	745.2	29.98	761.5	67.0	19.4	90	n.	8	3.6		3 cs	6 s			0.22	5.6	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.29	642.4	29.86	758.4	67	19.4	81	e.	6	2.7		0	1 s			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	30.06	763.5	30.08	764.0	80	26.7	82	s.	12	5.4		6 k	3 ks	sw.		0	0	cloudy	R. M. Crawford.
Helena, Montana	25.81	655.6	29.90	759.4	60	15.6	35	w.	4	1.8		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.06	738.1	30.06	763.5	74.0	23.3	82	calm	0	0		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.57	725.7	29.91	759.7	68.2	20.1	87	se.	11	4.9		5 cs	0	sw.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.14	740.1	29.91	759.7	68	20.0	93	n.	4	1.8			10 s		n.	0.09	2.3	cloudy	O. Schutze
Indianola, Texas	29.94	760.5	29.97	761.2	80.2	26.8	88	s.	3	1.3		2 cs	2 k	n.	s.	0	0	fair	I. A. Reed.
Jacksboro, Texas	28.85	732.8	29.97	761.2	71	21.7	90	calm	0	0		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	30.00	762.0	30.04	763.0	77	25.0	85	calm	0	0		5 cs	0	w.		1.05	26.7	fair	J. W. Smith.
Keogh, Fort, Montana	27.39	695.7	29.82	757.4	66	18.9	50	n.	6	2.7		2 c	2 s;sk	sw.		0	0	fair	A. Schneider.
Keokuk, Iowa	29.35	745.5	29.98	761.5	70.5	21.4	86	ne.	3	1.3		0	0			0	0	clear	F. Z. Gosewisch
Key West, Florida	30.02	762.5	30.04	763.0	85.0	29.4	74	se.	5	2.2		2 cs	1 k		se.	0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.06	763.5	30.08	764.0	79	26.1	82	sw.	12	5.4		5 cs	4 s	w.	w.	0	0	cloudy	E. A. Beals.
Knoxville, Tennessee	28.95	735.3	29.96	761.0	69.4	20.8	96	sw.	6	2.7			10 s		sw.	1.20	30.5	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.28	743.7	30.03	762.7	68	20.0	90	calm	0	0			fg.			0	0	dense fog	S. C. Emery
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.17	740.9	30.03	762.7	68	20.0	84	calm	0	0		0	fg.			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.24	742.7	30.05	763.3	55.0	12.8	44	e.	2	0.9			10 s			0	0	cloudy	W. Bell.
Little Rock, Arkansas	29.64	752.8	29.95	760.7	74	23.3	97	nw.	4	1.8		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.60	751.8	29.99	761.7	66	18.9	84	w.	2	0.9		0	0			0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.34	745.2	29.89	759.2	70	21.1	90	n.	4	1.8			10 s			0.16	4.1	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.28	743.7	29.95	760.7	73	22.8	84	s.	4	1.8			10 n		s.	0.67	17.0	light rain	Lewis Duane.
Mackinaw City, Michigan	29.45	748.0	30.09	764.3	64.0	17.8	93	ne.	5	2.2		0	2 k		e.	0	0	clear	F. R. Day.
Macon, Fort, North Carolina	30.05	763.3	30.06	763.5	77	25.0	82	sw.	16	7.2		4 cs	6 ks	s.	sw.	0	0	cloudy	F. P. Chaffee.
Madison, Wisconsin	29.07	738.4	30.05	763.3	65	18.3	93	ne.	8	3.6		7 cs	2 s	n.	ne.	0	0	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.62	650.7			53	11.7	33	e.	6	2.7		0	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas																0.02	0.5		J. E. Thatcher.
Marquette, Michigan	29.41	747.0	30.12	765.0	65	18.3	84	nw.	5	2.2		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.63	752.6	29.96	761.0	77	25.0	82	w.	1	0.4		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.28	743.7	30.01	762.2	67	19.4	93	n.	12	5.4			10 s			0	0	cloudy	W. Line.

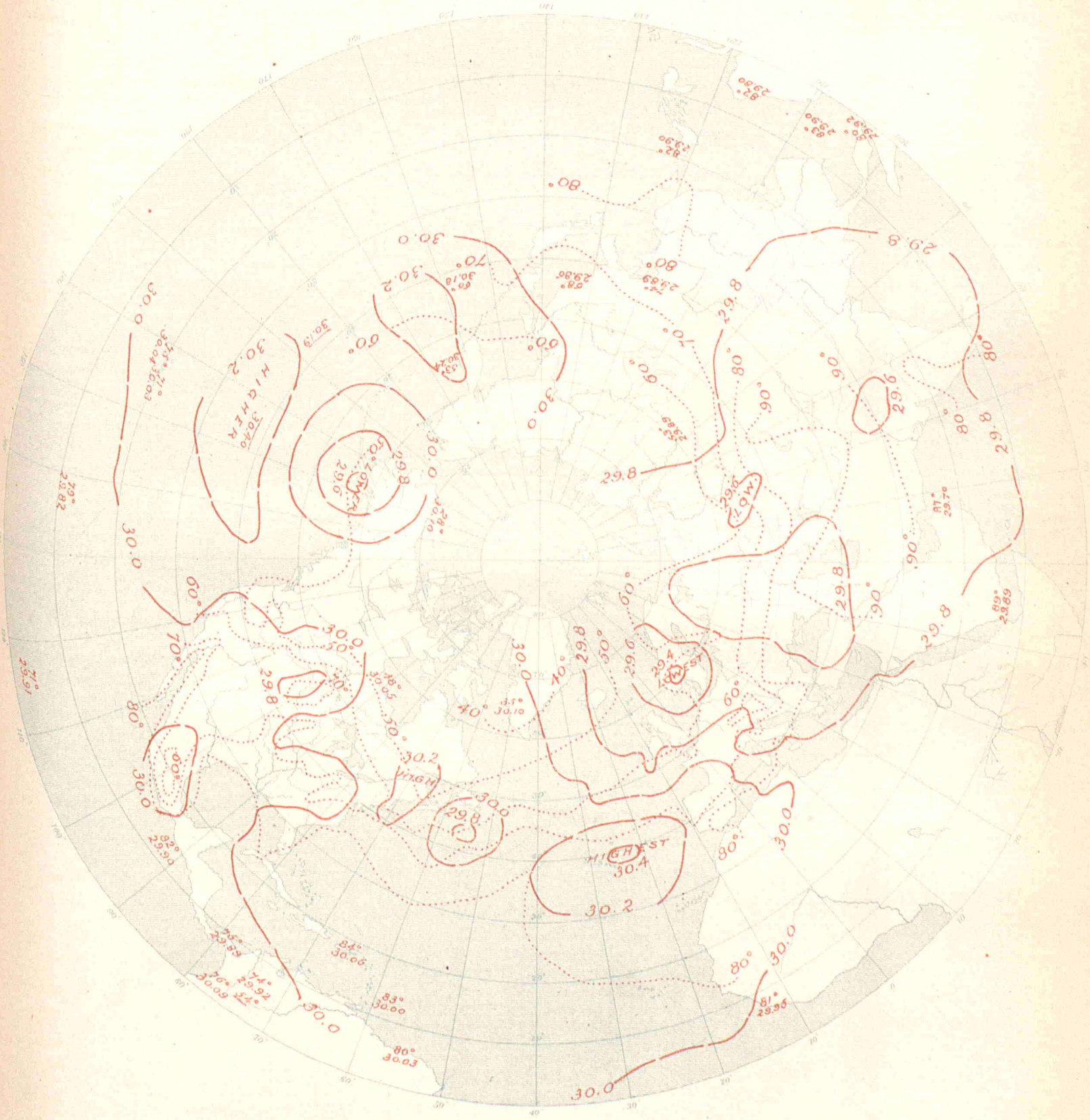
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.82	681.2	30.04	763.0	43	6.1	60	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	29.95	760.7	29.99	761.7	75	23.9	94	sw.	4	1.8	.....	3 cs	5 ks	.....	sw.	1.76	44.7	cloudy	C. A. Read.
Montgomery, Alabama	29.77	756.1	30.00	762.0	71.7	22.1	91	sw.	3	1.3	.....	.....	10 s	.....	sw.	0.68	17.3	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.98	736.1	29.95	760.7	70	21.1	76	s.	10	4.5	.....	0	0	.....	.....	0	0	clear	H. Bessant.
Morgantown, W. Virginia	28.93	734.8	29.93	760.2	69.5	20.8	91	s.	3	1.3	.....	.....	10 s	.....	sw.	3.00	76.2	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.05	610.9	30.13	765.3	39.0	3.9	70	ne.	3	1.3	.....	0	4 k; s	.....	ne.	0	0	fair	J. G. Linsley.
Nashville, Tennessee	29.37	746.0	29.93	760.2	71.5	21.9	93	w.	3	1.3	.....	0	9ks; fg	.....	w.	0.23	5.8	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.09	764.3	30.20	767.1	62	16.7	84	ne.	5	2.2	.....	.....	10 s	.....	e.	0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.19	766.8	30.24	768.1	64	17.8	84	e.	5	2.2	.....	.....	10 s	.....	e.	0	0	cloudy	J. G. Lynch.
New Orleans, Louisiana	29.93	760.2	29.98	761.5	79.5	26.4	88	sw.	1	0.4	.....	2 c	6 s	.....	sw.	0.36	9.1	cloudy	L. Dunne.
Newport, Rhode Island	30.18	766.6	30.24	768.1	63.8	17.7	79	ne.	4	1.8	.....	.....	10 s	.....	ne.	0	0	cloudy	W. McGillivray.
New York, New York	29.99	761.7	30.16	766.1	64	17.8	100	ne.	14	6.3	.....	.....	10 n	.....	ne.	0.10	2.5	light rain	J. B. Merrill.
Norfolk, Virginia	30.01	762.2	30.04	763.0	76	24.4	90	s.	9	4.0	.....	8ck; cs	0	s.	.....	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.11	688.6	29.91	759.7	64.6	18.1	73	s.	8	3.6	.....	0	2 s	.....	.....	0	0	clear	E. F. Brady.
Olympia, Washington T'y	30.15	765.8	30.19	766.8	46.5	8.1	93	calm	0	0	.....	0	fg.	.....	.....	0.19	4.8	clear	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	30.08	764.0	30.10	764.5	28.0	— 2.2	99	nne.	14	6.3	.....	.....	10 n	.....	ne.	0.01	0.3	light snow	P. H. Ray.
Omaha, Nebraska	28.91	734.3	30.05	763.3	72.2	22.3	84	se.	1	0.4	.....	0	0	.....	.....	0	0	clear	A. Pollak.
Oswego, New York	29.74	755.4	30.06	763.5	66.0	18.9	92	se.	8	3.6	.....	.....	10 s	.....	e.	0.98	24.9	cloudy	S. W. Beall.
Palestine, Texas	29.46	748.3	30.00	762.0	73.0	22.8	97	e.	1	0.4	.....	0	0	.....	.....	0.69	17.5	clear	L. M. Pindell.
Pensacola, Florida	29.97	761.2	30.00	762.0	76.3	24.6	97	s.	10	4.5	.....	.....	10 n	.....	s.	1.57	39.9	light rain	M. McGauran.
Philadelphia, Pa.	29.95	761.0	30.06	763.5	70.5	21.4	90	e.	8	3.6	.....	.....	10n; hz	.....	e.	0.50	12.7	light rain	T. F. Townsend.
Pike's Peak, Colorado	18.09	459.5	29.88	758.9	37	2.8	79	s.	5	2.2	.....	0	1 ks	.....	s.	inap.	inap.	clear	L. M. Dey.
Pioche, Nevada	24.10	612.1	29.80	756.9	62.5	16.9	70	s.	8	3.6	.....	0	2 s	.....	.....	0.20	5.1	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.10	739.1	29.89	759.2	68.5	20.3	92	e.	2	0.9	.....	.....	10 n	.....	e.	1.04	26.4	thund'r st'm	J. B. Turton.
Poplar River, Montana	27.74	704.6	.....	.....	.....	.....	.....	n.	.....	.....	6	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	29.99	761.7	30.00	762.0	80.0	26.7	91	sw.	9	4.0	.....	0	0	.....	.....	0.20	5.1	clear	M. Hermann.
Port Huron, Michigan	29.30	744.2	29.96	761.0	67.8	19.9	93	ne.	7	3.1	.....	.....	10 s	.....	.....	0.11	2.8	cloudy	W. O. Bailey.
Portland, Maine	30.16	766.1	30.21	767.3	58.5	14.7	83	w.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.08	764.0	30.15	765.8	48.0	8.9	93	calm	0	0	.....	0	2 s	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	80	26.7	79	s.	13	5.8	.....	0	8 ks	.....	s.	0	0	cloudy	F. S. Coburn.
Prescott, Arizona	24.87	631.7	29.85	758.2	59	15.0	84	s.	1	0.4	.....	0	0	.....	.....	0.16	4.1	clear	J. Mc N. Wright.
Provincetown, Mass.	30.20	767.1	30.24	768.1	61	16.1	84	ne.	3	1.3	.....	3 cs	3 s	.....	.....	0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	30.01	762.2	30.02	762.5	78	25.6	89	e.	8	3.6	.....	3 ck	7 ks	calm	sw.	0.02	0.5	cloudy	W. J. Evans.
Red Bluff, California	.....	.....	.....	.....	.....	.....	.....	w.	.....	.....	1	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.73	755.1	29.97	761.2	82	27.8	79	se.	6	2.7	.....	7 cs	0	s.	.....	0	0	fair	H. S. Miles.
Rochester, New York	29.37	746.0	30.02	762.5	67	19.4	84	se.	23	10.3	.....	10 k	hz.	se.	.....	inap.	inap.	cloudy	E. W. McGann.
Roseburg, Oregon	29.58	751.3	30.12	765.0	45.2	7.3	83	e.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. J. Nanry.
Sacramento, California	29.83	757.7	29.90	759.4	56.8	13.8	74	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.40	746.7	29.98	761.5	68.5	20.3	97	n.	6	2.7	.....	.....	10 s	.....	n.	inap.	inap.	cloudy	J. H. Webber.
St. Paul, Minnesota	29.20	741.7	30.04	763.0	70.0	21.1	84	calm	0	0	.....	0	hz.	.....	.....	0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	29.02	737.1	29.87	758.7	69	20.6	90	e.	11	4.9	.....	2 cs	0	.....	.....	0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.64	651.2	29.83	757.7	66	18.9	70	se.	4	1.8	.....	2 k	0	sw.	.....	0.06	1.5	clear	J. Craig.
San Antonio, Texas	29.30	744.2	29.99	761.7	77.5	25.3	90	e.	2	0.9	.....	5 ck	2 s	.....	.....	0	0	fair	T. J. Kenan.
San Diego, California	29.90	759.4	29.97	761.2	68.2	20.1	78	nw.	1	0.4	.....	.....	10 s	.....	.....	inap.	inap.	cloudy	A. C. Dobbins.
Sandusky, Ohio	29.24	742.7	29.90	759.4	72	22.2	90	e.	11	4.9	.....	.....	10 s	.....	.....	0.65	16.5	cloudy	M. H. Perry.
Sandy Hook, New Jersey	30.11	764.8	30.14	765.5	67.0	19.4	100	e.	24	10.7	.....	.....	10 n	.....	e.	0.11	2.8	heavy rain	B. A. Blandon.
San Francisco, California	29.90	759.4	29.98	761.5	53	11.7	86	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	N. Gerom.
Santa Fé, New Mexico	23.38	593.8	29.86	758.4	64	17.8	48	e.	14	6.3	.....	0	0	.....	.....	0	0	clear	H. U. Jones.
Savannah, Georgia	29.95	760.7	30.04	763.0	78	25.6	85	sw.	4	1.8	.....	6 ck	3 ks	.....	.....	0.01	0.3	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.41	670.8	29.94	760.5	39	3.9	65	w.	6	2.7	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.74	755.4	29.97	761.2	74	23.3	90	calm	0	0	.....	0	fg.	.....	.....	0.30	7.6	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.79	731.3	29.97	761.2	68.5	20.3	95	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. Cleary.
Silver City, New Mexico	24.36	618.7	29.82	757.4	56	13.3	67	s.	4	1.8	.....	0	0	.....	.....	0.03	0.8	clear	J. B. Wallace.
Sitka, Alaska	30.00	762.0	30.06	763.5	52.5	11.4	93	e.	4	1.8	.....	.....	10 ks	.....	e.	0	0	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.51	749.5	29.97	761.2	71.2	21.8	95	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.00	762.0	30.04	763.0	79	26.1	88	sw.	15	6.7	.....	6 cs	1 k	w.	.....	0	0	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.05	712.5	30.05	763.3	46	7.8	71	calm	0	0	.....	10 cs	0	.....	.....	0	0	cloudy	D. Moore.
Springfield, Illinois	29.32	744.7	29.98	761.5	66.5	19.2	92	n.	5	2.2	.....	.....	10 s	.....	n.	0.27	6.9	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.10	764.5	30.23	767.8	62.0	16.7	78	se.	2	0.9	.....	.....	10 s	.....	.....	0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.60	726.4	29.99	761.7	67	19.4	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Marbury.
Starkville, Miss.	29.49	749.0	29.96	761.0	77.1	25.1	85	sw.	2	0.9	.....	1 ck	2 ks	.....	w.	0.02	0.5	clear	M. J. Wright, jr.
Stevenson, Fort, Dakota	27.93	709.4	29.71	754.6	71	21.7	70	se.	6	2.7	.....	0	3 ks	.....	.....	0.05	1.3	clear	W. Burrows.
Stockton, Fort, Texas	27.01	686.0	29.95	760.7	65.0	18.3	93	e.	4	1.8	.....	0	2 s	.....	calm	0	0	clear	J. O'Dowd.
Thomas Camp	27.22	691.4	29.84	757.9	75	23.9	64	w.	.....	.....	1	1 cs	1 k	s.	s.	0	0	clear	
Thatcher's Island, Mass.	30.18	766.6	30.23	767.8	59.3	15.2	78	calm	0	0	.....	3 k	0	w.	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.24	742.7	29.91	759.7	71	21.7	90	n.	10	4.5	.....	.....	10 s	.....	ne.	0.21	5.3	cloudy	A. Buell.
Tucson, Arizona	27.58	700.5	29.92	760.0	73	22.8	84	n.	1	0.4	.....	0	5 ks	.....	.....	0	0	fair	J. L. Whiteside.
Umatilla, Oregon	29.75	755.6	30.11	764.8	58	14.4	57	w.	5	2.2	.....	0	8 s	.....	w.	0	0	cloudy	J. Daly.
Uvalde, Texas	29.00	736.6	29.94	760.5	78	25.6	90	s.	4	1.8	.....	.....	10 s	.....	w.	0.01	0.3	cloudy	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	69	20.6	66	nw.	.....	.....	1	5 cs	0	sw.	.....	0	0	fair	D. Brooks.
Vicksburg, Mississippi	29.74	755.4	29.98	761.5	75	23.9	97	nw.	2	0.9	.....	0	4k; s	.....	nw.	0.42	10.7	fair	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.52	622.8	29.86	758.4	61.0	16.1	54	s.	2	0.9	.....	.....	10ks; n	.....	w.	0	0	threatening	T. M. Ambler.
Washington, D. C.	29.90	759.4	30.01	762.2	69.7	20.9	95	ne.	4	1.8	.....	.....	10 n	.....	ne.	0.53	13.5	light rain	F. M. M. Beall.
West Las Animas, Colorado	26.08	662.4	29.83	757.7	59	15.0	87	ne.	5	2.2	.....	0	0	.....	.....	0	0	clear	F. H. Brandenburg.
Williamsport, Pa.	29.43	747.5	30.01	762.2	66.5	19.2	88	e.	11	4.9	.....	.....	10 n	.....	e.	0.62	15.7	heavy rain	B. F. Hough.
Wilmington, N. Carolina	29.98	761.5	30.03	762.7	80	26.7	82	sw.	5	2.2	.....	9 k	0	.....	.....	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.63	651.0	29.86	758.4	50	10.0	54	sw.	5	2.2	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.73	729.7	30.00	762.0	69	20.6	78	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. H. Atfield.
Yuma, Arizona	29.73	755.1	29.87	758.7	82.0	27.8	80	calm	0	0	.....	0	4 s	.....	.....	0	0	fair	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.05	560.1	.....	.....	54.0	12.2	82	calm	0	0	.....	.....	10s; n	.....	se.	0.14	3.6	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	29.99	761.7	30.00	762.0	83	28.3	78	ne.	.....	.....	.....	0	3 ks	.....	.....	0	0	clear	J. A. Racker.
Buenaventura, U. S. C.	30.06	763.5	30.09	764.3	76	24.4	95	s.	2	0.9	.....	.....	10 ks	.....	s.	0.40	10.2	cloudy	J. I. Plume.
Havana, Cuba	29.98	761.5	30.04	763.0	79	26.1	82	se.	2.4	1.1	.....	0	0	.....	.....	0.13	3.3	clear	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Robert Johnston.
Magua, San Domingo, W. I	.....	.....	.....	.....	71	21.7	.....	calm	.....	.....	0	0	0	.....	.....	0	0	.....	S. M. Pike.
Navassa, W. I.	29.89	759.2	29.97	761.2	82	27.8	78	ne.	4	1.8	.....	0	2 ks	.....	ne.	0	0	clear	F. M. Everett.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	80	26.7	78	se.	.....	.....	2	3 c	4 k	e.	e.	0	0	.....	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.36	745.7	29.92	760.0	74	23.3	94	calm	.....	.....	0	.....	10 ks	.....	calm	0.90	22.9	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	78.5	25.8	92	ne.	.....	.....	2	0	4 ks	.....	ne.	0.16	4.1	fair	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.45	748.0	29.51	749.5	48	8.9	93	nw.	.....	.....	2	0	6 k	.....	.....	0.62	15.7	fair	W. J. Fisher.
St. Thomas, W. I.	29.97	761.2	30.10	764.5	82	27.8	72	e.	.....	.....	.....	2 c	3 k	e.	e.	0	0	fair	Aug. Walloe.
York Factory, B. A.	29.99	761.7	30.05	763.3	48.0	8.9	92	w.	10	4.5	.....	1 c	1 s	nw	w	0	0	fair	Ferlesone & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, N. 40° 03′ W. 26° 48′	30.40	772.1	76.5	24.7	74	ese.			1–2		7							d. clouds.
H. M. S. Alexandra, Port Said, Egypt	29.81	757.2	82	27.8	82	nnw.			2		0							misty.
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.19	766.8	70.5	21.4	87	sse.			1		1					1	nw.	misty.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.84	757.9	75	23.9		n.			2		3	nne.						d. clouds.
H. M. S. Arab, Muscat, Arabia	29.60	751.8	86.5	30.3	75	ne.			1		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.15	765.8	63.5	17.5		nw.			2		3							d. clouds.
H. M. S. Comus, Esquimalt, Vancouver Island	30.14	765.5	48	8.9	85	calm			0		4							d. clouds.
H. M. S. Diamond, S. 25° 36′, E. 154° 45′	30.25	768.3	68	20.0	74	ese.			3		1					1	se.	blue sky.
H. M. S. Dido, N. 17° 55′, W. 77° 00′	30.06	763.5	81	27.2		n.			1		0							blue sky.
H. M. Dock Yard, Bermuda, W. I.	30.07	763.8	77.5	25.3	71	nw.			1		3	nw.						d. clouds.
H. M. S. Eclipse, N. 30° 15′, E. 32° 30′	29.69	754.1	83.5	28.6		n.			2		5							d. clouds.
H. M. S. Fantome, N. 13° 04′ W. 59° 37′	30.00	762.0	83	28.3		e.			1		9	e.						raining.
H. M. S. Flying Fish, N. 37° 27′, E. 126° 33′	29.80	756.9	73.5	23.1	95	calm			0		6							d. clouds.
H. M. S. Gannet, S. 2° 12′, W. 79° 51′	29.93	760.2	68.5	20.3	84	sw.			3		10	ne.						d. clouds.
H. M. S. Griffon, N. 47° 22′, W. 52° 40′	29.99	761.7	54.5	12.5	93	nne.			4		10					7	n.	raining.
H. M. S. Iron Duke, N. 39° 10′, E. 127° 23′	29.82	757.4	71	21.7	100	ene.			1		5	ene.						d. clouds.
H. M. S. Lark, S. 1° 26′, E. 161° 59′	29.94	760.5	78.3	25.7	84	se.			2		10					2	se.	raining.
H. M. S. Liffey, Coquimbo, Chili	29.99	761.7	51	10.6		e.			1									d. clouds.
H. M. S. Magpie, N. 35° 09′, E. 128° 42′	29.80	756.9	77.3	25.2	87	ssw.			1		10							d. clouds.
H. M. S. Minotaur, off Ramleh, Egypt	29.81	757.2	81	27.2	82	nnw.			2		0							blue sky.
H. M. S. Northampton, N. 47° 35′, W. 70° 00′	30.20	767.1	52.5	11.4	96	ene.			1		1							blue sky.
H. M. S. Pegasus, N. 5° 16′, E. 115° 15′	29.80	756.9	82	27.8	91	n.			1		9							d. clouds.
H. M. S. Sappho, N. 19° 44′, W. 155° 05′	30.03	762.7	71	21.7	?	w.			1		8	ene.				2	ne.	showery.
H. M. S. Swiftsure, Coquimbo, Chili	30.21	767.3	56	13.3	93	ne.			1		2							misty.
H. M. S. Sylvia, Montevideo, Uruguay	30.25	768.3	45.2	7.3	89	nne.			2		7	calm						d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	29.96	761.0	53.5	11.9	93	ne.			3–6		10							rain & fog.
H. M. S. Triumph, S. 21° 25′, W. 40° 00′	30.23	767.8	74	23.3	85	s.			3		2	calm				2	ene.	d. clouds.
H. M. S. Woodlark, Jask, Persia	29.62	752.3	88.5	31.4	72	s.			2		0					1	s.	misty.
PORTUGUESE NAVAL.																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.05	763.3	80.6	27.0	84	ne.			2		9		ne.			1	ne.	d. clouds.
Tamega, Macao, China	29.87	758.6	86.0	30.0	82	sw.			2		0							blue sky.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.90	759.4	77	25.0	91	sse.	20	8.9			10		sse.	0.94	23.9			raining.
Navy Yard, Portsmouth, N. H.	30.28	769.1	58	14.4	88	calm	0	0			2		w.	0	0			clear.
Naval Hospital, Yokohama, Japan*	29.73	755.1	74.5	23.6	83	s.			1		1		sw.	0	0			clear.
Adams, Mare Island, Cal.			56	13.3	87	sw.			2		0			0	0	sm'h		clear.
Alaska, N. 10° 45′, W. 138° 34′	29.82	757.4	79	26.1	86	ssw.			4		10			0.15	3.8	sm'h		cloudy.
Alliance, N. 43° 30′, W. 69° 33′	30.24	768.1	62	16.7	100	nw.			2		5?			0	0	mod.		clear?
Ashuelot, Yokohama, Japan*	29.80	756.9	76	24.4	91	s.			1		2		s.					clear.
Brooklyn, Rio de Janeiro, Brazil	30.22	767.6	72	22.2	90	s.	3	1.3			5		s.	0	0	sm'h		fair.
Colorado, New York, N. Y.	30.12	765.0	65	18.3	100	calm	0	0			10			0	0			rainy.
Constellation, Chesapeake Bay*	29.99	761.7	72	22.2	71	ese.			4		10		ese.					heavy rain.
Essex, Coquimbo, Chili	30.22	767.6	54	12.2	80	calm			0		2					sm'h		hazy.
Franklin, Norfolk, Va.	30.05	763.3	76	24.4	100	s.	12	5.4			10		calm	0	0			cloudy.
Galena, S. 0° 13′, W. 28° 05′	30.03	762.7	77	25.0	95	sse			3		2		sse.			mod.	sse.	fair.
Hartford, N. 33° 03′, W. 18° 29′*	30.20	767.1	70	21.1	85	ene.			5		0			0	0	sm'h		clear.
Independence, Mare Island, Cal.	29.97	761.2	56	13.3	100	sw.			3		0			0	0			hazy.
Iroquois, N. 12° 00′ W. 92° 50′	29.90	759.4	82	27.8	79	ene.			2		2		ene.			sm'h	sse.	clear.
Kearsarge, N. 42° 20′, W. 69° 28′	30.20	767.1	62	16.7	94	nw.			3		0					sm'h		clear.
Lackawanna, Callao, Peru*	29.95	760.7	59	15.0	94	se.			1		10							cloudy.
Lancaster, N. 40° 08′, E. 13° 05′*	29.80	756.9	76	24.4	68	wnw.			5		0			0	0	mod.	wnw.	clear.
Marion, S. 34° 54′, W. 56° 13′	30.21	767.3	48	8.9	78	nne.			2		10		nw.			sm'h		cloudy.
Michigan, Marquette, Michigan	30.05	763.3	60	15.6	100	w.			1		0							clear.
Minnesota, New York, N. Y.	30.18	766.6	66	18.9	94	e.	6	2.7			10		e.					raining.
Monocacy, N. 37° 27′, E. 126° 33′	29.80	756.9	73	22.8	95	wnw.			1		10		wnw.					cloudy.
New Hampshire, Newport, R. I.	30.26	768.6	64	17.8	94	nnw.			2		10					sm'h		cloudy.
Nipsic, Messina, Sicily*	29.84	757.9	81	27.2	70	nw.			4		8		nw.			sm'h		cloudy.
Onward, Callao, Peru†	30.13	765.3	58	14.4	94	s.			2		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.81	757.2	78	25.6	86	w.			1		8		w.					fair.
Passaic, Washington, D. C.			69	20.6	95	ne.			2		10							rainy.
Pensacola, Payta, Peru*	29.92	760.0	62	16.7	83	ese.	5	2.2			8		ese.	0	0	sm'h		cloudy.
Portsmouth, Gibraltar, Mediterranean*	29.98	761.5	75	23.9	60	ese.			2		2		e.			sm'h		clear.
Powhatan, Norfolk, Va.	30.04	763.0	77	25.0	91	s.			1		8		se.					cloudy.
Quinnebaug, Alexandria, Egypt*	29.79	756.7	80	26.7	87	nnw.			3		0					sm'h		clear.
Ranger, Mare Island, Cal.	29.97	761.2	59	15.0	76	sw.			2		0			0	0			clear.
Richmond, Yokohama, Japan*	29.83	757.7	75	23.9	100	s.			3		0			0	0			clear.
Saratoga, Gibraltar, Mediterranean	29.97	761.2	69	20.6	90	e.			0–1		0			0	0	sm'h		fair.
St. Louis, League Island, Pa.	30.29	769.4	71	21.7	95	se.			3		8			0.1	3			raining.
Swatara, Sengapore, Malay*	29.72	754.9	80	26.7	87	ne.			1		10		ene.			sm'h		raining.
Tennessee, N. 43° 25′ W. 69° 44′†	30.28	769.1	64	17.8	94	nw.	12	5.4			0			0	0			fair.
Vandalia, Portsmouth, N. H*	30.20	767.1	62	16.7	72	nw.			1		0							clear.
Wabash, Boston, Mass.	30.23	767.8	61	16.1	82	calm	0	0			8		w.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska†	30.21	767.3	56	13.3	87	e.			1		10		e.	0	0	sm'h		overcast.
Wyoming, N. 32° 25′, W. 80° 03′*	30.00	762.0	78	25.6	82	ssw.	16	7.2			8		sw.	0.05	1.3	sm'h	ssw.	cloudy.
Yantic, N. 43° 27′ W. 69° 32′	30.23	767.8	64	17.8	83	nnw.			3		2					m'd.		clear.
MERCHANT MARINE.																		
ALLAN LINE.																		
S. S. Circassian, N. 55° 21′, W. 9° 40′*	29.76	755.9	47	8.3	?	n.			2		5		w.	inap.	inap.	3	w.	showery.
S. S. Grecian, Ismallia, Egypt*	29.76	755.9	97	36.1		n.			3		0			0	0			clear.
S. S. Nova Scotian, N. 42° 11′, W. 65° 25′	30.08	764.0	55	12.8		w.			3		0					sm'h		clear.
S. S. Polynesian, N. 56° 19′ W. 21° 26′*	29.40	746.7	59	15.0		sse.			6		10		wsw.	2 h'r	2 h'r	mod.	s.	overcast.
S. S. Scandinavian, N. 52° 31′, W. 27° 31′*†	29.80	756.9	55	12.8		w.			6		7		w.	6 h'r	6 h'r	high	w.	d. clouds.
S. S. Waldensian, N. 45° 25′, W. 58° 32′*	29.92	760.0	56	13.3		ne.			6		8		ne.	5 h'r	5 h'r	h'vy	ene.	cloudy.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 47° 54′ W. 40° 10′†	30.12	765.0	62	16.7		ne.			4		10		ene.	0	0	r'gh	nne.	overcast.
S. S. Indiana, Philadelphia, Pa.†	30.05	763.3	66	18.9	94	ne.			5		10		ne.					raining.
S. S. Lord Clive, Liverpool, Eng.*†	29.60	751.8				w.			4		7		w.	2 h'r	2 h'r			cloudy.
S. S. Lord Gough, Philadelphia, Pa.	30.00	762.0	72	22.2		e.			6		10		ne.	h'vy	h'vy			raining.
S. S. Ohio, N. 53° 18′, W. 4° 32′†	29.02	737.1	57	13.9	100											h'vy	nw.	
AMSTERDAM LINE.																		
S. S. Stella, N. 45° 22′, W. 41° 18′	30.06	763.6	75.2	24		ese.			1		9		ssw.	0	0	3	sw.	overcast.
ANCHOR LINE.																		
S. S. Alexandria, N. 39° 29′, W. 20° 51′	30.40	772.1	71.2	21.8		var.			1		2		n.	0	0	3	ne.	clear.
S. S. Assyria, N. 48° 57′, W. 12° 17′*	29.88	758.9	63	17.2		w.			6		10			2 h'r	2 h'r	r'gh	w.	overcast.
S. S. Bolivia, N. 40° 36′ W. 70° 40′ *†	30.20	767.1	64	17.8		e.			1		0			0	0	sm'h		clear.
S. S. Devonia, N. 44° 24′, W. 52° 56′†	29.78	759.4	62	16.7		wsw.			2		9		wsw.			long	ssw.	cloudy.
S. S. Dorian, N. 45° 04′, W. 42° 20′ *	29.91	759.7	76	24.4		ssw.			3		8		se.	0	0	mod.	nw.	cloudy.
S. S. Ethiopia, N. 58° 19′ W. 13° 00′	29.48	748.8	54	12.2	?	w.			1		7		sw.	3 h'r	3 h'r	sm'h		overcast.
S. S. Utopia, N. 43° 35′, W. 10° 23′†	30.38	771.6	70	21.1	90	sw.			3		10		sw.	0	0	sl't	nw.	overcast.
ATLAS LINE.																		
S. S. Alpin, N. 34° 38′ W. 74° 00′	30.09	764.3				s			1		5		sw.	0	0			
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 47° 21′, E. 120° 39′	29.61	752.1	49	9.4	78	nw.			5		7							misty.
S. Baroda, N. 32° 12′, W. 40° 52′	30.19	766.8	78.9	26.1	82	ene.			2		8							d. clouds.
S. S. Basil, N. 25° 18′, W. 22° 08′	30.16	766.1	73.8	23.2	85	ene.			3		5							misty.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
British Meteorological Office.—Continued.																		
S. S. British Merchant, N. 16° 41′, W. 27° 10′	29.94	760.5	81	27.2	82	ne.			4		4							d. clouds.
Bk. Caldew, S. 35° 48′ E. 48° 15′	30.39	771.9	60	15.6	88	n.			6		3							d. clouds.
S. S. City of Agra, S. 38° 50′, E. 80° 01′	29.85	758.2	55	12.8	97	wsw.			5		4							d. clouds.
S. S. Humboldt, S. 25° 10′, W. 45° 10′	30.24	768.1	69.5	20.8	79	e.			5		8					h'vy	sw.	gloomy.
S. S. Minho, S. 34° 36′, W. 58° 10′	30.23	767.8	50.6	10.3	87	ne.			2		6							d. clouds.
S. S. Oamarn, N. 42° 06′, W. 32° 40′	30.27	768.8	76.0	24.4	76	ssw.			3–4		3							d. clouds.
S. S. Rosetta, N. 12° 42′, E. 52° 53′	29.78	756.4	74.5	23.6	95	ssw.			4		0							misty.
Cunard Line.																		
S. S. Gallia, N. 43° 52′, W. 46° 01′	29.93	760.2	77	25.0	82	s.			4		2		s.	0	0	light	s.	fine.
S. S. Marathon, Lake Ismalia, Egypt	30.03	762.7	87	30.6		nnw.			1		1		nnw.	0	0	sm'h	nnw.	clear.
S. S. Scythia, N. 43° 05′, W. 54° 17′	29.71	754.6	66	18.9	90	ssw.			3		4		ssw.	1 h'r	1 h'r	sli't	ssw.	fair.
Donaldson Line.																		
S. S. Colina, N. 55° 35′ W. 10° 50′†	29.78	756.4				nw.			1		4?		nw.			long	nnw.	cloudy?
General Trans-Atlantic Company.																		
S. S. France, N. 42° 18′, W. 52° 05′ †	29.75	755.7	68.0	20.0		nw.			1	1 c		nw.		0	0		nw.	clear.
S. S. Ville de Marseilles, N. 41° 02′ W. 57° 45′*†	29.90	759.4	68	20.0		nw.			6		8		nw.	2 h'r	2 h'r	r'gh	nw.	cloudy.
Guion Line.																		
S. S. Arizona, N. 49° 21′, W. 35° 35′	30.07	763.8	55	12.8		nw.			4		10		ne.	0	0	mod.	wnw.	overcast.
S. S. Wisconsin, N. 43° 50′, W. 56° 30′	29.65	753.1	53	11.7		calm			0		10		nw.	2 h'r	2 h'r	slight	nnw.	foggy.
Hamburg American Packet Company.																		
S. S. Cimbria, N. 40° 26′, W. 70° 08′	30.21	767.3	64	17.8		e.			2		5		se.	0	0	sm h	e.	fair.
S. S. Frisia, N. 49° 30′, W. 6° 53′*	29.94	760.5	60	15.6		sse.			4		10		se.	9 h'r	9 h'r	mod.	sse.	drizzling.
S. S. Herder, N. 40° 47′, W. 55° 59′ *	29.57	751.1	78	25.6		nw.			4		4		nw.	1 h'r	1 h'r	mod.	wnw.	fair.
S. S. Silesia, New York, N. Y	30.15	765.5	65.1	18.4		ne.			7		10		se.	18½ hours				drizzling.
S. S. Vandalia, Hamburg, Germany*	29.65	753.1	59.9	15.5		wsw.			3		3		w.	0	0			fair.
S. S. Wieland, N. 49° 48′, W. 5° 09′	29.90	759.4	62	16.7		sw.			4		6		sw.	0	0	4	wnw.	misty.
Inman Line.																		
S. S. City of Berlin, N. 40° 30′, W. 70° —	30.26	768 6	65	18.3	78	ene.			4		6?		e.	0	0	sm'h		clear ?
Johnston Line.																		
S. S. St. Albans, N. 43° 18′, W. 47° — *†	30.00	762.0	70	21.1		sw.			5		9		wsw.	½ h'r	½ h'r	long	wsw.	cloudy.
Lampert and Holt's Line.																		
S. S. Hevelius, S. 2° 00′, W. 31° 00′ *†	30.25	768.3	80	26.7		sse.			6		5?		sse.	0	0	long	se.	clear.?
Leyland Line.																		
S. S. Bulgarian, N. 51° 29′, W. 16° 20′*	29.91	759.7				w.			3		10		w	10 h'r	10 h'r	mod.	wnw.	foggy.
Mallory Line.																		
S. S. Colorado, N. 38° 25′, W. 74° 31′ †	30.08	764.0	69	20.6		s.			3		8		s.	3 h'r	3 h'r	mod.	se.	cloudy.
S. S. San Marcos, N. 26° 41′, E. 87° 40′	29.97	761.2				s.												fine.
Mediterranean and New York Steamship Co.																		
S. S. Archimede, Naples, Italy*†	29.83	757.7	80	26.7	78	w.			4		5			0	0			fair.
Merchants Express Line.																		
S. S. Hermod, N. 49° 52′, W. 3° 00′†	29.90	759.4	62.6	17		w.			2		8		wsw.	0	0	sm'h		fair.
Merchant Steamship Company.																		
S. S. Glenfyne, N. 29° 20′, W. 65° 44′	29.68	753.9				calm			0		2		calm	0	0	sm'h		clear.
S. S. Glenapp, N. 19° 45′, W. 39° 30′	30.12	765.0				e.			2		3		sse.	0	0	sm'h		hazy.
Morgan Line.																		
S. S. Chalmette, N. 38° 11′, W. 74° 25′†	30.09	764.3	74	23.3		sse.			2		10			3 h'r	3 h'r	sm'h	sw.	cloudy.
National Line.																		
S. S. Denmark, N. 49° 45′. W. 9° 29′	29.78	756.4	59	15.0		wnw.			5		10			4½ h'r	4½ h'r	long	w.	raining.
S. S. England, N. 40° 39′ W. 69° 40′	30.21	767.3				e.			6		2		e.	0	0	sl't	e.	clear.
S. S. Erin, N. 40° 40′, W. 63° 30′	30.07	763.8	61	16.1	?	nnw.			5		9		nw.	2 h'r	2 h'r		n.	fine.
S. S. Helvetia, Liverpool, Eng	29.71	754.6	63	17.2		nw.			6		8		nw.	16 h'r	16 h'r			fair.
New York and Cuba Mail Steamship Company.																		
S. S. Santiago, N. 19° 45′, W. 77° 45′ †	30.02	762.5	81	27 2		ene.			3		2		e.	0	0	long	se.	fine.
New York, Havana and Mexican Mail.																		
S. S. City of Alexandria, Frontera, C. A†	29.98	761.5	81	27.2		ne.			4		2		ne.	0	0	small	ene.	fair.
S. S. City of Washington, N. 29° 37′, W. 77° 50′ *†	30.22	767.6	82	27.8		se.			2		10		s.	4 h'r	4 h'r	light	e.	squally.
New York Herald Weather Service.																		
S. S. Lone Star, N. 29° 44′ W. 79° 49′*†	30.12	765.0	79	26.1		var.			1								e.	squally.
S. S. Maas, N 48° 14′, W. 31° 08′*	29.94	760.5	65	18.3		wsw.			1							mod		fine.
North German Lloyd.																		
S. S. America, N. 49° 55′ E. 12° 08′*	29.84	757.9	62.5	16.9	94	w.			5		10		w.	5 h'r	5 h'r	cross	wnw.	light rain.
S. S. Donau, N. 49° 40′, W. 19° 57′	29.99	761.7				wsw.			3		10		wsw.	6 h'r	6 h'r	mod.	wsw.	cloudy.
S. S. Elbe, Bremerhaven, Germany	29.74	755.4	64.4	18.0	90	w.			3–4		8		w.	0	0			cloudy.
S. S. Gen. Werder, off Shinecock, N. Y	30.20	767.1				se.			4		10					sm'h		light rain.
S. S. Graf Bismarck, Rio de Janeiro Brazil	30.08	764.0	68.0	20.0		n.			2		5?		n.	2 h'r	2 h'r	light	n.	cloudy?
S. S. Habsburg, N. 41° 08′, W. 59° 19′	29.93	760.2	60.8	16.0		nnw.			6		8		nnw.	h'vy	h'vy	r'gh	nnw.	squally.
S. S. Hohenstaufen, Bremerhaven, Germany	29.62	752.3	63.5	17 5		sw.			5		10		sw.	0	0			cloudy.
S. S. Koln, N. 38° 42′. W. 65° 35′*	30.12	765.0	71.0	21.7	71	n.			5		8		nw.	0	0	mod.	n.	covered.
S. S. Kronprinz F. William, N. 52° 04′, E. 3° 37′	29.72	754.9				wsw.			5		8		sw.	10 h'r	10 h'r	light	wsw.	rainy.
S. S. Main, N. 40° 37′, W. 69° 31′	30.18	766.6	64.4	18.0		e.			2		2		e.			sm'h	e.	clear.
S. S. Neckar, N. 50° 10′, W 12° 45′	29.90	759.4	62.0	16.7	94	w.			4		10		w.	6 h'r	6 h'r	mod.	wnw.	misty.
S. S. Ohio, N. 47° 50′, W. 25° 31′	30.07	763.8				w.			4		3		w.	2 h'r	2 h'r	mod.	w.	light fog.
S. S. Salier, Bremerhaven, Germany	29.57	751.1	55.4	13.0		s.			3		8		s.	4 h'r	4 h'r			cloudy.
S. S. Strassburg, N. 44° 25′, W. 53° 44′	29.73	755.1	62.0	16.7	91	ssw.			3		10		wsw.	1 h'r	1 h'r	sm'h	wsw.	covered.
Occidental and Oriental Steamship Company.																		
S. S. Arabic, N. 41° 47′, E. 155° 58′†	30.18	766.6	66	18.9	?	sse.			4		5?		se.	0	0	mod.	s.	clear ?
S. S. Belgic, Hong Kong, China†	29.99	761.7	84	28.9	87	calm			0		0			0	0			clear.
S. S. Coptic, N. 40° 06′ W. 127° 23′	30.15	765.8	62.5	16.9	98	var.			2		6		wnw.	4 h'r	4 h'r	3	nnw.	d. clouds.
S. S. Gaelic, N. 28° 44′, E. 126° 13′†	30.02	762.5	81	27.2	96	sw.			2		8		sw.			sm'h		cloudy.
Ocean Steamship Company.																		
S. S. City of Augusta, Savannah, Ga †	30.13	765.3				sw.			1		8?		sw.	0	0			clear ?
S. S. Seminole, N. 36° 35′, W. 74° 40′ †	30.14	765.5	82	27.8	96	ssw.			4		5		sw.	0	0	mod.		fair.
Oregon Improvement Company.																		
S. S. Mississippi, Seattle, Wash. Ter.†	30.30	769.6	50	10.0	79	calm			0		9		w.					cloudy.
Oregon Railway and Navigation Company.																		
S. S. Oregon, San Francisco, Cal †	29.95	760.7	54	12.2	93	calm			0		5?							cloudy?
Pacific Coast Steamship Company.																		
S. S. Ancon, N. 33° 50′, W. 118° 39′†	29.97	761.2	67	19.4	84	e.			2		10		ese.			sm'h		cloudy.
S. S. City of Chester, San Francisco, Cal*†	29.14	740.1	53	11.7	93	nw.			1		0							clear
S. S. Idaho, Nanimo, Vancouver's Island †	30.20	767.1	48	8.9	92	nw.			3		5?		ne.	0	0			cloudy?
S. S. State of California, San Francisco, Cal.†	29.96	761.0	52	11.1	93	sw.			3		3		w.					clear.
S. S. Victoria, N. 44° 13′, W. 124° 33′ †	30.14	765.5	58	14.4	82	sse			2							sm'h		fair.
Pacific Mail Steamship Company.																		
S. S. Australia, N. 19° 00′, W. 158° 35′	30.04	763.0	75	23.9	90	ne.			3		5?		ne.	0	0	mod.	ne.	clear ?
S. S. City of New York, Sydney, N. S. W†	30.11	764.8	60	15.6	71	se.			1		5		se.	0	0			fair.
S. S. City of Pekin, N. 23° 43′, E. 118° 11′†	30.00	762.0	80	26.7	91	ssw.			3		5		sw.	0	0	sm'h		fair.
S. S. City of Tokio, N. 42° 15′, E. 166° 38′†	30.25	768.3	62	16.7	88	e.			3		8		e.	0	0	small	s.	misty.
S. S. Colima, Panama, Panama†	29.89	759.2	75	23.9	90	nnw.			2		10		e.	0	0			cloudy.
S. S. Clyde, N. 19° 47′, W. 105° 10′ †	29.99	761.7	82	27.8	87	e.			2		5?		e.	3 h'r	3 h'r	mod.	ssw.	clear ?
S. S. Grenada, N. 37° 20′, W. 122° 30′†	29.94	760.5	54	12.2	87	wnw.			1		8		nw.	0	0	long	wnw.	hazy.
S. S. Zelandia, Sydney, N. S. W	30.20	767.1	62	16.7		ne.			1		0							
Quebec Steamship Co.																		
S. S. Bermuda, Basseterre, W. I†	30.05	763.3	81	27.2		ene.					9		ene.	4 h'r	4 h'r	gentle	e.	cloudy.
S. S. Muriel, N. 31° 45′, W. 68° 26′	30.19	760.8	81	27.2		nne.			3		10			0	0	sm'h		overcast.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
RED D LINE.																		
S. S. Valencia, N. 38° 00′, W. 72° 30′*†	30.32	770.1	77	25.0	82	e.			4		10		sw	hv'y	hv'y	light	se.	squally.
RED STAR LINE.																		
S. S. Belgenland, N. 47° 16′, W. 21° 57′†	30.27	768.8	69	20.6	85	w.			6		1		w.	o	o	mod.	var.	hazy.
S. S. Nederland, N. 49° 44′, W. 31° 50′†	30.02	762.5	55	12.8	93	wnw.			4		10		nne.	o	o	mod.	wsw.	cloudy.
S. S. Pennland, N. 40° 22′, W. 71° 03′	30.19	766.8				e.			4		10		ene.	o	o	light	e.	overcast.
S. S. Vaderland, N. 50° 32′ W. 1°, 52′	29.75	755.6	65	18.3	73	w.			4		10		w.	2 h'r	2 h'r	cross	w.	cloudy.
S. S. Waesland, Antwerp, Belgium	29.70	754.4	67	19.4	69	wsw.			4		8		wsw.	2 h'r	2 h'r			fair
ROTTERDAM LINE.																		
S. S. Edam, Off Beachy Head, Eng	29.77	756.1	89.5	31.9	91	w.			6		9			o	o			squally.
S. S. Schiedam, N. 48° 43′, W. 18° 25′	29.95	760.7	68.0	20.0	89	wsw.			6		10			4 h'r	4 h'r	r'gh	w.	hazy.
S. S. W. A. Scholten, Rotterdam, Holland*	29.54	750.3	65.0	18.3	89	sw.			4		8		sw.	rain	rain			cloudy.
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, N. 26° 00′, W 74° 26′	30.10	764.5	84	28.9		ese.			2		2		e.	o	o	g'tl	ese.	fine.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.44	747.8	60	15.6		se.			3		10		se.	4 h'r	4 h'r			raining.
S. S. State of Georgia, N. 55° 11′ W. 11° 42′†	29.74	755.4	54	12.2		calm			0		10			o	o	mod.	n.	overcast.
S. S. Indiana, N. 43° 25′, W. 59° 02′†	29.94	760.5	59	15.0		nnw.			6		4		n.	4 h'r	4 h'r	hv'y	nne.	threatening.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 50° 07′. W. 38° 24′†	30.32	770.1	57 2	14.0	94	n.			3		5?		n.	o	o	r'gh	n.	clear.?
WARREN LINE.																		
S. S. Iowa, Off Ballycottin, Ireland*†	29.94	760.5	60	15.6		sse.			2		7		sse.	o	o	sm'h		cloudy.
WHITE STAR LINE.																		
S. S. Adriatic, N. 41° 33′, W. 54° 49′*†	29.97	761.2	70	21.1	85	wsw.			5		5		wsw.	o	o	mod.	sw.	fair.
S. S. Britannic, N. 51° 05′, W. 11° 28′†	29.87	758.7	63	17.2	83	n.			3		10		e.	6 h'r	6 h'r	mod.	w.	foggy.
S. S. Celtic, Liverpool, Eng†	29.65	753.1	61	16.1	88	w.			5		8		w.	sh'rs	sh'rs			showery.
S. S. Republic, N. 49° 33′, W. 35° 36′†	30.18	766.6	57	13.9	81	wnw.			5		7		nw.	8 h'r	8 h'r	mod.	nw.	d. clouds.
WILSON LINE.																		
S. S. Otranto, N. 43° 03′, W. 62° 51′†	30.19	766 8	60	15.6		wnw.			4		8		wnw.			long	wnw.	cloudy.
S.S. Romano, N. 42° 25′ W. 39° 00′	30.07	763.8	78	25.6		sw.			4		7		sw.	o	o	mod.	sw.	overcast.
S. S. Salerno, N. 49° 29′, W. 25° 03′*	29.74	755.4	70	21.1		w.			6		10		w.	o	o	mod.	w.	dense fog.
WINSOR LINE.																		
S. S. Catherine Whiting, Fire Island, N. Y.†	30.20	767.1	68	20.0		ese.			2				w;e	h'vy	h'vy	sharp	e.	raining.
MISCELLANEOUS.																		
Bk. Adelaide, N. 13° 25′. W. 47° 26*†	30.10	764.5	84	28.9		ese.			3		1		sse.	3 h'r	3 h'r	mod.	e.	clear.
Schr. Ajax, N. 35° 50′ W. 75° 16′†	30.19	766.8				s.			1		5		s.	o	o	sm'h	s.	fair.
Schr. Anna A. Holton, N. 23° 31′ W. 80° 48′†	30.03	762.7	86	30.0		se.			1		3			o	o	sm'h	s.	clear.
Bk Anna Thormann, S. 6° 03′, E. 105° 54′	29.87	758.8	81.0	27.2	81	sw.			3		10 k		sw.	o	o			misty.
S. S. Antonio Lopez, Santander, Spain*	30.16	766.1	68	20.0	73	nw.			6		4			sq 'lls	sq'lls	long	nw.	fair.
Schr. Asa Eldridge, Punta Rassa, Fla†	30.16	766.1				sse.			3		8		ssw.	1 h'r	1 h r			cloudy.
Bk. Aureola, N. 23° 34′ W 60° 47′*†	30.27	768.8	90?	32.2?		ene.			2		2		e.	o	o	light	e.	clear.
Bk. B. F. Watson, N. 5° 13′ W. 23° 29′†	30.00	762.0	80	26.7		se.			5		6		s.	4 h'r	4 h'r	h'vy	s.	fair.
Bk Bergenseren, Lisbon, Portugal†	30.07	763.8				n.			6		hz.		n.	o	o	5	n.	clear.
Bk Bremen, N. 46° 12′ W. 48° 30′*†	29.98	761.5				se.			5		10		wsw.	8 h'r	8 h'r	cross		cloudy.
S. S. Burswell, N 37° 57′, W. 41° 40′*†	30.20	767.1	81	27.2		s.			3		3		s.	o	o	str'g	w.	clear.
Bk. Cato, Hudiksvall, Sweden*†	29.85	758.2				ese.			4									cloudy.
Bk. Celestina, N. 34° 01′, W. 37° 36′*†	30.21	767.3				ese.			1					o	o	sm'h		clear.
S. Dora, S. 34° 55′ W. 24° 10′†	30.01	762.2	62.6	17.0		ssw.			5		5 ks		nnw.	2 h'r	2 h'r	high	sw.	fair.
Schr. Edith R. Seward, N. 38° 32′ W. 76° 24′*†	30.09	764.3	77	25.0		ese.			1		9		sse.	6 h'r	6 h'r	sm'h		cloudy.
S. E. J. Spicer, N. 47° 52′, W. 12° 07′*	30.00	762.0	66	18.9		wnw.			6		10		nw.	12 h'r	12 h'r	mod.	nw.	overcast.
Bk. E. L. Pettingill, N. 38° 09′, W. 155° 09′†	30.50	774.7				sse.			4		1		s.	o	o	sm'h		
S. Enoch Train, Bremerhaven, Ger†	29.87	758.7				ssw.			3		4		ssw.	o	o			fine.
Bk. Essex, Aden, Arabia*†	29.89	759.2	89	31.7		ssw.			4		2		ssw.	o	o			
Bk. Franklin, Swinemunde, Prussia*†	29.92	760.0				ssw.			3		2			o	o			fair.
Bk. Freya, N. 47° 29′, W. 24° 42′			68	20.0		wsw.			5		fg.			2 h'r	2 h'r	mod.	w.	foggy.
S. Glendon, N. 28° 03′ W. 47° 00′†	30.13	765.3	87	30.6		sse.			2		9		sse.	o	o	sm'h		fair.
Bk. Godfrey, N. 13° 20′, W. 27° 20′	29.92	760.0	78.3	25.7	95	ene.			2		5		e.	sh'rs	sh'rs	mod.	nw.	fair.
S. Grecian, N. 5° 00′, E. 107° 10′*†	29.90	759.4	83	28.3		ssw.			6		10			2 h'r	2 h'r	sm'h		raining.
Bk. Gronsvaer, N. 5° 30′ W. 17° 40′†	30.03	762.8				s.			5		3		s.	o	o	mod.	s.	fair.
Bk. Hattie G. McFarland, N. 40° 48′, W. 69° 26′*†.	30.24	768.1	60	15.6		ene.			1		5?		ene.	o	o			cloudy.?
Schr. Henry Denison, N. 18° 00′, W. 76° 44′†	29.96	761.0				e.			6		0					sm'h	e.	fair.
Bk. Horace Scudder, N. 24° 43′. W. 65° 16′†	30.28	769.1	82	27.8		ene.			2		8		e.	o	o	long	ne.	
S. Ivy, S. 54° 15′, W 57° 34′†	30.26	768.6	37	2.8		sw.			3		10		sw.	o	o	sm'h		foggy.
S. Ismir, N. 17° 34′ E. 116° 16′†	29.94	760.5				ne.			1		3		ne.	o	o	sm'h		fair.
Schr. Jennie N. Huddell, Cape May, N. J†	29.98	761.5	73	22.8	100	e.			3		10		e.	h'vy	h'vy	short	se.	stormy.
Schr. John L. Thomas, N. 18° 32′, W. 75° 45′*†	30.14	765.5				ne.			1		2		ene.	o	o	short	se.	fine.
Bg. John Wesley, Guantanamo, W. I†	29.91	759.7				n.			1		0			o	o			clear.
Bk. Joseph A. Ropes, S. 20° 58′, E. 51° 09′*†.	30.32	770.1	72	22.2	80	e.			5		3		e.	o	o	mod.	e.	fair.
Bkt. Josephine, Havana, Cuba, W I†	30.03	762.7	84	28.9	79	calm			0		0			½ h'r	½ h'r			clear.
Bk. Kryolith, N. 40° 27′, W. 71° 16′*†	30.20	767.1				e.			4		8			12 h'r	12 h'r	sm'h		overcast.
S. S. Laurel, Key West, Fla.†	30.09	764.3	86	30.0		sse.			1–2		5		s.	o	o			fair.
S. S. Madrid, N. 44° 17′, W. 47° 12′*†	30.08	764.0	68	20.0		se.			5		8		wsw.	o	o	mod.	w.	overcast
Schr. Maggie Abbott, N. 19° 26′, W. 72° 43′†	30.03	762.7									3			3 h'r	3 h'r			
S. S. Malabar, N. 38° 24′, W. 175° 15′†	30.19	766.8				sw.			3				sw.	o	o	mod.	s.	hazy.
S. Minnie N. Gerow, N 39° 35′, E. 1° 55′*†	30.02	762.5				nnw.			4		2		n.			long	n	fine
S. M. P. Grace, N. 3° 43′, W. 116° 50′*	29.91	759.7	71	21.7		se.			3				se.	o	o	short	se.	
Bk. National Eagle, Antwerp, Belgium†	29.81	757.2				sw.			3		6		sw.	o	o			cloudy.
S. S. Nebo, N. 37° 02′, W. 57° 13′*†	29.88	758.9				w.			4		5		w.	1 h'r	1 h'r	short	w.	clear.
Schr. Ocean Traveller, N. 22° 08′, W. 65° 13′†	30.13	765.3				e.			4		4		e.			mod.	se.	fair.
S. Oracle, N. 31° 06′, W. 45° 16′*	30.18	766.6	82	27.8	91	calm			0		2 k					mod.	sse.	clear.
S. Orealla, N. 4° 08′, W. 20° 35′*	29.98	761.5				sse.			5		6		sse.	o	o	long	sse.	clear.
S. St. Francis, N. 17° 42′ W. 33° 47′†	29.96	761.0	81	27.2		ene.			6		7		ene.	o	o	long	ene.	overcast.
Schr. S. B. Hubbard, Gardiner, Me†	30.28	769.1	60	15.6		calm			0		10			o	o			dense fog.
Bk. Sunbeam, N. 37° 51′ W. 12° 20′†	30.30	769.6	68	20.0	79	nne.			6		5		nne.	o	o	r'gh	nne.	fair.
S. S. Sunbeam, N 50° 05′ W. 4° 32′	29.87	758.7	60	15.6	76	w.			5		6		w.			3	w.	d. clouds
S. Sovereign Of The Sea, S. 57° 50′ W. 75° 48′*†.	29.83	757.7	40	4.4	100	nw.			4		10		nw.	o	o	chop	wsw.	foggy.
U.S.F.C.S.S. Fish Hawk, N. 41° 24′ W. 70° 56′†	30.39	771.9	66	18.9	83	ese.			2		8		se.	o	o			cloudy
Schr. Victor Ping, Santa Marta, U. S. C.						e.			2		4		e.					fair.
Schr. Viola Reppard, Savannah, Ga†	30.02	762.5	82	27.8		sw.			2		5		sw.	o	o			
Bg. Wauburn, N. 33° 30′, W. 75° 45′*†.	30.10	764.5				s			5		4		sse.			sm'h		¼ covered.
Bk. Warden Law, N. 35° 30′, W. 21° 40′*	30.38	771.6				ne.			2				nne.	o	o	sm'h	nne.	fair.
S. Wm. Woodbury, N. 56° 47′, W. 17° 55′*	29.74	755.4	58	14.4	87	sse.			6		6		ne.			long	nw.	

International Chart I. August 27, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 28, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.02	762.6	82.4	28.0	67	sw.			3		3			0	0	pretty fair	Bouvier.
Algiers			30.03	762.8	81.3	27.4	53	ne.			2		0			0	0	clear	Thève.
La Calle			30.01	762.2	77.7	25.4	67	ne.			3		4			0	0	cloudy	Fonfrède.
Tunis			29.98	761.5															Jacques.
Saida			30.04	763.1															Perés.
Tebessa			30.05	763.3	77.4	25.2	26	ne.			1		1			0	0	very fair	Rigaud.
Geriville					91.8	33.2	10	nw.			4		0			0	0	clear	Lonchamp.
Laghouat			30.09	764.3	96.4	35.8	26	n.			1		0			0	0	clear	Abraham.
Biskra			30.08	763.9	89.6	32.0	33	sw			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.85	758.2	29.94	760.5	51.1	10.6	90	ssw.	9	4.0			10			0	0	dull	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.36	745.8	29.89	759.2	70.9	21.6	51	sw.			3		3			0	0		Prof. Ivan Stozir.
Cracow, I. R Observatory	28.94	735.1	29.69	754.2	59.7	15.4	64	w.	10.5	4.7			10			0.240	6.1		Dr. Wierzbiski.
Eperies	28.90	734.0	29.75	755.7	61.9	16.6	80	calm			0		10 n			0	0		Julius Mikolik.
Gratz	28.65	727.7	29.86	758.5	64.4	18.0	77	w.			2		6			0.476	12.1		Andreas Rospini.
Hermannstadt	28.37	720.5	29.75	755.6	65.1	18.4	62	nw.			4		4			0.276	7.0	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.57	725.7	29.89	759.3	57.2	14.0	85	w.			2		10			0.205	5.2		The Staff.
Lemberg	28.70	730.4	29.72	754.8	62.4	16.9	73	e.			4		10			0	0		Dr. T. Stanecki.
Pola	29.84	758.0	29.95	760.8	72.9	22.7	58	ssw.			1		3			0	0		I. R. Hydrographic Office.
Szathmar	29.30	744.1	29.74	755.4	59.0	15.0	89	sw.			4		10			0.150	3.8		Joseph Midlinszky, S. J.
Szegedin					70.2	21.2	64	sw.			2		6			0	0		Karl Stancel.
Trieste	29.87	758.7	29.97	761.3	69.8	21.0	55	calm			0		2			0	0		Royal Academy.
Vienna	29.17	740.8	29.86	758.5	64.8	18.2	59	w.			4		2			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.41	747.0	29.51	749.5	58.7	14.8	67	s.	12	5.4			7			0.200	5.1	d clouds	W. Boswell
Armagh, Observatory	29.27	743.4	29.50	749.3	57.1	13.9	91	wsw.	8	3.6			8					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.60	751.8	57.2	14.0	77	sse.	13	5.8			10					overcast	John Hartnup.
Bolton, Sharples	29.07	738.4	29.60	751.8	55.0	12.8	77	s.	12	5.4			10					raining	Thomas Mackereth.
Bradford, Yorkshire	29.24	742.7	29.64	752.8	58.0	14.4	62	w.			2		8			0.23	5.8	d. clouds	McLandsborough & Preston
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	80.0	26.7	90	ne.			2		8					overcast	Corpl. J. Surgenor, A. H. C.
Cardington			29.70	754.4	63.6	17.6	80	sw.			2.0		10					overcast	John McLaren.
Chatham, School M. E.	29.63	752.6	29.76	755.9	63.4	17.4	63	sw.			1		8					d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.54	750.3	29.77	756.1	63.0	17.2	83	wsw.			4		9					overcast	The Staff.
Fort Napier, Natal	27.88	708.1	30.09	764.3	71.0	21.7	49	n.			1		1					blue sky	Corpl. F. Milner, A. H. C.
Free Town, Sierra Leone	29.70	754.4	29.93	760.2	76.0	24.4	90	sw.			1		7						Sergt. John Robinson.
Gibraltar, Mediterranean	30.06	763.5	30.11	764.8	75.0	23.9	92	e.			3		3					blue sky	Corpl. F. Norris, A. H. C
Glasgow, Observatory	29.28	743.7	29.48	748.8	54.5	12.5	83	ese.			1		10					raining	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.57	751.1	29.74	755.4	64.5	18.1	62	ssw.			1		10					overcast	The Staff.
Guernsey	29.53	750.0	29.82	757.4	68.5	20.3	58	sw.			1		9					overcast	A. Collenette, F. M. S.
Kew, Observatory	29.71	754.6	29.75	755.6	63.3	17.4	67	ssw.	14	6.3			10					threatening	The Staff.
Leicester, Museum	29.42	747.3	29.67	753.6	60.5	15.8	68	sw.			2		10					overcast	J. C. Smith.
Malta, Mediterranean	29.91	759.7	29.99	761.7	78.6	25.9	90	nw.			3		0					blue sky	W. D. Ballau.
Nassau, Bahamas	30.06	763.5	30.10	764.5	86.5	30.3	66	se.			1		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.18	741.2	29.70	754.4	56.8	13.8	100	s.			4		10					raining	Warren Middleton.
Oxford, Radcliffe Obs'y	29.50	749.3	29.73	755.1	61.9	16.6	68	s.			3		10					overcast	The Staff.
Plymouth	29.69	754.1	29.77	756.1	60.8	16.0	87	sw.			2		10					overcast	John Merrifield.
Sandwick Manse, Orkneys			29.48	748.8	56.5	13.6	80						10					misty	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.63	752.6	29.69	754.1	88.6	31.4	51	s.			1		0					misty	W. H. Lyne.
Sheffield	29.38	746.2	29.66	753.4	63.9	17.7	55	sw.			1		10			0.15	3.8	overcast	W. F. Cooper.
Silloth Rectory	29.50	749.3	29.53	750.0	56.3	13.5	86	sw.			3		10			0.495	12.6	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.64	752.8	56.2	13.4	95	ssw.	16	7.2			10					overcast	I. New.
Stratfield Turgiss					61.3	16.3	82	w.			1		9					showery	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	29.76	755.9	29.77	756.1	66	18.9	78	w.			4		10					gloomy	W. Newcombe.
Valencia, Observatory	29.05	753.1	29.67	753.6	59.3	15.2	71	wsw.	20	8.9			4			blank	blank	d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.02	762.5	30.06	763.5	53	11.7	78	n.	14	6.3		0	8 s		n.	0	0	clearing	H. J. Cundall, C. E.
Chatham, N. B*	30.06	763.5	30.12	765.0	47	8.3	90	calm	0	0		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	30.07	763.8	30.09	764.3	56	13.3	90	calm	0	0			10 s		calm	0.03	0.8	cloudy	J. McWilliams.
Fort Garry, Manitoba*	28.95	735.3	29.73	755.1	72	22.2	82	s.	21	9.4			10 ks		sw.	0.32	8.1	threatening	James Stewart.
Halifax, N. S*	29.94	760.5	30.07	763.8	52	11.1	86	nw.	8	3.6		2 k	0	ne.		0	0	fair	A. Allison.
Kingston, Ontario*	29.77	756.1	30.09	764.3	65	18.3	90	calm	0	0		0	0			0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.99	761.7	30.08	764.0	64	17.8	87	se.	3	1.3		0	sk			0	0	smoky	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.44	747.8	30.12	765.0	62	16.7	100	ne.	4	1.8		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.37	746.0	30.05	763.3	63	17.2	94	ne.	7	3.1		5 k	0	e.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.39	746.5	30.02	762.5	63	17.2	90	e.	5	2.2		2 k	0	e.		0.02	0.5	fair	M. Payne.
Quebec, Quebec*	29.77	756.1	30.08	764.0	60	15.6	90	calm			0		10 n			0.25	6.3	cloudy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.68	753.9	30.13	765.3	58	14.4	93	w.	5	2.2			fg			0	0	dense fog	W. H. McIntyre.
Saugeen, Ontario*	29.39	746.5	30.08	764.0	66	18.9	90	ne.	9	4.0		0	0			0	0	clear	
St. Andrews, N. B	30.02	762.5	30.07	763.8	50	10.0	92	e.	5	2.2		0	0			0	0	clear	
Sydney, C. B*	29.90	759.4	29.96	761.0	53	11.7	80	n.	16	7.2			10 ks		n.	0.46	11.7	cloudy	T. C. Hill, C. E
Toronto, Ontario*	29.73	755.1	30.10	764.5	65	18.3	93	ne.	8	3.6		0	8 ks		ne.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.02	762.5	30.09	764.3	52	11.1	100	calm	0	0			fg.			0	0	foggy	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.71	729.2	30.07	763.8	62.0	16.7	88	se.			4	hz	hz.			0	0	light haze	Wm. Wylie.
St. Johns, Newfoundland	29.817	757.27	30.067	763.57	53	11.7	100	n.	3	1.3			fg.			1.00	25.4	foggy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.20	767.1	30.22	767.6	65	18.3	88	se.	7.2	3.2		0	0			0	0	hazy	C. Hansen.
Cape Town, C. G. H. Obs'y	30.10	764.5	30.13	765.3	72.6	22.6	46	se.	10	4.5		0	0			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
Chinese (*Sub-series*).																			
Hankow																			
Zi-Ka-Wei, near Shanghai	29.92	760.0	29.95	760.6	75.6	24.2	86	e.	5.6	2.5		9 ck	0	wsw.					N. Titoushkin.
Danish.																			
Copenhagen	29.52	749.7	29.56	750.9	61.0	16.1	81	sw.	18	8			9			0.083	2.1	covered	M. Marc Dechevrens, S.J.
Fanöe	29.61	752.0	29.63	752.5	62.1	16.7	75	wnw.			4		4						Oversergent Fischer.
Godthaab, Greenland	30.07	763.7	30.11	764.8	33.4	0.8	96	s.			4		10			0	0	foggy	Overloerer Lauridsen
Ivigtut	30.10	764.6	30.12	765.1	38.8	3.8		calm			0		10					foggy	S. Kleinschmidt.
Stykkisholm, Iceland	29.79	756.6	29.83	757.7	41.0	5.0	80	e.			7		2						
Thorshavn	29.50	749.4	29.54	750.3	52.2	11.2	88	e.	9	4			10						A. O. Thorlacius.
Vestervig	29.48	748.9	29.58	751.2	60.1	15.6	73	w.			6		3						Overloerer Bergh. Loearer Oesterbol.
French.																			
Agen, Normal School	29.35	745.6	30.00	762.0	63.7	17.6	82	sw.			1		8			0	0	very cloudy	M. Labroue, Directo .
Alençon, Normal School	29.31	744.5	29.86	758.5	63.7	17.6	94	sw.			1		n	w.	w.	0.08	2.		M. Nicot, Director.
Arras, Engineer School	29.54	750.3	29.79	756.6	63.9	17.7	73	n.			1		kn		ne.	0.012	0.3		M. Fénéon, Command't.
Avignon, Normal School	29.95	760.8	30.03	762.8	68.7	20.4	71	w.			1		1c					rainy	M. Giraud, Director.
Bar-sur-Seine	29.31	744.4	29.85	758.3	61.0	16.1	89	sse.			1		10			0.181	4.6	light rain	M. Saillard, Director.
Beauvais, Normal School	29.56	750.9	29.82	757.5	64.4	18.0	69	sse.			1		8		s.	0.122	3.1	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	28.95	735.4	29.82	757.5	65.1	18.4	73	s.			1		10		w.	0.71	18.	covered	M. Gobin, Director.
Bordeaux, Observatory	29.76	755.8	30.01	762.2	68.4	20.2	80	w.			1		10			0.315	8.0	covered	M. Rayet, Director.
Bourges, Normal School	29.32	744.7	29.85	758.3	66.2	19	84	sw.							sw.	0.382	9.7		M. Malet, Director.
Brest, Naval Observatory	29.67	753.6	29.91	759.8	64.4	18.0	92	wsw.			2		10		wsw.	1.181	30.0	hazy	M. de Kermaree, Dir.
Caen, Normal School	29.72	755.0	29.80	757.0	54.3	12.4	90	sw.			1		8		sw.	0.04	1.	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.54	750.2	29.85	758.2	63.5	17.5	76	s.			1		8	sw.	wsw.	0.024	0.6	very cloudy.	M. Jadot, Director.
Charleville, Normal School	29.32	744.8	29.82	757.4	65.8	18.8	61	sw.			6		8			0.205	5.2	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.59	726.1	29.89	759.1	73.8	23.2	55	w.			2		8		w.	0.024	0.6	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.10	739.1	29.93	760.3	64.4	18	90	sw.					10		ssw.	0.201	5.1		M. de Villemontée, Dir.
Commercy, Normal School	28.13	714.6	29.87	758.6	60.8	16	85	sw.			1		10	sw.	sw.	0.087	2.2	raining	Dr. Coulet, Director.
Gap, Normal School	27.38	695.5	29.84	757.8	68.2	20.1	45	n.			2	2 ck	0	n.		0	0		M. Jeanglrard, Director.
Grénsque, du Rhone	28.91	734.3	30.00	762.0	73.8	23.2	48	nw.			2		3		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.21	742.0	29.97	761.3	61.5	16.4	77	ene.			1		n		nw.	0.094	2.4		M. Ablard, Director.
Lamballe, Normal School					66.9	19.4	77	w.			2		5		w.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.51	749.6	30.07	763.8	65.8	18.8	92	wsw.			4		10			0.94	24.	covered	M. Chauvin, Director.
Lorient, Naval Observatory	29.82	757.5	29.93	760.1	63.5	17.5	90	wsw.			2		10			0.039	1.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.92	734.6	29.95	760.8	67.8	19.9	68	s.			2		10		w.	0.220	5.6	covered	M. André, Director.
Mans, Normal School	29.57	751.0	29.87	758.6	66.4	19.1	78	w.			3		5		w.	0.150	3.8	cloudy	M. Piboen, Director.
Marseille, Observatory	29.76	756.0	30.03	762.8	68.9	20.5	67	w.			2.3		4		wnw.	0	0		M. Stephan, Director.
Montlouis																			M. Cave, for Dr. Fines.
Montpellier, Normal School	29.87	758.7	29.99	761.8	75.9	24.4	62						2			0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.10	739.0	29.86	758.4	64.4	18	74	sw.			1	0	5 kn		sw.	0.035	0.9	cloudy	M. Hasse, Director
Nantes, Observatory	29.80	756.8	29.96	760.9	67.5	19.7	76	wsw.			1-3		10 kn		w.	0.366	9.3		M. Larocque, Director.
Perpignan, Observatory	29.94	760.5	30.05	763.2	81.1	27.3	39	sw.	5.6	2.5			3	nw.	nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.37	542.7			37.9	3.2		nw.			2-3		10		nw.	0.295	7.5	rainy	Gen'l de Nansouty, Dir.
Privas, Normal School	28.93	734.9	29.98	761.6	60.8	10.0	59	s.			1		2			0	0	slightly cl'dy	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.13	638.4			50.5	10.3	100	wsw.			4		10			0.295	7.5	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	29.94	760.4	29.97	761.2	68.0	20.0	87	wsw.			2		10		w.	0.28	7.	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.74	755.3	29.95	760.7	66.6	19.2	85	w.			2		8		e.	0.299	7.6	very cloudy	M. Mouillot, Director.
Rodez, Normal School	27.93	709.3	30.02	762.4	62.2	16.8	81	nw.			1		10		nw.	0.213	5.4	covered	M. Seger, Director.
Rouen, Normal School	29.80	757.0	29.85	758.2	65.5	18.6	66	s.			2		5	sw.		1.06	27.	cloudy	M. Brotier.
Saint Maur, Observatory	29.68	753.9	29.85	758.1	61.3	16.3	81	s.			1		10		wsw.	0.063	1.6		M. Renou, Director.
Toulouse, Observatory	29.40	746.8	30.13	765.2	68.4	20.2	76	wsw.			4		10	w.		0.031	0.8	covered	M. Bailland, Director.
Tours	29.69	754.0	29.86	758.5	68.0	20	80	sw.			2		8		wsw.	0.291	7.4	very cloudy	M. de Tastes.
Versailles, Observatory	29.35	745.4	29.84	757.9	63.3	17.4	76	s.			1					0.020	0.5		Dr. A. Hérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.56	750.8	29.85	758.2	62.2	16.8	83	sse.			1		10		wsw.	0.110	2.8		M. Marié Davy, Director
German.																			
Ansbach	28.45	722.6	29.87	758.6	61.5	16.4	58	w.			4		4	n.		0.094	2.4		Prof. Jnedt.
Bamberg	29.01	736.9	29.86	758.4	63.1	17.3	70	w.			2	0	6 n		w.	0.059	1.5		Prof. Dr. Hoh.
Berlin	29.52	749.7	29.69	754.1	62.2	16.8	74	sw.			3		9			0.217	5.5		Prof. Dr. Arndt.
Breslau	29.26	743.3	29.79	756.7	63.3	17.4	57	w.			2		7			0.098	2.5		Royal University Obs'y.
Carlsruhe	29.44	747.8	29.87	758.7	64.0	17.8	73	nw.			1		10	sw.		0.067	1.7	light rain	Albert Senz.
Cassel	29.04	737.7	29.76	755.8	63.3	17.4	58	sw.			4		8	sw.		0.047	1.2		Dr. H. Möhl.
Frankfort-on-the-Main	29.48	748.7	29.83	757.7	68.4	20.2	62	sw.			2		5			0.031	0.8		Physical Society.
Friedrichshafen	28.50	723.9	29.91	759.0	62.6	17.0	65	ssw.			3		2	w.		0.220	5.6		Wilhelm, Chief Tel.
Hamburg	29.60	751.8	29.69	754.1	61.0	16.1	75	wsw.			4		7			0.197	5.0		E. Preller.
Kiel	29.62	752.3	29.63	752.7	60.6	15.9	78	se.			1		8			0.098	2.5		Prof. Dr. G. Karsten
Leipsic, Astrom'l Obs'y	29.37	746.0	29.78	756.5	62.1	16.7	69	w.			3		8	w.		0.043	1.1	sprinkling	H. Leppig, Asst.
Magdeburg	29.53	750.1	29.72	754.8	63.1	17.3	70	w.			4	0	4 ks		w.	0.083	2.1		Dr. Assmann.
Memel	29.65	753.2	29.74	754.4	62.8	17.1	73	wnw.			4	0	9 ks						Issermann.
Munich	28.10	713.8	29.95	761.0	62.8	17.1	53	nw.			2		4	sw		0.382	9.7		Dr. C. Lang.
Neufahrwasser	29.61	752.2	29.63	752.6	66.6	19.2	55	w.			2		10			0.020	0.5		A. Lothes.
Neustadt, Palatinate	29.28	743.8	29.81	757.1	63.9	17.7	76	sw.			1		8	w.		0.197	5.0		Dicknether.
Stuttgart	28.95	735.2	29.82	757.4	63.1	17.3	69	n.			3		6	w.		0.120	3.2		Prof. Dr. Schoder.
Wustrow	29.63	752.5	29.65	753.2	60.6	15.9	73	wsw.			2	0	8 s			0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.40	746.7	29.76	755.9	92.1	33.4		sw.			1.5		1			0	0		Schmidt & Wourlisch
Indian.																			
Kurrachee	29.68	753.8	29.73	755.0	83.1	28.4	79	wsw.	22.0	9.8			4		w.	0.02	0.5	d. clouds	
Deesa	29.24	742.6	29.70	754.5	80.4	30.2	63	sw.	6.0	2.7			5	se.		0.10	2.5	showery	
Bombay	29.76	755.8	29.80	756.8	83.2	28.4	75	w.	10.0	4.5			10	w.		0.17	4.3	overcast	
Poona, Yarrowda	27.92	709.2	29.77	756.1	78.8	26.0	65	wsw.	20.0	8.9			7	w.	w.	0	0	d. clouds	
Trichinopoly	29.48	748.9	29.76	755.9	87.1	30.6	58	n.	1.0	0.4			10			0	0	overcast	
Bellary	28.24	717.2	29.67	753.7	87.5	30.8	48	nw.	10.0	4.5			10			0	0	overcast	
Belgaum	27.24	692.0	29.78	756.4	75.4	24.1	75	w.	14.0	6.3			6	e.	sw.	0	0	d. clouds	
Lahore	28.87	733.4	29.60	751.7	89.1	31.7	65	e.	4.0	1.8			10			0	0	overcast	
Roorkee	28.73	729.8	29.62	752.5	80.2	26.8	89	se.	0.7	0.3			10			0.22	5.6		
Agra	29.09	738.8	29.65	753.0	82.3	27.9	80	sw.	4.0	1.8			9		sw.	0	0	d. clouds	
Nagpur	28.67	728.2	29.70	754.3	85.5	29.7	65	ne.	4.0	1.8			9		e.	0.05	1.3	gloomy	
Jubbulpore	28.39	721.2	29.75	755.7	76.9	24.9	89	w.	2.5	1.1			10		w.	0.39	9.9	overcast	
Lucknow	29.31	744.5	29.68	754.0	81.2	27.3	89	calm	0.7	0.3			10			0.05	1.3	overcast	
Allahabad	29.38	746.2	29.69	754.0	83.2	28.4	90	calm	0	0			10			0	0	overcast	
Patna	29.58	751.2	29.76	756.0	77.5	25.3	92	sse.	3.1	1.4			10	sse.	sse.	1.01	25.6	overcast	
Hazaribagh	27.74	704.5	29.73	755.2	79.0	26.1	81	nne.	6.3	2.8			10			0.04	1.0	thund'r st'm	
Cuttack	29.69	754.1	29.77	756.2	81.3	27.4	25	ssw.					9			0.25	6.4	d. clouds	
Calcutta, Alipore	29.76	755.9	29.78	756.4	77.8	25.4	91	ssw.	4.0	1.8			10	w.		2.77	70.4	overcast	
Dhubri	29.65	753.2	29.77	756.2	81.5	27.5	85	calm	1.2	0.5			9			1.34	34.0	d. clouds	
Chittagong	29.76	755.8	29.84	758.0	79.7	26.5	84	s.	5.6	2.5			8			0	0	d. clouds	
Sibsagar	29.48	748.7	29.82	757.3	77.9	25.5	95	ne.	2.0	0.9			10	w.	w.	0.77	19.6	overcast	
Jeypore	28.25	717.6	29.68	753.9	82.9	28.3	75	wnw.	3.4	1.5			6		w.	0	0	d. clouds	
Zanzibar, Africa	30.04	763.0			80.1	26.7	70	s.	7.6	3.4			8		sse.	0.010	2.5	threatening	
Italian.																			
Udine	29.56	750.8	29.96	760.9	71.1	21.7	52	s.	0.7	0.3			5			0	0		Prof. Giovanni Clodig.
Milan	29.43	747.5	29.93	760.1	72.3	22.4	57	se.	3.1	1.4			8	wnw.		0	0		Prof. Schiaparelli.
Padua	29.82	757.5	29.93	760.2	73.8	23.2	54	se.	3.8	1.7			6	sw.		0	0		Prof. Dott. Lorenzoni.
Moncalieri	29.05	737.9	29.93	760.1	71.8	22.1	40	nw.	3.8	1.7			2	s.		0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	OBSERVERS.
ITALIAN.—Continued.																			
Genoa	29.76	756.0	29.95	760.7	72.9	22.7	53	se.	9.8	4.4			4	se.		0.008	0.2		Prof. G. M. Garibaldi
Mondovi	28.03	711.8	29.86	758.4	72.1	22.3	40	e.			4		1	w.		0	0		Prof. D. C. Bruno
Pesaro	29.88	759.0	29.93	760.2	72.0	22.2	64	ese.	11.9	5.3			5			0.157	4.0		Prof. Luigi Guidi.
Florence	29.71	754.7	29.96	760.9	74.7	23.7	53	sw.			2		3			0.087	2.2		Prof. Costantino Pitter.
Leghorn	29.85	758.3	29.94	760.4	76.6	24.8	44	wnw.	3.8	1.7			6			0	0		Prof. P. Monte.
Rome	29.79	756.6	29.96	760.9	78.4	25.8	32	wnw.	0.7	0.3			3			0	0		Prof. P. Tachini.
Lecce	29.72	754.8	29.96	760.9	75.0	23.9	39	nne.	11.9	5.3			6	n.		0	0		Prof. C. de Giorgi.
Cosenza	29.10	739.2	29.95	760.8	79.9	26.6	71	wsw.	3.1	1.4			5	sw.		0	0		Prof. D. Conti.
Cagliari	29.85	758.3	30.04	763.1	78.3	25.7	33	nw.			6		3	nw.		0	0		Prof. A. Pacinotti.
Palermo	29.80	756.9	30.04	763.0	77.0	25.0	41	nw.	13.7	6.1			1			0	0		Prof. G. Ciacciatore.
Syracuse	29.90	759.5	29.95	760.6	80.6	27.0	55	nne.	7.4	3.3			0			0	0		Prof. Vincenzo Guilian
Sub-series.																			
Naples, S. R	29.48	748.7	29.98	761.6	76.3	24.6	58	wsw.	4.9	2.2			4	nw.		0	0		Prof. T. Brioschi.
Stelvio	22.13?	563.0?			40.6	4.8	62	e.			4		4			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.17?	563.9?			40.5	4.7	74	ne.			2		10			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.83	757.7	29.87	758.7	71.3	21.8	87	nw.	0.1	0.0			10 s;ks			inap.	inap.	covered	K. Ogawa.
Hakodate	29.86	758.4	29.87	758.7	65.8	18.8	91	n.	4.8	2.1			10		wsw.	0	0	overcast	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.71	754.6	29.87	758.7	76.6	24.8	92	sw.	1.1	0.4			10ck;s		sw.	0	0	cloudy	M. Fojima.
Nagasaki, I. M. Obs'y	29.74	755.4	29.93	760.3	76.4	24.7	90	calm	0	0			10 s			0.930	23.6	overcast	
Nemuro	30.06	763.5	30.13	765.3	66.5	19.2	87	e.	1.8	0.8		0	9			0	0	overcast	
Niigata	29.83	757.7	29.87	758.7	73.3	22.9	91	se.	3.2	1.4			10 n			0.040	1.0	light rain	M. Morita.
Nobiru	29.86	758.5	29.88	758.9	74.6	23.7	85	s.	11.1	5.0		7 ck	3 ks			0.055	1.4	overcast	H. Midzushina.
Osaka	29.83	757.7	29.84	757.9	78.8	26.0	85	wsw.	3.7	1.6		2 ck;c	7ck;ks		w.	0.011	0.3	cloudy	
Supporo					69.2	20.7	88	calm	0	0			10			0	0	covered	
Tokei Obs'y, Yeddo	29.83	757.6	29.90	759.5	74.5	23.6	82	s.	9.7	4.3		2 c	3 ck	ssw.	ssw.	0.010	0.2	fair	The Staff.
Wakayama	29.84	757.9	29.89	759.2	78.3	25.7	85	calm	0	0		9	0			0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	30.05	763.3	30.24	768.1	71.5	21.9	54	e.	23.5	10.5		0	3 k;ks		ese.	0.20	5.1	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	602.0	29.92	760.0	59.7	15.4	91	ssw.	0	0		0	0			0	0	clear	Prof. Vicente Fernandez.
Leon.†	24.33	618.0	29.99	761.7	59.4	15.2	89	nne.			1	3 c	1 k	nw.		0	0	½ cloudy	Prof. M. Leal.
Mazatlan	29.68	753.8	29.93	760.3	78.0	25.6	86	n.	0.9	0.4		1 cs	1 ks			0	0	clear	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	587.1	30.13	765.2	55.0	12.8	82	calm			0	1 c	0			0	0	fine	The Staff.
Morelia	24.26	616.2	30.33	770.4	60.1	15.6	58	e.			2	2	2	e.	e.	0	0	clear	M. Tena, M. D
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.96	608.5	29.87	758.6	64.9	18.3	87	calm			0	3 cs	4 ks			0	0	cloudy	M. V. de Leon, M. E
Puebla, Catholic Institute	23.42	594.8	30.56?	778.8?	12.0?	8.9?	89	calm			0		10			0.296	7.2	covered	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D.
Zacatecas	22.55	572.8	30.09	764.3	59.3	15.9	79	sw.	4.6	2.1		0	3 s			1.098	27.9	clear	J. A. Bonilla, M. E
NETHERLANDS.																			
Flushing	29.80	757.0	29.80	757.0	64.2	17.9		w.			3					0.209	5.3		
Groningen	29.64	752.8	29.69	754.2	61.7	16.5		nw.			2					0.535	13.6		
Helder	29.74	755.5	29.74	755.5	61.7	16.5		sw.			2					0.012	0.3		
Hellevoetsluis	29.78	756.5	29.78	756.5	64.8	18.2	67	wsw.			3					0.008	0.2		
Utrecht	29.74	755.3	29.78	756.5	64.9	18.3	77	w.			2		5			0.094	2.4	cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.44	747.7	29.50	749.3	59.0	15.0	74	wnw.	7	3			6			0.039	1.0		
Brono	29.37	740.1	29.41	747.1	60.4	15.8	75	ssw.	18	8			8			0.039	1.0	raining	
Christiania	29.29	743.9	29.43	747.5	64.0	18.1	74	sw.	4	2			7			0.520	13.2		
Gjæsvær	29.52	749.8	29.54	750.4	64.2	17.9		se.			6		10						
Lodingen	29.36	745.7	29.41	746.9	63.5	17.5	67	ne.			1		5			0	0		
PORTUGUESE.																			
Angra, Azores					74.1	23.4	78	se.	3.1	1.4			2			0	0		Dr. J. A. Sampaio.
Campo Major	29.07	738.4	30.02	762.6	84.6	29.2	18	e.	3.8	1.7			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.06	763.6	30.15	765.8	73.6	23.1	61	sw.	6.9	3.1			0			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.79	756.7	30.14	765.5	77.4	25.2	42	n.	16.1	7.2			0			0	0		The Staff.
Ponta Delgada, Azores	30.24	768.0	30.31	769.8	74.5	23.6	62	sse.	9.4	4.2			3			0	0		
Saint Paul de Lomdo	29.79	756.7	30.00	762.0	72.3	22.4	78	nne.			1		0			0	0		
Serra da Estrella	25.45	646.5	30.04	763.0	64.9	18.3	42	se.	6.9	3.1			0			0	0		
RUSSIAN.																			
Akmolinski	28.32	719.3	29.32	744.8	77.9	25.5	46	w.	16	7			9 k			0.004	0.1		Major K. Lasarew.
Archangel	29.88	759.0	29.90	759.5	66.4	19.1	63	e.	13	6		0	7 ks			0	0		Capt. Sselliwerstow.
Astrakhan	30.02	762.4	29.93	760.3	90.7	32.6	25	sse.	9	4		0	0			c	0		Capt. Wisganow.
Barnaul	28.95	735.3	29.42	747.2	73.4	23.0	65	nw.	2	1			4			0.197	5.0		Meteorological Obs'y.
Dorpat	29.13	740.0	29.37	745.9	65.5	18.6	98	w.	7	3			10 n			0.535	13.6	light rain	Observatory.
Ekaterinburg	28.99	736.4	29.96	760.9	47.7	8.7	47	nnw.	13	6		4 ck	0			blank	blank		Meteorological Obs'y.
Irkutsk																			
Kasan	29.81	757.1	30.07	763.8	68.9	20.5	21	ne.	7	3		2 c	0			0	0		Observatory.
Kertch	29.67	753.6	29.69	754.1	82.9	28.3	80	s.	9	4		0	5 ks			0	0		Lagorio & Sastyrez.
Kieff	28.95	735.2	29.53	750.1	83.5	28.6	51	ssw.	13	6		0	1 k;ks						Observatory.
Lugan	29.57	751.1	29.76	755.9	91.2	32.9	29	sse.	22	10		0	0			0	0		Meteorological Obs'y.
Moscow	29.38	746.2	29.82	757.4	79.3	26.3	53	ssw.	18	8		0	5 ks						Meteorological Obs'y.
Nikolaiev	29.61	752.0	29.68	753.8	88.7	31.5	43	s.	13	6		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.81	757.1	29.95	760.7	75.0	23.9	74	calm	0	0		2 cs	0			0	0		Physical Observatory.
St. Petersburg	29.47	748.6	29.49	749.0	66.7	19.3	85	ese.	9	4			10 n			0.110	2.8		Central Physical Obs'y.
Semipalatinsk	28.78	730.9	29.37	746.1	86.0	30.0	40	ssw.	4	2			7			inap.	inap.		Major Lasarew
Tashkend, Laboratory	28.31	720.5	29.85	758.3	80.2	26.8	51	calm	0	0			1			0	0		Teich, A. M.
Tiflis	28.51	724.1	29.83	757.7	91.6	33.1	38	s.	9	4		0	2 k			0.031	0.8		Physical Observatory.
Vladivostock	29.84	757.8	29.90	759.5	63.7	17.6	91	calm	0	0		0	1 s						
Warsaw	29.27	743.4	29.09	754.0	57.0	13.9	97	sw.	7	3			10 ks						Astronomical Obs'y.
Wilna	29.10	739.2	29.51	749.6	58.8	14.9	93	w.	9	4			10			0.035	0.9	heavy cl'ds.	Berg, Assistant.
Yeniseisk	29.46	748.3	29.74	755.5	49.8	9.9	69	e.	7	3			3			0.024	0.6		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.39	746.5	55	12.8	93	s.			4		10	s.		0.3	8.	raining	J. Youngclause.
North Unst			29.48	748.8				n.			3	7	3	ne.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.93	760.2	30.03	762.8	77.0	25.0	59	sw.	1.8	0.8		0	4			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.11	764.7	30.17	766.2	68.7	20.4	88	se.	2.9	1.3			10			0.010	0.4	covered	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.21	691.2	30.09	764.2	71.8	22.1	55	s.	3.8	1.7		0	3			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.92	709.1	30.04	763.1	80.8	27.1	39	sw.	3.1	1.4		0	1			0	0	light clouds	The Staff.
Murcia, Met. Obs'y	29.94	760.5	30.08	763.9	86.5	30.3	55	e.	3.6	1.6			3			0	0	almost clear	Olayo Diaz, Director
Oviedo	29.30	744.3	30.17	766.2	68.9	20.5	78	n.	4.4	2.0		0	0 k			0	0	cloudy	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.26	743.3	30.14	765.6	67.6	19.8	86	sw.	6.3	2.8			10			0.102	2.6	covered	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.95	760.8	30.02	762.5	76.3	24.6	87	e.	1.1	0.5		1 c	0	ne.		0.57	14.5	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.86	758.5	29.92	760.0	82.0	27.8	80	ne.	4.4	2.0		4 ck	4 ck		ne.	0.157	4.0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.97	761.1	30.06	763.5	86.0	30.0	32	e.	16.7	7.4		0	0			0	0		Capt. C. Pujazon R. N.
San Juan de Porto Rico, W. I	29.93	760.3	30.02	762.6	82.8	28.2	91	se.	3.8	1.7		5 cs	3 k	e.	se.	1.543	39.2	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.80	756.9	29.93	760.2	83.9	28.8	77	nnw.	2.2	1.0		4 cs	4 k			0	0	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	29.55	750.6	29.59	751.6	62.2	16.8	83	s.			2		8			0.146	3.7		
Umea	29.45	748.0	29.50	749.3	60.4	15.8	89	s.			4		9			0.283	7.2		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Hernosand	29.43	747.6	29.48	748.9	57.6	14.2	94	sse.			2		10			0.878	22.3		
Stockholm	29.29	743.9	29.47	748.4	65.1	18.4	67	sw.			2		10			0	0		
Wisby	29.46	748.3	29.52	749.8	62.2	16.8	77	w.			4		5			0	0		
Sub-series.																			
Upsala	29.33	745.0	29.42	747.2	63.9	17.7	79	s.	6.5	2.9			8	sw.	wsw.	0.039	1.0		S. G. Fineman.
SWISS.																			
Geneva	28.59	726.1	29.99	761.8	59.9	15.5	88	ese.			1		10			0.169	4.3	covered	The Observatory
TURKISH.																			
Constantinople			29.74	755.5	86.4	30.2	53	ese.	7	3.0			0			0	0		The Observatory.
Valona			30.12	765.1	79.3	26.3		nw.			1		2			0	0	slightly cld'y	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.80	756.9	87.3	30.7	66	w.			2	0	7 k		sw.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.03	762.7	30.11	764.8	63	17.2	78	ne.	3	1.3		0	0			0.21	5.3	clear	J. O. Barnes.
Alpena, Michigan	29.47	748.5	30.11	764.8	68	20.0	90	e.	5	2.2		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.12	638.0	29.84	757.9	61	16.1	72	ne.	2	0.9		0	5 s			0	0	fair	W. C. Barnes.
Assinnaboine, Ft., Montana	27.39	695.7	30.14	765.5	53	11.7	74	sw.	9	4.0			10 s		w.	inap.	inap.	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.75	730.2	29.90	759.4	69.0	20.6	93	w.	4	1.8			10 s			0.08	2.0	cloudy	H. Hall.
Atlantic City, New Jersey	29.90	759.4	29.91	759.7	69	20.6	92	e.	26	11.6			10 s		e.	3.97	100.8	cloudy	Jas. M. Watson.
Augusta, Georgia	29.74	755.4	29.93	760.2	74	23.3	90	s.	1	0.4			10 s		sw.	0.06	1.5	cloudy	John Healy.
Baltimore, Maryland	29.90	759.4	29.95	760.7	68	20.0	93	ne.	8	3.6			10 n		e.	2.12	53.8	light rain	Robert Seyboth.
Barnegat, New Jersey	29.91	759.7	29.93	760.2	67.5	19.7	100	e.	26	11.6			10 n		e.	2.91	73.9	light rain	G. A. Hill.
Bennett, Fort, Dakota	28.27	718.0	29.81	757.2	75	23.9	64	w.	7	3.1			10 s			inap.	inap.	cloudy	A. Pritchard.
Benton, Fort, Montana	27.52	699.0	30.31	769.9	48	8.9	76	sw.	14	6.3			10 ks		sw.	inap.	inap.	cloudy	S. Wheaton.
Behring Island, Behring Sea	30.05	763.3	30.07	763.8	55.0	12.8		s.	20	8.9			fg			0.02	0.5	dense fog	Dr. L. Steineger.
Bismarck, Dakota	28.13	714.5	29.88	758.9	62	16.7	58	n.	14	6.3			10 s		sw.	0.18	4.6	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.04	763.0	30.07	763.8	64	17.8	73	e.	16	7.2		3 cs	6 s	n.		inap.	inap.	cloudy	J. T. Elker.
Boise City, Idaho	27.47	697.7	30.22	767.6	46	7.8	56	nw.	4	1.8		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	29.95	760.7	30.10	764.5	59.0	15.0	87	w.	1	0.4			10 s		w.	0	0	cloudy	O. B. Cole.
Brownsville, Texas	29.88	758.9	29.92	760.0	74.5	23.6	90	calm	0	0		3 c	4 s		s.	inap.	inap.	fair	M. McCarty.
Buffalo, New York	29.34	745.2	30.07	763.8	63.2	17.3	84	ne.	6	2.7		0	1 s			0	0	clear	Clarence Weaver.
Buford, Fort, Dakota	28.09	713.5	30.03	762.7	57	13.9	64	n.	15	6.7			10 s		n.	0	0	cloudy	A. H. Bell.
Burlington, Vermont	29.81	757.2	30.10	764.5	62.5	16.9	83	s.	5	2.2		0	4 s		se.	0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.56	750.8	29.95	760.7	69.7	20.9	93	ne.	8	3.6			10 s		ne.	0.07	1.8	cloudy	W. H. Ray.
Campo, California	27.48	698.0	29.98	761.5	47.2	8.4	86	s.	2	0.9		0.	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	29.87	758.7	29.89	759.2	74	23.3	97	sw.	4	1.8			10 s			0.17	4.3	cloudy	A. K. Alderson.
Cape May, New Jersey	29.85	758.2	29.88	758.9	70.0	21.1	90	ne.	25	11.2			10 s		e.	1.70	43.2	cloudy	W. E. Smith.
Cape Mendocino	29.43	747.5			53	11.7	86	calm	0	0		0	0			0	0	clear	J. R. Williams.
Cedar Keys, Florida	29.95	760.7	29.97	761.2	76	24.4	90	ne.	6	2.7			10 n		e.	0.23	5.8	light rain	F. W. Mixer.
Champaign, Illinois	29.16	740.7	29.95	760.7	68.0	20.0	90	ne.	11	4.9		0	4 s		ne.	0.07	1.8	fair	L. A. Welsh.
Charleston, S. Carolina	29.87	758.7	29.92	760.0	76	24.4	90	w.	5	2.2		3 c	7 ks		w.	3.32	84.3	cloudy	J. H. Smith.
Charlotte, N. Carolina	29.04	737.6	29.87	758.7	74.0	23.3	90	sw.	2	0.9			10 s		sw.	0.08	2.0	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.10	739.1	29.90	759.4	67.0	19.4	100	sw.	5	2.2			fg.			1.46	37.1	dense fog	B. L. Goulding.
Cheyenne, Wyoming	24.16	613.7	29.86	758.4	60.5	15.8	53	nw.	6	2.7			10 s		w.	inap.	inap.	cloudy	E. McGovern.
Chicago, Illinois	29.30	744.2	29.99	761.7	70.3	21.3	86	ne.	5	2.2		4 k	0	ne.		inap.	inap.	fair	J. Mitchell.
Chincoteague, Virginia	29.95	760.7	29.97	761.2	73	22.8	97	n.	6	2.7			9 ks		nw.	0.46	11.7	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.23	742.4	29.87	758.7	71.4	21.9	89	ne.	5	2.2			10 s		ne.	1.85	47.0	threatening	J. F. Harrold.
Cleveland, Ohio	29.26	743.2	29.98	761.5	66.2	19.0	80	e	6	2.7		7 k	0	e.		0	0	fair	J. B. Newlin.
Coleman City, Texas																			L. Dorman.
Columbus, Ohio	29.06	738.1	29.89	759.2	68	20.0	90	ne.	8	3.6			10 s		e.	0.02	0.5	cloudy	D. Cuthbertson.
Concho, Texas	28.07	713.0	29.93	760.2	73	22.8	76	se.	2	0.9		0	0			0	0	clear	W. W. McConihe.
Custer, Fort, Montana	27.12	688.8	30.18	766.6	53	11.7	80	n.	8	3.6		6 k	0	calm		0.10	2.5	fair	W. B. Lamar.
Davenport, Iowa	29.38	746.2	30.01	762.2	68	20.0	84	ne.	3	1.3		0	0			0	0	clear	R. R. Martin.
Davis, Fort, Texas	25.21	640.3	29.86	758.4	59	15.0	73	calm	0	0		0	0			0.52	13.2	clear	J. Williams.
Dayton, Washington T'y	28.61	726.7	30.32	770.1	42	5.6	65	n.	4	1.8		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.43	645.9	29.86	758.4	66	18.9	81	s.	2	0.9			10 s		w.	0.01	0.3	cloudy	G. W. Scott.
Decatur, Texas					79	26.1	58	se.	2	0.9		0	3 s			0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	29.85	758.2	29.87	758.7	68	20.0	100	ne.	39	17.4			10 s		ne.	0.88	22.4	cloudy	T. S. Townsend.
Denison, Texas	29.15	740.4	29.93	760.2	72.5	22.5	90	n.	2	0.9		0	0			0	0	clear	J. McGlone.
Denver, Colorado	24.82	630.4	29.84	757.9	69.0	20.6	47	nw.	7	3.1			9 s			0.02	0.5	cloudy	F. M. Neal.
Des Moines, Iowa	29.15	740.4	30.03	762.7	63	17.2	90	calm	0	0		0	fg.			0	0	clear	F. W. Conrad.
Detroit, Michigan	29.32	744.7	30.01	762.2	67.7	19.8	84	n.	11	4.9			10 s		ne.	0.01	0.3	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.42	696.5	29.90	759.4	65	18.3	78	calm	0	0		0	1 s			0	0	clear	W. M. Mattingly.
Dubuque, Iowa	29.35	745.5	30.04	763.0	64.5	18.1	93	n.	1	0.4		0	fg.			0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.34	745.2	30.06	763.5	64	17.8	93	ne.	6	2.7			10s; fg			0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.16	740.7	29.96	761.0	73.0	22.8	90	ne.	3	1.3			10 s			1.43	36.3	cloudy	F. Belford.
Eagle Rock, Idaho	25.46	646.7	30.01	762.2	42	5.6	62	n.	4	1.8		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.02	762.5	30.09	764.3	53.0	11.7	86	ne.	3	1.3		0	hz.			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.28	692.9	29.92	760.0	63	17.2	78	se.	1	0.4		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.29	667.8	29.89	759.2	67	19.4	78	calm	0	0		2 ck	0	e.		0	0	clear	J. F. Marshall
Erie, Pennsylvania	29.30	744.2	30.01	762.2	67	19.4	78	calm	0	0		3 c	0			inap.	inap.	clear	Peter Wood.
Escanaba, Michigan	29.45	748.0	30.09	764.3	65.0	18.3	90	n.	4	1.8		0	hz.			0	0	clear	George Heathcote.
Fredericksburg, Texas																			Frank Halwegler.
Galveston, Texas	29.87	758.7	29.92	760.0	80	26.7	91	w.	10	4.5		2 c	3 ks		e.	0.55	14.0	fair	E. O'C. Machernev.
Grand Haven, Michigan	29.39	746.5	30.04	763.0	67.5	19.7	90	ne.	6	2.7			10 s		ne.	0	0	cloudy	W. A. Reid.
Grant, Fort, Arizona	25.31	642.9	29.88	758.9	63.9	17.7	81	e.	3	1.3		3 c	0			0	0	clear	Robert C. Lord.
Hatteras, North Carolina	29.90	759.4	29.92	760.0	75	23.9	97	w.	20	8.9			10 s		ne.	0.27	6.9	cloudy	R. M. Crawford.
Helena, Montana	26.13	663.7	30.22	767.6	55	12.8	47	w.	5	2.2		5 ck	0	w.		0	0	fair	N. C. Smith.
Henrietta, Texas	29.01	736.8	30.01	762.2	75.0	23.9	82	calm	0	0		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.55	725.2	29.89	759.2	68.1	20.1	76	se.	18	8.0		2 cs	3 s	sw.		0	0	fair	S. W. Glenn.
Indianapolis, Indiana	29.13	739.9	29.90	759.4	69	20.6	90	ne.	5	2.2		7 k	0	ne.		0.24	6.1	fair	O. Schutze
Indianola, Texas	29.90	759.4	29.93	760.2	78.2	25.7	88	nw.	4	1.8		2 k	0			0	0	clear	I. A. Reed.
Jacksboro, Texas	28.80	731.5	29.92	760.0	72	22.2	90	calm	0	0		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.90	759.4	29.94	760.5	77	25.0	85	sw.	5	2.2			10 s		sw.	0.53	13.5	cloudy	J. W. Smith.
Keogh, Fort, Montana	27.69	703.3	30.12	765.0	57	13.9	77	n.	15	6.7			10 s		n.	inap.	inap.	cloudy	A. Schneider.
Keokuk, Iowa	29.33	745.0	29.95	761.0	69.5	20.8	86	n.	5	2.2		0	0			0	0	clear	F. Z. Gosewisch
Key West, Florida	29.97	761.2	29.99	761.7	82.0	27.8	82	s.	1	0.4		0	1 k		s.	0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	29.90	759.4	29.92	760.0	78	25.6	88	sw.	9	4.0		0	7 k		w.	0.32	8.1	fair	E. A. Beals.
Knoxville, Tennessee	28.90	734.0	29.91	759.7	66.3	19.1	100	ne.	2	0.9			10s; fg			0.05	1.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.28	743.7	30.03	762.7	65	18.3	68	n.	3	1.3		0	0			0	0	clear	S. C. Emery
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.15	740.4	30.01	762.2	67	19.4	78	calm	0	0		0	0			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.59	751.6	30.40	772.1	47.0	8.3	63	e.	1	0.4		0	0			inap	inap.	clear	W. Bell.
Little Rock, Arkansas	29.61	752.1	29.92	760.0	72	22.2	90	calm	0	0		0	0			inap.	inap.	clear	W. U. Simons.
Los Angeles, California	29.62	752.3	30.00	762.0	59	15.0	93	w.	4	1.8		0	0			0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.31	744.5	29.86	758.4	69	20.6	100	n.	1	0.4			fg			inap.	inap.	dense fog	H. C. Smyth.
Lynchburg, Virginia	29.20	741.7	29.87	758.7	71.5	21.9	89	nw.	2	0.9			10 s		nw.	0.17	4.3	cloudy	Lewis Duane.
Mackinaw City, Michigan	29.48	748.8	30.12	765.0	66.3	19.1	93	se.	3	1.3		0	0			0	0	clear	F. R. Day.
Macon, Fort, North Carolina	29.90	759.4	29.91	759.7	76	24.4	97	sw.	8	3.6			10 n		sw.	0.11	2.8	light rain	F. P. Chaffee.
Madison, Wisconsin	29.07	738.4	30.05	763.3	64	17.8	93	n.	4	1.8		0	0			0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana	25.78	654.8			42	5.6	67	nw.	24	10.7		0	0			0.53	13.5	clear	H. W. Dodge.
McKavett, Fort, Texas																2.55	64.8		J. E. Thatcher.
Marquette, Michigan	29.41	747.0	30.12	765.0	61	16.1	84	n.	2	0.9		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.59	751.6	29.92	760.0	71	21.7	94	n.	2	0.9		0	5 s		n.	0	0	fair	D. T. Flannery.
Milwaukee, Wisconsin	29.30	744.2	30.04	763.0	68	20.0	90	n.	10	4.5			10 s			0	0	cloudy	W. Line.

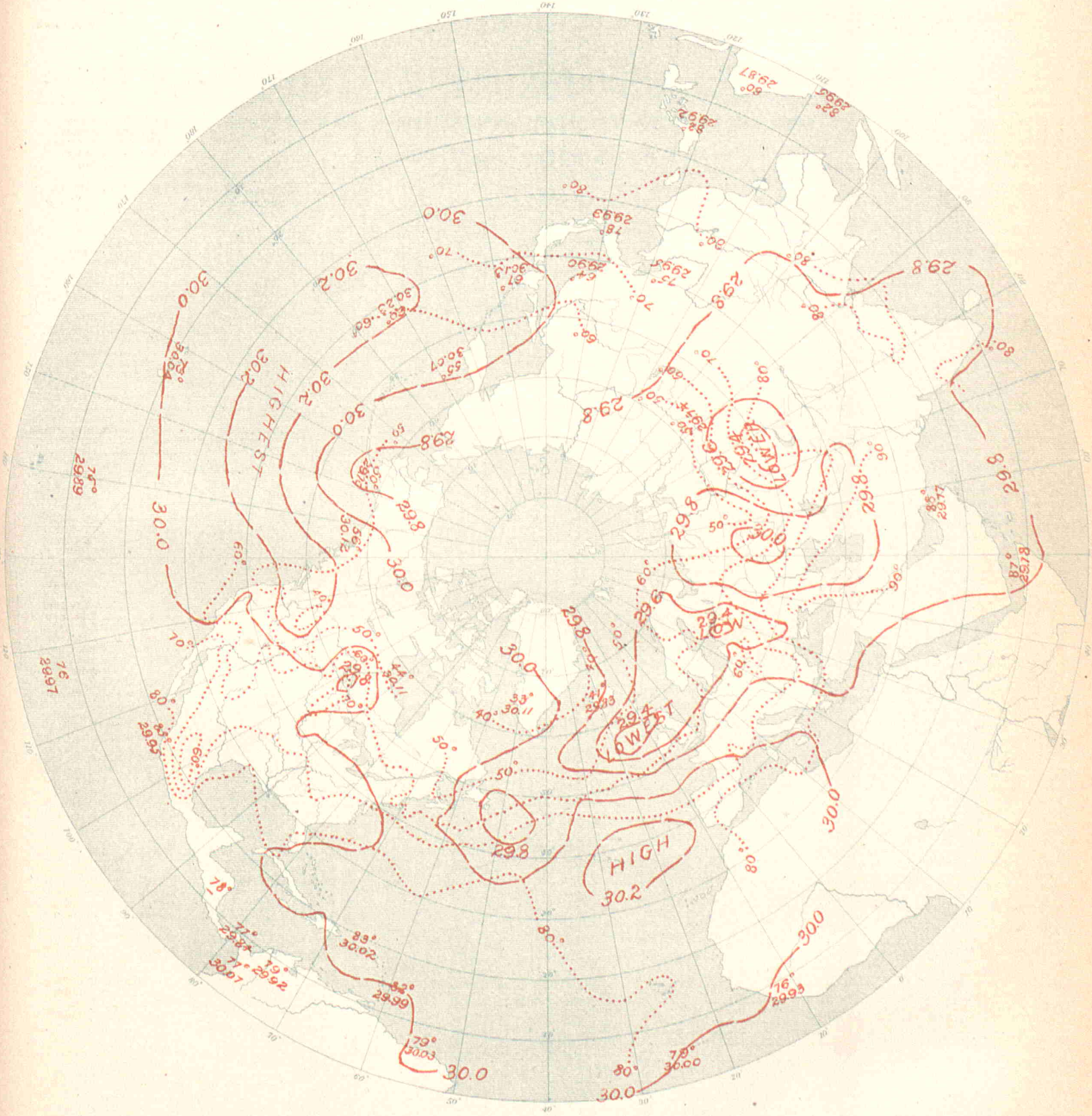
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	27.12	688.8	30.34	770.6	36	2.2	64	nw.	1	0.4			10 s			inap.	inap.	cloudy	J. H. Jones.
Mobile, Alabama	29.87	758.7	29.91	759.7	73.5	23.1	97	sw.	1	0.4		4 ck	4 ks	w.		0.61	15.5	cloudy	C. A. Read.
Montgomery, Alabama	29.68	753.9	29.91	759.7	72.8	22.7	98	w.	4	1.8			10s;fg			inap.	inap.	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	28.90	734.0	29.87	758.7	72	22.2	97	s.	28	12.5			10 n		s.	0.09	2.3	light rain	H. Bessant.
Morgantown, W. Virginia	28.94	735.1	29.94	760.5	68.0	20.0	87	ne.	2	0.9			10 s			0.38	9.7	cloudy	J. C. Sprigg, jr.
Mt. Washington, N. H.	23.99	609.3	30.07	763.8	43.5	6.4	67	ne.	12	5.4		5 ck	0	ne.		0	0	fair	J. G. Linsley.
Nashville, Tennessee	29.32	744.7	29.88	758.9	69.0	20.6	92	w.	1	0.4			fg.			0	0	dense fog	L. N. Jesunofsky.
New Haven, Connecticut	29.96	761.0	30.06	763.5	58	14.4	87	ne.	10	4.5		9cs;ck	0	w.		0.05	1.3	cloudy	J. H. Sherman.
New London, Connecticut	30.04	763.0	30.09	764.3	61	16.1	87	n.	4	1.8		6 c	0	s.		0.45	11.4	fair	J. G. Lynch.
New Orleans, Louisiana	29.85	758.2	29.90	759.4	76.8	24.9	88	w.	1	0.4		3 c	fg.			1.23	31.2	fair	L. Dunne.
Newport, Rhode Island	30.05	763.3	30.10	764.5	61.3	16.3	83	ne.	5	2.2		6ck;cs	2 ks	nw.	ne.	0	0	cloudy	W. McGillivray.
New York, New York	29.86	758.4	30.04	763.0	61	16.1	84	ne.	16	7.2			10 s		ne.	0.81	20.6	cloudy	J. B. Merrill.
Norfolk, Virginia	29.86	758.4	29.89	759.2	73	22.8	100	sw.	3	1.3			10 s			0.18	4.6	cloudy	Wm. Davis.
North Platte, Nebraska	27.06	687.3	29.86	758.4	67.6	19.8	68	se.	9	4.0		0	0			0	0	clear	E. F. Brady.
Olympia, Washington T'y.	30.31	769.9	30.35	770.9	42.0	5.6	92	sw.	2	0.9		0	0			0	0	clear	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.																0.01	0.3		P. H. Ray.
Omaha, Nebraska	28.89	733.8	30.03	762.7	68.8	20.4	78	calm	0	0		6 c	0			0	0	fair	A. Pollak.
Oswego, New York	29.76	755.9	30.08	764.0	63.0	17.2	83	se.	5	2.2		0	0			0	0	clear	S. W. Beall.
Palestine, Texas	29.41	747.0	29.95	760.7	74.0	23.3	90	se.	4	1.8		0	0			0	0	clear	L. M. Pindell.
Pensacola, Florida	29.86	758.4	29.89	759.2	73.2	22.9	97	nw.	3	1.3		2 cs	0			0.69	17.5	clear	M. McGauran.
Philadelphia, Pa.	29.89	759.2	29.99	761.7	62.5	16.9	93	ne.	18	8.0			10n;fg		ne.	3.67	93.2	light rain	T. F. Townsend.
Pike's Peak, Colorado	18.07	459.0	29.86	758.4	38	3.3	85	sw.	6	2.7			9 s		sw.	inap.	inap.	cloudy	L. M. Dey.
Pioche, Nevada	24.17	613.9	29.87	758.7	57.8	14.3	80	nw.	2	0.9		6 k	4 ks	s.	s.	0.09	2.3	cloudy	C. N. Kitchel.
Pittsburg, Pennsylvania	29.15	740.4	29.94	760.5	65.8	18.8	90	ne.	6	2.7			10 s		ne.	0.25	6.3	cloudy	J. B. Turton.
Poplar River, Montana	28.00	711.2						se.			1	0	2 s			0.04	1.0	clear	W. D. Maxwell.
Port Eads, Louisiana	29.93	760.2	29.94	760.5	76.6	24.8	92	w.	17	7.6		0	8 s		w.	0.38	9.7	cloudy	M. Hermann.
Port Huron, Michigan	29.38	746.2	30.04	763.0	64.2	17.9	90	ne.	5	2.2		0	0			0.11	2.8	clear	W. O. Bailey.
Portland, Maine	30.02	762.5	30.07	763.8	60.0	15.6	78	sw.	1	0.4		4 cs	sk.	s.		0	0	fair	W. W. Eichelberger.
Portland, Oregon	30.14	765.5	30.21	767.3	54.0	12.2	74	nw.	7	3.1		0	0			0	0	clear	M. L. Hearne.
Portsmouth, N. C.					78	25.6	91	se.	12	5.4		0	8 ks			0.63	16.0	cloudy	F. S. Coburn.
Prescott, Arizona	24.92	633.0	29.90	759.4	52	11.1	80	s.	1	0.4		0	0			0.07	1.8	clear	J. McN. Wright.
Provincetown, Mass.	30.07	763.8	30.10	764.5	62	16.7	84	ne.	2	0.9		2 cs	5 s			0	0	fair	P. T. Jenkins.
Punta Rassa, Florida	29.96	761.0	29.97	761.2	80.5	26.9	88	se.	10	4.5		1 c	2 k	calm	s.	0	0	clear	W. J. Evans.
Red Bluff, California								calm			0	0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.74	755.4	29.98	761.5	76	24.4	85	se.	2	0.9			10 s			0.40	10.2	cloudy	H. S. Miles.
Rochester, New York	29.43	747.5	30.08	764.0	65	18.3	84	se.	3	1.3		1 k	hz.			0	0	clear	E. W. McGann.
Roseburg, Oregon	29.60	751.8	30.14	765.5	45.6	7.6	74	ne.	1	0.4		0	0			0	0	clear	J. J. Nanry.
Sacramento, California	29.91	759.7	29.98	761.5	58.5	14.7	75	se.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.38	746.2	29.96	761.0	69.0	20.6	100	n.	6	2.7			10s;fg		n.	0.04	1.0	cloudy	J. H. Webber.
St. Paul, Minnesota	29.18	741.2	30.02	762.5	68.0	20.0	90	se.	3	1.3		0	hz.			0	0	clear	P. F. Lyons.
St. Vincent, Minnesota	28.91	734.3	29.76	755.9	71	21.7	82	se.	18	8.0		3 cs	0 s	w.		0	0	cloudy	G. Kingsbury.
Salt Lake City, Utah	25.77	654.5	29.96	761.0	62	16.7	58	calm	0	0			10 ks		sw.	0.39	9.9	cloudy	J. Craig.
San Antonio, Texas	29.25	742.9	29.94	760.5	75.0	23.9	85	calm	0	0		1 c	0			inap.	inap.	clear	T. J. Kenan.
San Diego, California	29.92	760.0	29.99	761.7	64.0	17.8	93	n.	3	1.3		0	0			0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.29	744.0	29.95	760.7	70	21.1	78	se.	14	6.3			10 s		e.	0.17	4.3	cloudy	M. H. Perry.
Sandy Hook, New Jersey	29.97	761.2	30.00	762.0	63.0	17.2	90	e.	29	13.0			10 s		e.	1.52	38.6	cloudy	B. A. Blandon.
San Francisco, California	29.97	761.2	30.04	763.0	53	11.7	93	sw.	8	3.6		0	fg.		sw.	0	0	clear	N. Gerom.
Santa Fé, New Mexico	23.34	592.8	29.83	757.7	60	15.6	52	se.	4	1.8		3 c	0	sw.		0	0	clear	H. U. Jones.
Savannah, Georgia	29.84	757.9	29.93	760.2	77	25.0	88	w.	8	3.6			10 s		w.	0.05	1.3	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.69	677.9	30.22	767.6	44	6.7	86	w.	5	2.2		4 cs	0			0.09	2.3	fair	A. L. Mathews.
Shreveport, Louisiana	29.67	753.6	29.90	759.4	75	23.9	90	calm	0	0		2 k	fg.			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.74	730.0	29.92	760.0	67.5	19.7	91	n.	6	2.7		0	0			0	0	clear	T. Cleary.
Silver City, New Mexico	24.33	618.0	29.79	756.7	58	14.4	67	ne.	3	1.3		0	2 s		calm	0	0	clear	J. B. Wallace.
Sitka, Alaska	30.06	763.5	30.12	765.0	55.6	13.1	83	se.	14	6.3			10 n		se.	0.30	7.6	light rain	J. J. McLean.
Smith, Fort, Arkansas	29.46	748.3	29.92	760.0	68.3	20.2	93	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	29.87	758.7	29.91	759.7	78	25.6	88	w.	6	2.7		0	6 k		w.	0.31	7.9	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.34	719.8	30.34	770.6	41	5.0	67	calm	0	0		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.31	744.5	29.97	761.2	68.2	20.1	92	ne.	7	3.1			10 s		ne.	0.07	1.8	cloudy	T. B. Jennings.
Springfield, Massachusetts	29.98	761.5	30.11	764.8	56.8	13.8	86	w.	3	1.3		9 c	fg.	w.		0	0	cloudy	T. S. Outram.
Springfield, Mo.	28.58	725.9	29.96	761.0	66	18.9	90	ne.	4	1.8		0	fg.			0	0	dense fog	J. B. Marbury.
Starkville, Miss.	29.41	747.0	29.88	758.9	75	23.9	82	w.	3	1.3		4 ck	3 s	w.		inap.	inap.	fair	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.09	713.5	29.87	758.7	60	15.6	72	nw.	24	10.7			10 s			0.16	4.1	cloudy	W. Burrows.
Stockton, Fort, Texas	27.00	685.8	29.94	760.5	61.7	16.5	100	calm	0	0		0	0			0.34	8.6	clear	J. O'Dowd.
Thomas Camp	27.22	691.4	29.84	757.9	71	21.7	82	w.			1	1 cs	1 k			0	0	clear	
Thatcher's Island, Mass.	30.08	764.0	30.12	765.0	60.0	15.6	90	sw.	3	1.3		5 k	0	w.		0	0	fair	G. Liebmann.
Toledo, Ohio	29.28	743.7	29.95	760.7	68.5	20.3	92	ne.	14	6.3			10 n		ne.	0.17	4.3	light rain	A. Buell.
Tucson, Arizona	27.56	700.0	29.90	759.4	72	22.2	90	s.	2	0.9		0	1 k			inap.	inap.	clear	J. L. Whiteside.
Umatilla, Oregon	30.00	762.0	30.36	771.1	46	7.8	53	se.	8	3.6		0	0			0	0	clear	J. Daly.
Uvalde, Texas	28.98	736.1	29.92	760.0	72	22.2	97	ne.	1	0.4		0	0			0.12	3.0	clear	E. C. Imlay.
Verde, Fort, Arizona					65.9	18.8	70	nw.			1	0	0			0.06	1.5	clear	D. Brooks.
Vicksburg, Mississippi	29.66	753.4	29.90	759.4	75	23.9	97	n.	4	1.8			fg.			0	0	dense fog	James Kenealy.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.52	625.3	29.96	761.0	50.3	10.2	88	ne.	2	0.9		0	1 k			0.07	1.8	clear	T. M. Ambler.
Washington, D. C.	29.82	757.4	29.93	760.2	68.5	20.3	92	ne.	9	4.0			10 n		ne.	1.21	30.7	light rain	F. M. M. Beall.
West Las Animas, Colorado	26.02	660.9	29.78	756.4	65.9	18.8	59	sw.	3	1.3		4 c	0	sw.		0	0	fair	F. H. Brandenburg.
Williamsport, Pa.	29.44	747.8	30.02	762.5	65	18.3	84	calm	0	0			10 ks		e.	2.86	72.6	threatening	B. F. Hough.
Wilmington, N. Carolina	29.85	758.2	29.90	759.4	77	25.0	82	w.	5	2.2		3 k	3 s			0.08	2.0	fair	Samuel A. Haney.
Winnemucca, Nevada	25.83	656.1	30.06	763.5	52	11.1	21	ne.	18	8.0		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.71	729.2	29.98	761.5	70	21.1	76	calm	0	0		0	0			0	0	clear	J. H. Atfield.
Yuma, Arizona	29.74	755.4	29.88	758.9	77.0	25.0	76	calm	0	0		0	0			0	0	clear	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.03	559.6			53.5	11.9	76	sw.	2	0.9		4 ck;k	2ks;s	nw.	w.	0.07	1.8	fair	Joaquin Gomez.
Bridgetown, Barbadoes, W. I	29.98	761.5	29.99	761.7	82	27.8	70	e.				5 k	6 ks	ne.	ne.	0	0	fair	J. A. Racker.
Buenaventura, U. S. C.	30.04	763.0	30.07	763.8	77	25.0	86	se.	4	1.8			10 ks		s.	0.70	17.8	cloudy	J. I. Plume.
Havana, Cuba	29.96	761.0	30.02	762.5	78	25.6	82	se.	2.4	1.1		0	0			0.85	21.6	clear	Chas. Hasselbrink.
Kingston, Jamaica, W. I.																			Robert Johnston.
Magua, San Domingo, W. I					72	22.2		calm			0	0	0			0	0		S. M. Pike.
Navassa, W. I.	29.86	758.4	29.94	760.5	82.5	28.1	78	e.	3	1.3		2 cs	4 ks	n.	e.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.03	762.7	30.03	762.7	79	26.1	82	se.			2	5 ck	5 k	e	e.	0.070	1.8		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.36	745.7	29.92	760.0	79	26.1	89	calm			0	7 c	2 s	s.	calm	0	0	fair	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77.6	25.3	98	ne.			1	0	7 ks		ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.64	752.8	29.70	754.4	50	10.0	100	se.			3		10 n			0.57	14.5	heavy rain	W. J. Fisher.
St. Thomas, W. I.	29.95	760.7	30.08	764.0	82	27.8	74	e.				0	3 k		e.	0.03	0.8	clear	Aug. Walloe.
York Factory, H. B.	30.05	763.3	30.11	764.8	41.0	6.7	92	nw.	14	6.3		3 k	2 s	nw.	nw.	inap.	inap.	fair	Fortescue & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, N. 41° 22′, W. 23° 42′	30.28	769.1	73.5	23.1	69	ssw.			2-3		5							d. clouds.
H. M. S. Alexandra, Port Said, Egypt	29.84	757.9	81.5	27.5	85	nw.			1-2		0							blue sky.
H. M. S. Amethyst, Rio de Janeiro, Brazil	29.96	761.0	70.5	21.4	88	nne.			1		1	ne.						misty.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.76	755.9				var.			2		0							blue sky.
H. M. S. Arab, Muscat, Arabia	29.67	753.6	85	29.4	81	se.			1		0							blue sky.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.25	768.6	61.5	16.4		calm			0		1							blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	30.23	767.8	48	8.9	85	calm			0		2							d. clouds.
H. M. S. Diamond, S 27° 35′, E. 155° 00′	30.13	765.3	68	20.0	84	ne.			5		3	nnw.				1	ne.	d. clouds.
H. M. S. Dido, N. 17° 55′, W. 77° 00′	30.02	762.5	82	27.8		nnw.			1		0							blue sky.
H. M. Dock-Yard, Bermuda, W. I.	30.08	764.0	77.5	25.3	69	ssw.			1-2		4	ssw.						d. clouds.
H. M. S. Eclipse, N. 30° 15′, E. 32° 30′	29.67	753.6	88.5	31.4		nw.			1		4							d. clouds.
H. M. S. Fantome, N. 13° 04′, W. 59° 37′	29.96	761.0	81	27.2		calm			0		7							d. clouds.
H. M. S. Flying Fish, N. 37° 19′ E. 126° 14′	29.92	760.0	75	23.9	90	sw.			1		4							d. clouds.
H. M. S. Gannet, S. 2° 12′, W. 79° 51′	29.92	760.0	67	19.4	87	sw.			2		10	ne.						d. clouds.
H. M. S. Iron Duke, N. 39° 10′ E. 127° 23′	29.97	761.2	73	22.8	100	nne.			1		6	nne.						d. clouds.
H. M. S. Lark, S. 10° 26′, E. 161° 47′	29.91	759.7	76.3	24.6	92	se.			1		5					1	se.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	28.81?	731.8?	58	14.4		ne.			4									d. clouds.
H. M. S. Magpie, N. 35° 09′, E. 128° 42′	29.93	760.2	77.5	25.3	82	se.			1		2	w.						d. clouds.
H. M. S. Minotaur, off Ramleh, Egypt	29.86	758.4	81	27.2	74	nw.			3		1							blue sky.
H. M. S. Northampton, Quebec, Quebec, Canada	30.02	762.5	63.5	17.5	100	calm			0		8	ssw.						d. clouds.
H. M. S. Pegasus, N. 6° 02′, E. 115° 57′	29.87	758.7	80	26.7	95	calm			0		10							d. clouds.
H. M. S. Sappho, N. 19° 44′, W. 155° 05′	30.00	762.0	69	20.6	?	wnw.			2		6	ene.				2	ne	showery.
H. M. S. Swiftsure, Coquimbo, Chili	30.06	763.5	57	13.9	87	n.			1		1							misty.
H. M. S. Sylvia, Montevideo, Uruguay	30.18	766.6	45.5	7.5	90	ne.			1		8							d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	29.74	755.4	55.5	13.1	96	n.			1		10							foggy.
H. M. S. Triumph, S. 18° 30′ W. 38° 43′	30.18	766.6	75	23.9	72	nne.			3		5	nne.				3	nne.	d. clouds.
H. M. S. Woodlark, Jask, Persia	29.67	753.6	87.5	30.8	75	se.			3-4		5	s.				1	s.	misty.
Portuguese Naval.																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.11	764 7	80.6	27.0	84	ne.			1		4		ne.					d. clouds.
Tamega, Macao, China	29.88	759.0	86.0	30.0	83	sw.			1		3							blue sky.
United States Naval.																		
Navy Yard, Pensacola, Fla.	29.90	759.4	77	25.0	91	sw.	5	2.2			8		se.	0.97	24.6			fair.
Navy Yard, Portsmouth, N. H.	30.07	763.8	60	15.6	82	calm	0	0			0			0	0			hazy.
Naval Hospital, Yokohama, Japan*	29.78	756.4	75.5	24.2	84	s.			1		10		sw.	0	0			cloudy.
Adams, Mare Island, Cal.			59	15.0	82	sw.			3		5			0	0	sm'h		fair.
Alaska, N. 12° 25′, W. 139° 55′	29.79	756.7	75	23.9	95	var.			2		10		n.	1.51	38.4	mod.	n.	cloudy.
Alliance, Portland, Maine	30.09	764.3	59	15.0	100	w.			0-1		8			0	0	sm'h		fair.
Ashuelot, Yokohama, Japan*	29.81	757.2	80	26.7	91	ssw.			1		2		sw.					clear.
Brooklyn, Rio de Janeiro, Brazil	30.01	762.2	70	21.1	90	n.	4	1.8			0			0	0	sm'h		clear.
Colorado, New York, N. Y.	30.02	762.5	61	16.1	88	ne.	6	2.7			10		ne.	0.67	17.0			raining.
Constellation, Chesapeake Bay*	29.94	760.5	73	22.8	90	sw.			6		10		sw.					cloudy.
Enterprise, Portland, Maine	30.07	763.8	60	15.6	100	calm			0		5		calm					fair.
Essex, Coquimbo, Chili	30.03	762.7	53	11.7	80	se.			0-1		2					sm'h		hazy.
Franklin, Norfolk, Va.	29.88	758.9	73	22.8	100	nw.	4	1.8			8		w.	0.09	2.3			fair.
Galena, S. 2° 20′, W. 29° 40′	30.06	763.5	77	25.0	100	se.			5		5		se.			mod.	sse.	fair.
Hartford, Funchal, Madeira*	30.08	764.0	73	22.8	76	ene.			3-5		5		ene.	0	0	sm'h	ene.	fair.
Independence, Mare Island, Cal.	29.84	757.9	56	13.3	100	sw.			3		10			0	0			cloudy.
Iroquois, N. 10° 55′ W. 90° 06′	29.87	758.7	80	26.7	82	ne.			3		10					sm'h	ne.	cloudy.
Kearsarge, Portland, Maine	30.08	764.0	58	14.4	94	calm			0		5					sm'h		hazy.
Lackawana, Callao, Peru*	29.93	760.2	59	15.0	94	nnw.			1		8							cloudy.
Lancaster, N. 38° 28′, E. 15° 25′*	29.99	761.7	81	27.2	90	w.			3		2		w.	0	0	long	nw.	fair.
Marion, S. 34° 54′, W. 56° 13′	30.14	765.5	50	10.0	72	n.			1		8		calm			sm'h		rainy.
Michigan, Marquette, Michigan	30.02	762.5	62	16.7	94	sw.			1		0							clear.
Minnesota, New York, N. Y.	30.07	763.8	67	19.4	69	ne.	2	0.9			10							overcast.
Monocacy, N. 37° 27′ E. 126° 33′	29.90	759.4	75	23.9	86	w.			1		2		calm					fair.
New Hampshire, Newport, R. I.	30.08	764.0	62	16.7	83	ne.			2		8		wnw.			sm'h		cloudy.
Nipsic, N. 38° 00′, E. 15° 38′*	29.97	761.2	81	27.2	62	ne.			3		2					sm'h		clear.
Onward, Callao, Peru†	30.11	764.8	58	14.4	100	nw.			1		8		e.			long	w.	cloudy.
Palos, Kobe, Japan*	29.80	756.9	79	26.1	86	w.			1		8		sw.					fair.
Passaic, Washington, D. C.			68	20.0	100	ne.			3		10							rainy.
Pensacola, Payta, Peru*	29.91	759.7	62	16.7	83	ese.	8	3.6			10		ese.	0	0	sm'h		cloudy.
Portsmouth, N. 35° 49′, W. 60° 03′*	29.96	761.0	71	21.7	85	ene.			5		2					sm'h		clear.
Powhatan, Norfolk, Va.	29.91	759.7	75	23.9	90	ssw.			1		10		s.					cloudy.
Quinnebaug, Alexandria, Egypt*	29.84	757.9	80	26.7	87	nnw.			3		0					sm'h		clear.
Ranger, Mare Island, Cal.	30.06	763.5	59	15.0	82	sw.			2		10			0	0			overcast.
Richmond, Yokohama, Japan*	29.82	757.4	77	25.0	91	s.			2		10		s.	0	0			cloudy.
Saratoga, N. 35° 24′ W. 8° 24′	29.94	760.5	75	23.9	90	nne.			4		0			0	0	mod.	ne.	fair.
St. Louis, League Island, Pa.	30.18	766.6	62	16.7	100	nne.			4		10			1.02	25.9			cloudy.
Swatara, Singapore, Malay*	29.77	756.1	78	25.6	86	n.			1		10		sw.			sm'h		raining.
Tennessee, Portland, Maine†	30.12	765.0	58	14.4	94	calm	0	0			8			0	0			cloudy.
Vandalia, Portsmouth, N. H*	30.07	763.8	63	17.2	89	calm			0		8		calm					fair.
Wabash, Boston, Mass.	30.10	764.5	62	16.7	83	calm	0	0			8		w.	0	0			cloudy.
Wachusetts, Fort Wrangle, Alaska†	30.30	769.6	54	12.2	93	sse.			1		10		calm	0	0	sm'h		misty.
Wyoming, off Port Royal Sound*	29.88	758.9	77	25.0	86	sw.	10	4.5			5		s.	0.05	1.3			fair.
Yantic, Portland, Maine	30.09	764.3	59	15.0	88	w.			1		8							cloudy.
MERCHANT MARINE.																		
Allan Line.																		
S. S. Grecian, Ismailia, Egypt*	29.77	756.1	98	36.7		calm			0		0			0	0			clear.
S. S. Nova Scotian, N. 39° 08′, W. 70° 23′	29.86	758.4	70	21.1		ese.			4		10		se.			mod	se.	raining.
S. S. Polynesian, N. 56° 11′, W. 27° 00′*	29.45	748.6	59	15.0		nnw.			9		8		n.	8 h'r	8 h'r	r'gh	n.	overcast.
S. S. Scandinavian, N. 54° 07′, W. 20° 35′*†	29.45	748.0	55	12.8		w.			7		7		w.	sh'rs	shr's	high	w.	d. clouds.
S. S. Waldensian, Halifax, Nova Scotia*	29.96	761.0	60	15.6		nnw.			4		2		nw.	0	0			clear.
American Steamship Company.																		
S. S. British Crown, N. 49° 10′, W. 35° 08′†	30.08	764.0	57	13.9		ne.			4		7		ne.	0	0	mod.	sw.	cloudy.
S. S. Indiana, Philadelphia, Pa†	29.92	760.0	66	18.9	90	ne.			5		10		ne.					raining.
S. S. Lord Clive, Liverpool, England*†	29.55	750.6				s.			4		10		s.	1 h'r	1 h'r			cloudy.
S. S. Lord Gough, Philadelphia, Pa	29.95	760.7	63	17.2		ne.			6		10		ne.	shr's	sh'rs			raining.
S. S. Ohio, Liverpool, Eng†.	29.52	749.8	58	14.4	93	s.			3		7		sw.					
Amsterdam Line.																		
S. S. Stella, N. 46° 41′ W 37° 14′	29.93	760.3	69.8	21		ese.			4		7		se.	3 h'r	3 h'r	4	se.	drizzling.
Anchor Line.																		
S. S. Alexandria, N. 40° 13′ W. 25° 19′	30.28	769.1	73	22.8		sw.			3		9		wsw.	0	0	2	w.	overcast.
S. S. Assyria, N. 48° 44′, W. 17° 27′*	29.92	760.0	64	17.8		w.			6		4		w.	0	0	r'gh	w.	clear.
S. S. Bolivia, N. 41° 09′, W. 65° 20′*†	30.06	763.5	62	16.7		ne.			1		8		ne.	0	0	light	ne.	misty.
S. S. Devonia, N. 42° 46′, W. 59° 37′†	29.91	759.7	56	13.3		nw.			5		8		nw.			short	n.	cloudy.
S. S. Dorian, N. 45° 36′ W. 41° 23′*	29.66	753.4	71	21.7		s.			3		10		w.	2 h'r	2 h'r	long	n.	cloudy.
S. S. Ethiopia, N. 54° 52′, W. 19° 28′	29.12	739.6	54	12.2	98	w.			6		8		nw.	8 h'r	8 h'r	h'vy	w.	raining.
S. S. Utopia, N. 39° 24′, W. 10° 04′†	30.36	771.1	72	22.2	75	n.			2		0			0	0	sl'l	n.	clear.
Atlas Line.																		
S. S. Alene, Aspinwall, Panama†	29.81	757.2																
S. S. Alpin, N. 37° 40′, W. 73° 46′	29.79	756.7				sw.			2		9		nw.	10 h'r	10 h'r		ne.	overcast.
British Meteorological Office.																		
Auckland, S. 48° 19′, E. 128° 46′	29.33	745.0	48	8.9	85	n.			6		10							raining.
S. Baroda, N. 32° 46′, W. 40° 51′	30.12	765.0	76.9	24.9	86	s.			2		2							blue sky.
S. S. Basil, N. 28° 43′ W. 22° 08′	30.16	766.1	75	23.9	68	nne.			3		10							d. clouds.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH METEOROLOGICAL OFFICE.—Continued.																		
S. S. British Merchant, N. 12° 06′, W. 27° 26′	30.02	762.5	79.6	26.4	82	s.			3		5							d. clouds.
Bk. Caldew, S. 34° 30′, E. 51° 19′	30.23	767.8	61.3	16.3	88	nnw.			6		9							d clouds.
S. S. Coppename, N. 8° 05′, W. 57° 18′	29.96	761.0	83	28.3	73	e.			4		4							blue sky.
S. S. City of Agra, S. 39° 32′, E. 84° 14′	29.79	756.7	53.6	12.0	89	wsw.			5		10							overcast.
S. S. Humboldt, Rio de Janeiro, Brazil	30.01	762.2	72.0	22.2	82	n.			2		1							misty.
S. S. Minho, S. 34° 36′, W. 58° 10′	30.16	766.1	50	10.0	96	sw.			4		10							raining.
S. S. Oamarn, N. 43° 55′, W. 30° 45′	30.14	765.5	75.5	24.2	81	s.			3–4		3							misty.
S. S. Rosetta, N. 12° 25′, E. 47° 53′	29.68	753.9	86.5	30.3	96	w.			4		0							blue sky.
CUNARD LINE.																		
S. S. Bothnia, N. 51° 08′, W. 15° 07′	29.74	755.4	59	15 0	?	w.			4		7		w.	5 h'r	5 h'r	h'vy	w.	showery.
S. S. Gallia, N. 46° 18′, W. 38° 33′	29.87	758.7	75	23.9	81	ssw.			4		8		sw.	sh'rs	sh'rs	sm'h		showery.
S. S. Marathon, Lake Ismalia, Egypt	30.03	762.7	100	37.8		calm			0		1			0	0	sm'h		clear.
S. S. Scythia, N. 42° 00′ W 60° 38′	29.84	757.9	63	17.2	88	wnw.			3		9		w.	10 h'r	10 h'r	slight	nw.	fair.
DONALDSON LINE.																		
S. S. Colina, N. 55° 41′, W. 16° 40′†	29.20	741.7				sw.			5		7		sw.			hv'y	w.	cloudy.
GENERAL TRANS-ATLANTIC COMPANY																		
S. S. France, N. 43° 56′, W. 46° 10′ †	29.63	752.7	73.4	23		sw.			4	10 ck		sw.		0	0		sw.	overcast.
S. S. Ville de Marseilles, N. 41° 48′, W. 51° 52′ *†	29.80	756.9	68	20.0		w.			6		7		w.	sh'rs	shr's	h'vy	w.	cloudy.
GUION LINE.																		
S. S. Arizona, N. 50° 36′ W. 26° 17′	29.92	760.0	53	11.7		wnw.			7		10		nw.	0	0	high	nw.	overcast.
S. S. Wisconsin, N. 42° 01′, W. 63° 00′	29.98	761.5	57	13.9		nnw.			4		10		w.	0	0	mod.	nw.	fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Cimbria, N. 40° 32′, W. 63° 52′	30.06	763.5	67	19.4		nne.			4		5		nne.	0	0	r'gh	ne.	fair.
S. S. Frisa, N. 50° 15′ W. 0° 30′*	29.74	755.4	63	17.2		sse.			3		5		s.	2 h'r	2 h'r	sm'h	sse.	fair.
S. S. Herder, N. 41° 59′. W. 49° 15′*	29.45	748.0	78	25.6		w.			1		8		s.	1 h'r	1 h'r	mod.	s.	cloudy.
S. S. Silesia, New York, N. Y.	29.99	761.7	62.6	17.0		ne.			4–5		10			13 h'r	13 h'r			rainy.
S. S. Vandalia, Hamburg, Germany *	29.46	748.3	59.7	15.4		sw			3		5		sw.	0	0			fair.
S. S. Wieland, N. 49° 45′. W. 12° 18′	29.85	758.2	64	17.8		w.			5–6		2		w.	9 h'r	9 h'r	5	w.	fair.
INMAN LINE.																		
S. S. City of Berlin, N. 42° 15′, W. 63° —′	30.04	763.0	59	15.0	70	nne.			4		10		nne.	0	0	mod.	nne.	cloudy.
JOHNSTON LINE.																		
S. S. St. Albans, N. 41° 43′, W. 52° —′*†	29.70	754 4				wsw.			6		8		wsw.	shr's	shr's	mod.	w.	showery.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 2° 00′ W. 30° 00′*†	30.19	766.8	78	25.6		sse.			5		4		sse.	0	0	long	se.	clear.
LEYLAND LINE.																		
S. S. Bulgarian, N. 51° 08′, W. 21° 22′*	29.83	757.7				wnw			7		9		wnw.	4 h'r	4 h'r	high	wnw.	cloudy.
MALLORY LINE.																		
S. S. Colorado, N. 34° 43′, W. 75° 51′†	29.92	760.0	80	26.7		ssw.			3		6		ssw.	h'vy	h'vy	mod.	ssw.	fair.
S. S. San Marcos, N. 24° 58′ W. 82° 37′	29.97	761.2				s.												fine.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Naples, Italy *†	30.05	763.3	76	24.4	82	wsw.			2		2			0	0			clear.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 25° 05′ W 63° 07′	29.69	754.1				ese.			3		2		ese.	0	0	sm'h	s.	clear.
S. S. Glenapp, S. 22° 05′, W. 41° 30′†	30.16	760.1				e.			4		3		e.	0	0	sm'h		squally.
MORGAN LINE.																		
S. S. Chalmette, N. 34° 25′, W. 76° 17′†	29.94	760.5	79	26.1		sw.			3		8		sw.	2 h'r	2 h'r	sm'h		cloudy.
NATIONAL LINE.																		
S. S. Denmark, N. 49° 30′, W. 14° 31′	29.88	758.9	57	13.9		wsw.			6		8		w.	4 h'r	4 h'r	long	w.	cloudy.
S. S. England, N. 40° 46′, W. 63° 59′†	30.10	764.5				nne.			5		2		ne.	0	0	mod.	ne.	clear.
S. S. Erin, N. 40° 33′, W. 69° 20′	30.11	764.8	59	15.0	94	e.			4		10		ene.	0	0	sm'h		fine.
S. S. Helvetia, Liverpool, Eng	29.54	750.3	63	17.2		nw			6		2		nw.	14 h'r	14 h'r			fine.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, St. Jago, Cuba, W. I.†	30.02	762.5	82	27.8		calm			0		1			0	0			fine.
NEW YORK HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Vera Cruz, Mexico †	29.95	760 7	83	28 3		nw.			3		5		ese.	0	0	small	ne.	fair.
S. S. Washington, N. 26° 15′, W. 80° 04′ *†	30.18	766.6	83	28.3		s.			2		2		s.	8 h'r	8 h'r	sm'h		fine.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Lone Star, N. 34° 10′, W. 75° 30′	30.00	762.0	80	26.7		sw.			2								se.	raining.
S. S. Maas, N. 47° 28′, W. 36° 17′	29.87	758.7	63	17.2		e.										mod.		cloudy.
NORTH GERMAN LLOYD.																		
S. S. America, N. 49° 53′, W. 18° 21′*	29.83	757.7	61.0	16.1	77	w.			6		9		w.	0	0	r'gh	w.	overcast.
S. S. Donau, N. 49° 38′, W. 11° 07′	29.86	758.4				w.			5		6		wnw.	3 h'r	3 h'r	r'gh	w.	cloudy.
S. S. Elbe, Bremerhaven, Germany	29.72	754 8	65.3	18.5	90	w.			3–4		10		w.	4 h'r	4 h'r			cloudy.
S. S. Graf Bismark, off Rio de Janeiro, Brazil	30.04	763.0	73.4	23.0		ne.			4		2		n.	0	0	light	n.	clear.
S. S. Habsburg, N. 40° 30′, W. 65° 21′	30.09	764.3	63.5	17.5		n.			4		0			0	0	mod.	n.	fair.
S. S. Koln, N. 39° 38′, W. 60° 47′*	29.97	761.2	67.0	19.4	76	nw.			5		8		nw.	0	0	r'gh	nw.	cloudy.
S. S. Kronprinz F. Wilhelm, Antwerp, Belgium	29.73	755.1				sw.			4		2		sw.	0	0			fair.
S. S. Main, N. 42° 11′, W. 63° 12′	29.97	761.2	60.8	16.0		n.			5		4		e.			mod.	n.	clear.
S. S. Neckar, N. 49° 55′ W. 20° 04′	29.94	760.5	61.0	16.1	66	w.			6		10		w.	0	0	cross	w.	hazy.
S. S. Oder, N. 53° 52′, E. 7° 29′	29.69	754.1	62.6	17.0		w.			5		6		w.	0	0	mod.	w.	fair.
S. S. Ohio, N 48° 56′, W. 19° 21′	29.97	761.2				w.			6		4		w.	0	0	r'gh	w.	fair.
S. S. Saller, Bremerhaven, Germany	29.69	754.1	54.5	12.5		s.			3		8		s.	4 h'r	4 h'r			cloudy.
S. S. Strassburg, N. 42° 55′, W. 59° 13′	29.89	759.2	58.5	14.7	97	n.			4		8		n.	6 h'r	6 h'r	mod.	n.	covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 40° 00′, E. 151° 28′†	30.03	762.7	72	22.2	90	ese.			4		5		se.	0	0	sm. h		fine.
S. S. Belgic, Hong Kong, China †	30.00	762.0	82	27.8	83	sw.			1		0			0	0			clear.
S. S. Coptic, N. 37° 53′, W. 122° 47′	30.02	762.5	53.0	11.7	93	var.			1		2		wnw.	0	0		nnw.	d. clouds.
S. S. Gaelic, N. 36° 08′, E. 131° 08′†	30.05	763.3	82	27.8	87	sw.			3		7		sw.			sm'h		cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga †	30.01	762.2				sw.			1		10?		sw.	0	0			clear?
S. S. Seminole, N. 39° 45′, W. 73° 05′†	29.92	760.0	70	21.1	90	ene.			6		10		ne.	0 h'r	0 h'r	r'g'h	ene.	cloudy.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter†	30.42	772.7	53	11.7	80	nnw.			1		0							clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Oregon, N. 40° 25′, W. 124° 32′ †	30.03	762.7	58	14.4	76	nnw.			3		0					h'vy	nnw.	hazy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 32° 39′ W 117° 15′†	29.99	761.7	69	20.6	85	ene.			1		8		n.			sm'h		cloudy.
S. S. City of Chester, San Francisco, Cal			54	12.2	93	sw.			2		5		ssw.					cloudy.?
S. S. Idaho, Nanimo, Vancouver's Island†	30.40	772.1	49	9.4	85	calm			0		0			0	0			clear.
S. S. State of California, San Francisco, Cal†	30.03	762.7	51	10.6	100	sw.			2		4		w.					fair.
S. S. Victoria, N. 41° 37′ W. 124° 45′†	29.98	761.5	50	10.0	86	se.			2					0	0	sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 21° 52′, W. 157° 15′	30.04	763 0	73	22.8	90	ne.			3		1		ne.	0	0	mod.	ne.	clear.
S. S. City of New York, Sydney, N. S. W†	29.93	760.2	64	17.8	78	sw.			1		2		w.	1 h'r	1 h'r			fair.
S. S. City of Pekin, Hong Kong, China †	30.05	763.3	82	27.8	83	sw.			1		0			0	0			clear.
S. S. City of Sydney, N. 36° 52′, W. 124° 58′†	30.06	763.5	60	15.6	82	w.			3		5?		nw.	0	0	mod.	nw.	cloudy.?
S. S. City of Tokio, N. 42° 27′ E. 171° 31′ †	30.43	772.9	60	15.6	?	ese.			3		8		ese.	0	0	small	se.	fine.
S. S. Colima, Panama, Panama†	29.84	757.9	77	25.0	91	nw.			3		8		ne.	0	0			cloudy.
S. S. Clyde, N. 18° 40′, W. 104° 56′†	29.95	760.7	85	29.4	79	ne.			1		8		ne.	0	0	long	sse.	cloudy.
S. S. Zealandia, Sydney, N. S. W.	29.94	760.5	63	17.2		se.			2		8		se.					
QUEBEC STEAMSHIP COMPANY.																		
S. S. Bermuda, Basseterre, W. I.†	30.04	763.0	83	28.3		e.					0		e.	7 h'r	7 h'r	gentle	ese.	showery
S. S. Muriel, N. 34° 48′, W. 69° 45′	30.01	762.2	79	26.1		sw.			4		5			0	0	mod.	s.	fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.			
RED STAR LINE.																		
S. S. Belgenland, N. 48° 13′, W. 15° 00′†	30.09	764.3	63	17.2	89	nw.			6		8		nw.	0	0	mod.	wnw.	foggy.
S. S. Nederland, N. 49° 58′, W. 25° 08′†	30.12	765.0	60	15.6	88	wnw.			6		10		nw.	0	0	high	nw.	cloudy.
S. S. Pennland, N. 46° 50′, W. 65° 18′	30.14	765.5				n.			5		8		ne.	1 h'r	1 h'r	light	e.	overcast.
S. S. Vaderland, N. 49° 26′, W. 8° 20′	29.69	754.1	62	16.7	88	w.			5		10		w.	0	0	mod	w.	hazy.
S. S. Waesland, Antwerp, Belgium	29.77	756.1	73	22.8	97	s.			4		2		ssw.	0	0			fair.
ROTTERDAM LINE.																		
S. S. Edam N. 49° 49′, W. 6° 27′	29.74	755.4	61.0	16.1	97	w.			6		9		w.	4 h'r	4 h'r	high	w.	squally.
S. S. Schiedam, N. 49° 30′ W. 12° 25′	29.85	758.2	62.6	17.0	70	w.			6		4		w.	0	0	long	w.	fair.
S. S. W. A. Scholten, Rotterdam, Holland*	29.57	751.1	65.9	18.8	73	w.			2		6		w.	rain	rain			fair.
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, N. 29° 04′, W. 74° 26′	30.04	763.0	83	28.3		s.			2		2		s.	¼ h'r	¼ h'r	g'tl	s.	fine.
STATE LINE.																		
S. S. State of Indiana, N. 45° 20′, W. 55° 00′†	29.79	756.7	55	12.8		nne.			4		5		ne.	3 h'r	3 h'r	cross	ne.	hazy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 52° 22′, W. 33° 24′†	30.23	767.8	50.0	10.0	?	nw.			4		10		nw.	0	0	cross	nw.	covered.
WARREN LINE.																		
S. S. Iowa, N. 51° 43′ W. 14° 43′*†	29.80	756.9	54	12.2		wsw.			6		9		wsw.	5 h'r	5 h'r	hv'y	w.	cloudy.
WHITE STAR LINE.																		
S. S. Adriatic, N. 43° 17′, W. 47° 36′*†	29.88	758.9	77	25.0	86	w.			2		2		nw.	0	0	gentle	wnw.	fair.
S. S. Celtic, Liverpool, Eng†	29.64	752.8	61	16.1	88	sw.			4		10		sw.	shr's	shr's			overcast.
S. S. Republic, N. 47° 48′, W. 43° 27′†	29.95	760.7	62	16.7	94	ese.			5		10		ese.	8 h'r	8 h'r	mod.	se.	raining.
WILSON LINE.																		
S. S. Otranto, N. 42° 53′, W. 68° 02′†	30.22	767.6	60	15.6		calm			0		1							clear.
S. S. Romano, N. 43° 52′ W. 33° 25′	29.99	761.7	78	25.6		ssw.			4		2		nw.	0	0	mod.	wnw.	clear.
S. S. Salerno, N. 49° 27′, W. 29° 03′*	29.80	756.9	63	17.2		wnw.			6		5		nw.	9 h'r	9 h'r	h'vy	nw.	rain & fog.
WINSOR LINE.																		
S. S. Catherine Whiting, Delaware Bay†	30.00	762.0	70	21.1		ne.			2				ne.					light rain
MISCELLANEOUS.																		
Bk. Adelaide, N. 12° 01′, W. 45° 54′*†	30.00	762.0	84	28.9		ne.			5		3	ssw.	ene.	0	0	short	ene.	threatening.
Schr. Ajax, N. 34° 50′ W. 75° 40′†	30.01	762.2				nw.			1		10		w.	2½h'r	2½h'r	sm'h	s.	squally.
Sch. Anna A. Holton, N. 23° 09′ W. 81° 45′†	30.01	762.2	86	30.0		se.			4		3		se.	0	0	mod.	se.	clear.
Bk. Anna Thorman, S. 5° 54′, E. 106° 11′	29.90	759.5	82.8	28.2	69	s.			1	2 c		se.		0	0			clear.
S. S. Antonio Lopez, Santander, Spain*	30.09	764.3	70.5	21.4	79	w.			4		10			0	0	mod.		cloudy.
Schr. Asa Eldridge, N. 26° 02′, W. 81° 58′†	30.16	766.1				s.			3		2		ssw.	0	0	sm'h		
Bk. Aureola, N. 24° 47′, W. 62° 07′*†	30.25	768.3	92?	33.3?		ene.			3		2		e.	0	0	light	e.	clear.
Bk. B. F. Watson, N. 3° 53′, W. 25° 37′†	30.00	762.0	79	26.1		se.			5		2			0	0	mod	se.	fine.
Bk. Bremen, N. 45° 36′. W. 50° 05*†	29.74	755.4				sse.			3		10		s.	5 h'r	5 h'r	cross		cloudy.
S. S. Burswell, N. 36° 38′, W. 45° 10′*†	29.97	761.2	80	26.7		wsw.			4		7		wsw.	4 h'r	4 h'r	con.	var.	squally.
Bk. Cato, Hudiksvall, Sweden*†	29.77	756.1				s.			2									cloudy.
Bk. Celestina, N. 34° 29′ W. 37° 36′*†	30.00	763.5				calm			0		9			4 h'r	4 h'r	long	e.	raining.
S. Dora, S. 33° 00′ W. 23° 20′†	30.29	769.4	62.6	17.0		nnw.			1		8 s		nnw.	1 h'r	1 h'r	long	sw.	cloudy.
Schr. Edith R. Seward, N. 37° 38′, W. 76° 10′*†	29.96	761.0	78	25.6		w.			1		8		calm	3 h'r	3 h'r	sm'h		cloudy.
S. E. J. Spicer, N. 48° 33′, W. 7° 40′*	29.99	761.7	64	17.8		wnw.			5		10		nw.	mist	mist	mod.	nw.	overcast
Bk. E. L. Pettingill, N. 40° 03′, W. 150° 22′†	30.30	769.6				ssw.			6		1		s.	0	0	mod	sw.	
S. Enoch Train, Bremerhaven, Germany†	29.93	760.2				w.			3		4		w.					showery.
Bk. Essex, Aden, Arabia*†	29.90	759.4	90	32.2		ssw.			4		0			0	0			fine.
Bk. Franklin, Stettin, Prussia*†	29.93	760.2				sw.			2		2			0	0			fair.
Bk. Freya, N. 48° 30′, W. 21° 26′			64	17.8		nnw.			5		0			0	0	high	nw.	clear.
S. Glendon, N. 27° 40′, W. 46° 20′†	30.13	765.3	88	31.1		ssw.			2		9		ssw.	0	0	sm'h		fair.
Bk. Godfrey, N. 12° 26′, W. 29° 12′	29.95	760.7	81.9	27.7	87	sse.			3		5		sse.	shr's	shr's	mod		drizzling
S. Grecian, N. 3° 10′, E. 107° 30′*†	29.95	760.7	82	27.8		sw.			6		10			4 h'r	4 h'r	mod.	s.	raining.
Bk. Gronsvaer, N. 5° 40′, W. 15° 20′†	30.00	762.0				s.			4		2		s.	0	0	sm'h	s.	fair.
Bk Hattie G. McFarland, N. 39° 51′, W. 71° 22′*†	30.00	762.0	64	17.8		ene.			4		10		e.	4 h'r	4 h'r	r'gh	e.	stormy.
Schr. Henry Denison, N. 18° 27′ W. 78° 23′†	29.96	761.0				e.			6		6		se.			sm'h		fair.
Bk. Horace Scudder, N. 26° 21′, W. 66° 00′†	30.27	768.8	84	28.9		ese.			1		2		se.	0	0	long	e.	blue sky.
S. Ivy, S. 52° 42′ W. 53° 55′†	30.23	767.8	37	2.8		sw.			4		8		sw.	0	0	mod.	ssw.	foggy.
S. Ismir, N. 17° 34′ E. 116° 30′†	29.94	760.5				calm			0		2		calm	0	0	sm'h		fine.
Schr. Jennie N. Huddell, Chester, Pa†	29.92	760.0	72	22.2	100	ene.			3		10		e.	h'vy	hv'y			stormy.
Schr. John L. Thomas, N. 16° 48′, W. 77° 20′*†	30.08	764.0				ene.			4		2		e.	0	0	h'vy	ene.	fine.
Bg. John Wesley, Guantanamo, Cuba, W. I†	29.88	758.9				nnw.			1		2			0	0			clear.
Bk. Joseph A. Ropes, S. 18° 44′, E. 50° 06′*†	30.26	768.6	74	23.3	76	se.			4		3		se.	0	0	mod.	e.	fair.
Bkt. Josephine, Havana, Cuba, W. I.†	30.01	762.2	82	27.8	74	ese.			1		0			½h'r	½h'r			hazy.
Bkt. Kryolith, N. 39° 22′ W. 71° 28′*†	29.94	760.5				e.			7		10			rain	rain	mod	ese.	raining.
Light House Tender, Laurel, Key West, Florida†	30.05	763.3	86	30.0		se.			1		4		sse.	1 h'r	1 h'r			fair.
S. S. Madrid, N. 43° 31′, W. 51° 17*†	29.80	756.9	65	18.3		wsw.			4		2		wsw.	2 h'r	2 h'r	mod.	wsw.	clear.
Schr. Maggie Abbott, N. 19° 26′, W. 72° 43′†	29.99	761.7												0	0			
S. S. Malabar, N. 38° 04′, W. 178° 00′†	30.34	770.6				ne.			3		0			0	0	mod.	s.	clear.
S. Minnie N. Gerow, N. 40° 35′, E. 3° 01′.†*	30.02	762.5				nw.			4		2		w.				nw.	fine.
S. M. P. Grace, S. 6° 15′, W. 116° 57′*	29.97	761.2	76	24.4		sse.			3				s.	0	0	short	sse.	
Bk. National Eagle, Antwerp, Belgium†	29.79	756.7				sw.			6		5		sw.	0	0			cloudy.
S. S. Nebo, N. 37° 34′, W. 60° 45′*†	29.95	760.7				wnw.			4		3		wsw.	0	0	short	nw.	clear.
Schr. Ocean Traveller, N. 19° 20′, W 65° 00′†	30.04	763.0				e.			5		5		e.			mod.	se.	squally.
S. Oracle, N. 30° 50′, W. 44° 00′*	30.17	760.3	81	27.2	95	sw.			3		3 k					mod.	sse.	clear.
S. Orealla, N. 2° 12′, W. 23° 17′*	29.95	760.7				sse.			4		5		sse.	0	0	long	sse.	clear.
S. St. Francis, N. 14° 48′, W. 32° 44′†	29.90	759.4	80	26.7		ese.			3		2		e.	0	0	long	ene.	fine.
Schr. S. B. Hubbard, Gardiner, Me†	30.21	767.3	63	17.2		calm			0		10			0	0			dense fog.
Bk. Sunbeam, N. 38° 05′, W. 12° 00′†.	30.29	769.4	70	21.1	90	nne.			6		5		nne.	0	0	r'gh	nne.	fair.
S. S. Sunbeam, Swansea Bay, Wales	29 71	754.6	61	16.1	88	ssw.			5		10		sw.					overcast
S. Sovereign of the Sea, S. 57° 38′, W. 78° 13′*†	29.35	745.5	40	4.4	100	ne.			6		10		ne	5 h'r	5 h'r	chop	nnw.	drizzling.
U. S. F. C. S. S. FishHawk, Wood's Hole, Mass†	30.24	768.1	60	15.6	88	ne.			2		8		ene.	0	0			cloudy.
Schr. Victor Ping, Santa Marta, U. S. C.						calm			0		2							fair.
Schr. Viola Reppard, Savannah, Ga†	29.95	760.7	82	27.8		sw.			2		10		ssw.	0	0			cloudy.
Bg. Wauburn, N. 36° 06′, W. 73° 50′*†	30.10	764.5				sw.			4		3		w.			sm'h		
Bk. Warden Law N. 33° 18′, W. 22° 53′*	30.30	769.6				e.			2		10		ene.	0	0	sm'h	ne.	fair.
S. Wm. Woodbury, N. 56° 33′ W. 19° 59′*	29.22	742.2	58	14.4	87	ne.			6		8		ne.			h'vy	sw.	

International Chart I. August 28, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 29, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.08	764.0	79.9	26.6	84	s.			1		0			0	0	clear	Bouvier.
Algiers			30.10	764.4	80.6	27.0	66	ne.			2		0			0	0	clear	Thève.
La Calle			30.10	764.5	76.6	24.8	77	ssw.			6		0			0	0	clear	Fonfrède.
Tunis			30.09	764.2															Jacques.
Saida			30.12	765.0															Perès.
Tebessa			30.11	764.8	81.0	27.2	48	wsw.			1		0			0	0	clear	Rigaud.
Geriville					96.4	35.8	6	wsw.			1		3			inap.	inap.	pretty fair	Louchamp.
Laghouat			30.15	765.8	97.2	36.2	23	ne.			2		0			0	0	clear	Abraham.
Biskra			30.14	765.5	87.8	31.0	39	se.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.69	754.1	29.78	756.4	55.0	12.8	76	n.	4	1.8			9			0	0	threatening.	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.30	744.2	29.82	757.5	74.5	23.6	51	sw.			5		3			0.307	7.8		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.01	736.9	29.75	755.7	69.8	21.0	55	wsw.	4.9	2.2			10			0	0		Dr. Wierzbiski.
Eperies	29.04	737.7	29.89	759.3	67.3	19.6	70	s.			3	0	7 ks		n.	0	0		Julius Mikolik.
Gratz	28.65	727.7	29.85	758.3	67.1	19.5	86	w.			1		4			0.067	1 7		Andreas Rospini.
Hermannstadt	28.62	726.9	30.00	762.0	71.4	21.9	73	wnw.			2		1			0	0		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.50	723.8	29.78	756.4	70.2	21.2	61	n.			1		3			0.421	10.7	clear	The Staff.
Lemberg	28.93	734.8	29.88	759.0	68.0	20.0	54	sw.			4		5			0	0		Dr. T. Stanecki.
Pola	29.91	759.8	30.02	762.5	77.5	25.3	64	sse.			2		8			0	0		I. R. Hydrographic Office.
Szathmar	29.46	748.2	29.91	759.6	71.4	21.9	55	sw.			3		5			0	0		Joseph Midliuszky, S. J.
Szegedin	29.66	753.3	29.93	760.1	74.5	23.6	44	s.			2		6			0	0		Karl Stancel.
Trieste	29.92	760.0	30.02	762.6	75.2	24.0	57	sw.			2		10			0.362	9.2		Royal Academy.
Vienna	29.17	740.9	29.86	758.4	69.8	21.0	72	se.			1		1			0	0		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.29	744.0	29.39	746.5	58.0	14.4	79	nne.	18	8.0			7			0.160	4.1	d. clouds	W. Boswell
Armagh, Observatory	29.30	745.7	29.59	751.6	57.2	14.0	73	nw.	11	4.9			10					overcast	S. Call.
Bidston, Liverpool Obs'y			29.46	748.3	57.9	14.4	69	wnw.	31	13.9			3					d. clouds	John Hartnup.
Bolton, Sharples	28.90	734.0	29.42	747.3	58.0	14.4	76	wnw.	15	6.7			5					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	28.99	736.3	29.38	746.2	58.4	14.7	65	nw.			2		5			0.04	1.0	d. clouds	McLandsborough & Preston
Bridgetown, Barbadoes	29.97	761.2	30.00	762.0	85.0	29.4	68	ne.			2		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.36	745.7	61.4	16.3	82	w.			2.0		6					raining	John McLaren.
Chatham, School M. E.	29.28	743.7	29.41	747.0	56.1	13.4	80	sw.			2		5			blank	blank	d. clouds	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.51	749.5	29.73	755.1	60.6	15.9	70	wnw.			7		6					squally	The Staff.
Fort Napier, Natal	27.74	704.6	29.95	760.7	85.4	29.7	14	nw.			5		4					blue sky	Corpl. F. Milner, A. H. C.
Free Town, Sierra Leone	29.73	755.1	29.96	761.0	81.0	27.2	78	w.			1		8					drizzling	Sergt. John Robinson.
Gibraltar, Mediterranean	30.00	763.5	30.11	764.8	76.9	24.9	81	ene.			3		0					blue sky	Corpl. F. Norris, A. H. C
Glasgow, Observatory	29.24	742.7	29.44	747.8	58.9	14.9	57	n.			3		8 n					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.24	742.7	29.40	746.7	60.4	15.8	68	wsw.			4		2					d. clouds	The Staff.
Guernsey	29.41	747.0	29.71	754.6	60	15.6	76	wnw.			5		5					showery	A. Collenette, F. M. S.
Kew, Observatory	29.39	746.5	29.43	747 5	59.1	15.1	73	wsw.	17	7.6			7					threatening.	The Staff.
Leicester, Museum	29.14	740.1	29.39	740.5	60.0	15.6	68	sw.			1		10					raining	J. C. Smith.
Malta, Mediterranean	30.01	762.2	30.08	764 0	77.2	25.1	90	ne.			2		6					d. clouds	W. D. Ballau.
Nassau, Bahamas	30.04	763.0	30.09	764.3	86.5	30.3	63	se.			3		4					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College																			Warren Middleton.
Oxford, Radcliffe Obs'y	29.20	741.7	29.43	747.5	60.9	16.1	68	wsw.			4		4						The Staff.
Plymouth	29.59	751.6	29.66	753.4	60.5	15.8	73	nw.			3		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.50	749.3	55.2	12.9	76						8					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.88	758.9	29.93	760.2	82.2	27.9	51	ne.			3		3					d. clouds	W. H. Lyne.
Sheffield	29.14	740.1	29.42	747.3	69.1	20.6		wnw.			2		10			0.07	1.8	overcast	W. F. Cooper.
Siloth Rectory	29.39	746 5	29.42	747.3	57.0	13.9	81	nw.			2		10			0.015	0.4	overcast	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.47	748.5	56.9	13.8	66	wnw.	19	8.5			10					overcast	I. New.
Stratfield Turgiss					60.2	15.7	82	w.			3		10					thnd'er st'rm	Rev. C. H. Griffiths, F. M. S
Truro, Royal Institution	29.78	756.4	29.79	756.7	65	18.3	68	nw.			6		6					d. clouds	W. Newcombe.
Valencia, Observatory	29.80	756.9	29.83	757.7	59.6	15.3	79	wnw.	20	8.9			4					misty	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.08	764.0	30.12	765.0	55	12.8	79	n.	12	5.4		0	2 s		n.	0	0	fair	H. J. Cundall, C. E.
Chatham, N. B*	30.12	765.0	30.19	766.8	49	9.4	93	w.	1	0.4		4 c	0	w.		0	0	fair	G. A. Blair.
Father Point, Quebec*	30.11	764.8	30.14	765.5	55	12.8	90	w.	11	4.9		8 c	hz.	ne.		0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.20	743.2	30.09	764 3	48	8.9	93	w.	8	3.6		0	0			0.13	3.3	clear	James Stewart.
Halifax, N. S*	29.98	761.5	30.11	764 8	53	11.7	83	n.	9	4.0		2 k	0	n.		0	0	clear	A. Allison.
Kingston, Ontario*	29.81	757.2	30.14	765.5	60	18.9	87	ne.	4	1.8		0	0			0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	30.06	763.5	30.15	765.8	61	16.1	96	n.	6	2.7			fg.			0	0	foggy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.46	748.3	30.14	765.5	62	16.7	100	e.	4	1.8			fg.			0	0	foggy	Rev. R. Mosley.
Port Dover, Ontario	29.45	748.0	30.13	765.3	62	16.7	94	n.	5	2.2		0	0			0	0	clear	H. Morgan.
Port Stanley, Ontario	29.49	749.0	30.12	765.0	59	15.0	96	ne.	3	1.3		0	0			0	0	clear	M. Payne.
Quebec, Quebec*	29.80	758.4	30.17	766.3	59	15.0	93	calm			0	0	hz.			0	0	hazy	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.72	754.9	30.17	766.3	54	12.2	100	calm	0	0			10 n			0	0	foggy	W. H. McIntyre.
Saugeen, Ontario*	29.42	747.3	30.11	764.8	64	17.8	93	e.	4	1.8		0	0			0	0	clear	
St. Andrews, N. B	30.10	764.5	30.15	765.8	52	11.1	79	calm	0	0		0	0			0	0	clear	
Sydney, C. B*	30.02	762.5	30.08	764.0	53	11.7	74	n.	13	5.8		0	4 k		n.	0	0	fair	T. C. Hill, C. E
Toronto, Ontario*	29.77	756.1	30.15	765.8	63	17.2	87	calm	0	0		0	0			0	0	clear	Magnetic Observatory.
Yarmouth, N. S*	30.04	763.0	30.11	764.8	51	10.6	83	ne.	1	0.4		0	0			0	0	clear	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.77	730.7	30.16	766.1	56.0	13.3	88					0	0			0	0	clear	Wm. Wylie.
St. Johns, Newfoundland	29.817	757.27	30.067	763.57	48	8.9	100	n.	3	1.3			fg.			0.50	12.7	foggy	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	29.92	760.0	29.94	760.5	61	16.1	88	w.	13.6	6.1		10 ck	0			0	0	hazy	C. Hansen.
Cape Town, C. G. H. Obs'y	30.01	762.2	30.04	763.0	62.1	16.7	82	nw.	23	10.3		10	9			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p sec	Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Lower. 0-10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
Chinese (*Sub-series*).																			
Hankow																			
Zi-Ka-Wei, near Shanghai	29.77	756.2	29.80	756.8	74.3	23.5	96	sw.	3.4	1.5		ck	10 k			2.921	74.2	covered	N. Titoushkin.
Danish.																			M. Marc Dechevrens, S.J.
Copenhagen	29.38	746.3	29.43	747.5	60.4	15.8	80	s.	18	8			8						
Fanöe	29.32	744.8	29.34	745.3	61.5	16.4	69	w.			4		3						Oversergent Fischer.
Godthaab, Greenland	29.96	760.9	30.00	762.0	41.9	5.5	93	ene			3		9			0.094	2.4		Overloerer Lauridsen
Ivigtut	29.99	761.8	30.01	762.3	41.9	5.5		calm			0		10						S. Kleinschmidt.
Stykkisholm, Iceland	29.96	760.9	30.00	762.0	40.6	4.8	73	e.			7		0					raining	
Thorshavn	29.61	752.0	29.64	752.9	55.0	12.8	76	n.	13	6			7						A. O. Thorlacius.
Vestervig	29.19	741.5	29.28	743.8	60.3	15.7	84	wsw.			6		5					raining	Overloerer Bergh.
French.																			Loearer Oesterbol.
Agen, Normal School	29.46	748.3	30.10	764.5	69.8	21	82	w.			2		8			0.39	10.	raining	M. Labroue, Directo.
Alençon, Normal School	29.23	742 5	29.78	756.5	64.4	18	100	sw.			4		kn			0.04	1.		M. Nicot, Director.
Arras, Engineer School	29.30	744.1	29.54	750.4	57.9	14.4	86	e.			6		10 n;k		e.	0.335	8.5	raining	M. Fénéon, Command't.
Avignon, Normal School	29.93	760.3	30.01	762.3	83.5	28.6	48	w.			2		5		sw.	0	0	cloudy	M. Giraud, Director.
Bar-sur-Seine	29.22	742.3	29.76	755.9	68.0	20.0	51	sw.			4		10		w.	0.071	1.8	covered	M. Saillard, Director.
Beauvais, Normal School	29.41	747.0	29.67	753.6	63.5	17.5	65	wsw.			3		8		wsw.	0.083	2.1	very cloudy	M. Frère Eugène Marie.
Besançon, Normal School	28.92	734.5	29.79	756.6	65.8	18.8	71	s.			1		10		nw.	0.31	8.	covered	M. Gobin, Director.
Bordeaux, Observatory	29.78	756.5	30.04	763.0	66.2	19.0	97	wsw.			2		10			0.130	3.3	raining	M. Rayet, Director.
Bourges, Normal School	29.30	744.1	29.84	757.8	70.7	21.5	55	sw.							sw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.68	753.8	29.92	760 0	64.4	18.0	67	wnw.			4		9		wnw.	0.087	2.2		M. de Kermaree, Dir.
Caen, Normal School	29.60	751.9	29.67	753.7	57.2	14	80	w.			3		5		w.	0.28	7.	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.52	749.8	29.83	757.7	69.4	20.8	43	w.			8		2		w.	0.150	3.8	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.10	739.2	29.60	751.7	65.5	18.6	60	nw.			6		8			0.087	2.2	¾ covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.59	726.2	29.89	759.2	73.4	23.0	65	sw.			3		8			0.004	0.1	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.08	738.7	29.91	759.6	67.1	19.5	83	sw.					10			0.622	15.8		M. de Villemontée, Dir.
Commercy, Normal School	28.19	716.0	29.69	754.0	65.1	18.4	86	w.			4		10 kn	w.	w.	0.043	1.1	light rain	Dr. Coulet, Director.
Gap, Normal School	27.47	697.8	29.93	760.3	71.2	21.8	54	n.			2	0	2 kn		n.	0.047	1.2		M. Jeanginard, Director.
Gréasque, du Rhone	28.96	735.6	30.04	762.9	79.0	26.1	49	w			2		3		w.	0	0		M. Kina, Director.
Grenoble, Normal School	29.16	740.6	29.91	759.6	67.3	19.6	91	e.			1		8kn		nw.	0.165	4.2		M. Ablard, Director.
Lamballe, Normal School					66.2	19	54	w.			4		5		w.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.52	749.8	30.07	763.7	74.3	23.5	71	w.			2		5			0.94	24.	cloudy	M. Chauvin, Director.
Lorient, Naval Observatory	29.82	757.3	29.92	759.9	63.3	17.4	88	w.			4		5		nw.	0	0	½ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	28.93	734.8	29.96	761.0	68.4	20.2	86	ssw.			1		10		w.	0.185	4.7	light rain	M. André, Director.
Mans, Normal School	29.55	750.5	29.85	758.1	66.4	19.1	53	w.			6		8		w.	0.020	0.5	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.81	757.2	30.08	763.9	72.3	22.4	70	w.			2		2		wnw.	0	0		M. Stephan, Director.
Montlouis																			M. Cave, for Dr. Fines.
Montpellier, Normal School	29.88	758.9	30.00	762.0	71.2	21.8	75	nw.			3		2			0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	28.93	734.8	29.69	754.2	60.8	16.0	89	ssw.			2		8 kn		ssw.	0.020	0.5	very cloudy	M. Hasse, Director
Nantes, Observatory	29.79	756.6	29.95	760.7	67.3	19.6	60	wnw.			2-4	0	8k;kn		wnw.	0.024	0.6		M. Larocque, Director.
Perpignan, Observatory	29.96	761.0	30.07	763.7	82.9	28.3	44	se.	11.2	5.0			1		nw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.42	544.1			44.4	6.9		sw.			1		5		sw.	0.035	0.9	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.00	736.5	30.02	762.5	75.2	24	46	s.			1		2			0	0	slightly cld'y	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.10	637.5			51.3	10.7	100	w.			8		10			0.606	15.4	rain & fog	M. Allnard, Director.
Rochefort, Naval Obs'y	29.96	760.9	29.99	761.7	67.6	19.8	83	w.			3		8		w.	0.35	9.	¾ covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.74	755.4	29.95	760.7	66.2	19	69	w.			3		5		e.	0.035	0.9	cloudy	M. Mouillot, Director.
Rodez, Normal School	27.96	710.2	30.05	763.3	63.0	17.2	95	w.			3		5		sw.	0.138	3.5	cloudy	M. Seger, Director.
Rouen, Normal School	29.64	752.9	29.69	754.1	61.9	16.6	73	w.			4		5	sw.		0.20	5.	cloudy	M. Brotier.
Saint Maur, Observatory	29.55	750.5	29.71	754.7	66.6	19.2	51	wsw.			3		10		wsw.	0.008	0.2		M. Renou, Director.
Toulouse, Observatory	29.43	747.4	30.15	765.8	74.3	23.5	68	w.			2		5	w.		0.059	1.5	cloudy	M. Baillaud, Director.
Tours	29.68	753.9	29.86	758.4	68.0	20.0	53	wsw.			6		8		sw.	0.028	0.7	very cloudy	M. de Tastes.
Versailles, Observatory	29.22	742.3	29.72	754.8	63.7	17.6	50	nw.			8					0.008	0.2		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.42	747.3	29.71	754.7	66.2	19.0	49	wsw.			3		10		wnw.	0.020	0.5		M. Marié Davy, Director
German.																			
Ansbach	28.32	719.2	29.72	754.8	65.1	18.4	70	sw.			4		10	sw.		0.035	0.9		Prof. Jnedt.
Bamberg	28.82	731.9	29.66	753.3	63.7	17.6	80	sw.			2	0	8 n		sw.	1.200	32.0	thund'r st'm	Prof. Dr. Roh.
Berlin	29.43	747.4	29.60	751.8	61.9	16.6	86	s.			2		10			0.079	2.0		Prof. Dr. Arndt.
Breslau	29.26	743.2	29.79	756.6	66.9	19.4	59	sw.			2		10			0.010	0.4	sprinkling	Royal University Obs'y.
Carlsruhe	29.23	742.5	29.65	753.1	69.1	20.6	67	sw.			9		5	sw.		0.490	12.6		Albert Senz.
Cassel	28.84	732.5	29.55	750.6	63.9	17.7	72	sw.			6		8	sw.		0.748	19.0	thund'r st'm	Dr. H. Möhl.
Frankfort-on-the-Main	29.28	743 0	29.62	752.4	64.0	17.8	87	sw.			1		10			0.380	9.8		Physical Society.
Friedrichshafen	28.43	722.2	29.82	757.3	68.7	20.4	68	ssw.			5		8	sw.		0.413	10.5		Wilhelm, Chief Tel.
Hamburg	29.37	745.9	29.46	748.2	62.6	17.0	64	wsw.			5		8			0.051	1.3		E. Preller.
Kiel	29.41	747.0	29.43	747.4	59.7	15.4	71	wsw.			3		10			0.007	1.7		Prof. Dr. G. Karsten
Leipsic, Astron'l Obs'y	29.22	742.2	29.63	752.6	62.2	16.8	90	s.			4		9	sw.				raining	H. Leppig, Asst.
Magdeburg	29.38	746.2	29.56	750.8	64.0	17.8	87	s.			1	0	8 ks		sw.	0.114	2.9		Dr. Assmann.
Memel	29.66	753.4	29.71	754.6	63.1	17.3	72	sw.			4	0	9 s					showery	Issermann.
Munich	28.04	712.1	29.89	759.2	67.1	19.5	62	w.			2		9	w		0.150	3.8		Dr. C. Lang.
Neufahrwasser	29.63	752.7	29.65	753.1	70.2	21.2	57	sw.			3		10			0.012	0.3		A. Lothes.
Neustadt, Palatinate	29.10	739.0	29.61	752.2	64.2	17.9	84	wsw.			1		9	sw.		0.401	11.7		Dicknether.
Stuttgart	28 78	730.9	29.63	752.7	68.4	20.2	62	w.			6		9	w.		0.185	4.7		Prof. Dr. Schoder.
Wustrow	29.47	748.4	29.49	749.1	61.9	16.6	72	wnw.			4	0	8 k		s.	0	0		Profs. Brandes & Reimer
Greek.																			
Athens	29.54	750.4	29.91	759.6	90.0	32.2		ne.			1.0		1 k			0	0		Schmidt & Wourlisch
Indian.																			
Kurrachee	29.73	755.0	29.78	756.3	84 9	29.4	76	sw.	22.0	9.8			6			0	0	d. clouds	
Deesa	29.20	743.2	29.72	755.0	89.6	32.0	55	sw.	10.0	4.5			8	w.		0	0	d. clouds	
Bombay	29.77	750.1	29.81	757.1	83.4	28.6	74	w.	7.0	3.1			10		w.	0	0	overcast	
Poona, Yarrowda	27.93	709.4	29.78	756.3	78.8	26.0	63	w.	12.0	5.4			6	w.	w.	0	0	d. clouds	
Trichinopoly	29.50	749.2	29.77	756.2	86.6	30.3	64	ese.					10			0.93	23.6	overcast	
Bellary	28.25	717.6	29.70	754.4	86.0	30.0	54	nne.	9.5	4.2			9			0	0	gloomy	
Belgaum	27.24	692.0	29.79	756.7	72.8	22.7	93	wnw.	10.0	4.5			9	ne.	w.	0.32	8.1	thund'r storm	
Lahore	28.88	733.5	29.61	752.1	84.0	28.9	77	nw.	4.0	1.8			10			0.13	3.3	overcast	
Roorkee	28.82	732.0	29.72	754.9	76.8	24.9	94	e.	3.0	1.3			10			1.27	32.3		
Agra	29.06	738.1	29.62	752.4	82.3	27.9	88	calm	0	0			10		w.	0	0	d. clouds	
Nagpur	28.74	729 9	29.79	756.6	75.2	24.0	95	calm	2.0	0.9			10		sw.	0.60	15.2	showery	
Jubbulpore	28.41	721.6	29.76	755.9	81.0	27.2	79	nw.	2.0	0.9			10		w.	2.33	59.2	overcast	
Lucknow	29.35	745.6	29.73	755.0	82.2	27.8	81	calm	0.5	0.2			7	ese.		2.19	55.6	d. clouds	
Allahabad	29.44	747.9	29.76	755.8	79.9	26.6	92	sse.	2.0	0.9			9			0.70	19.3	overcast	
Patna	29 61	752.1	29.80	756.8	76.7	24.8	92	calm	3.4	1.5			10			0.65	16.5	drizzling	
Hazaribagh	27.76	705.2	29.77	756.2	77.3	25.2	88	nnw.	7.4	3.3			10		n.	0.84	21.3	thund'r str'm	
Cuttack	29.69	754.2	29.77	756.2	84.5	29.2	78	s.	2.0	0.9			4			0.14	3.6	d. clouds	
Calcutta, Alipore	29.79	756.6	29.81	757.1	78.3	25.7	95	calm	0	0			10		w.	0.59	15.0	overcast	
Dhubri	29.68	753.8	29.80	756.8	78.4	25.8	89	s.	2.0	0.9			9	e.	s.	0.02	0.5	d. clouds	
Chittagong	29.71	754.7	29.80	757.0	81.2	27.3	84	sw.	4.0	1.8			6			0	0	d. clouds	
Sibsagar	29.47	748.6	29.81	757.2	76.5	24.7	97	s.	2.0	0.9			10			3.10	78.7	raining	
Jeypore	26.29	718.6	29.72	754.8	83.9	28.8	72	nw.	4.5	2.0			9		nw.	0	0	d. clouds	
Zanzibar, Africa	30.05	763.3			84.7	29.3	36	se.	7.5	3.4			0			0	0	blue sky	
Italian.																			
Udine	29.61	752.2	30.01	762.3	71.8	22.1	76	s.	4.9	2.2			10			0.244	6.2		Prof. Giovanni Clodig.
Milan	29.47	748 6	29.97	761.2	75.2	24.0	56	e.	1.8	0.8			9	sw.		0	0		Prof. Schiaparelli.
Padua	29.87	758.8	29.98	761.5	76.3	24.6	51	ese.	1.8	0.8			7	sw.		0	0		Prof. Dott. Lorenzoni.
Monealieri	29.04	737 5	29.91	759.7	76.5	24.7	48	n.	3.8	1.7			3	n.		0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Genoa	29.81	757.2	30.00	761.9	73.0	22.8	71	se.	6.3	2.8			8	se.		0.071	1.8		Prof. G. M. Garibaldi
Mondovi	28.07	712.9	29.90	759.5	72.7	22.6	51	nw.			4		1	w.		0	0		Prof. D. C Bruno
Pesaro	29.94	760.4	29.98	761.6	78.8	26.0	50	wsw.	10.5	4.7			9	wsw.		0	0		Prof. Luigi Guidi.
Florence	29.78	756.5	30.03	762.7	77.7	25.4	52	sw.			2		8	sw.		0.087	2.2		Prof. Costantino Pitier
Leghorn	29.91	759.8	30.00	761.9	74.5	23.6	62	sw.	11.9	5.3			10	n.		0	0		Prof. P. Monte.
Rome	29.91	759.6	30.08	763.9	79.9	26.6	48	sw.	5.6	2.5			2			0	0		Prof. P. Tachini.
Lecce	29.80	756.8	30.04	762.9	79.3	26.3	37	nne.	9.4	4.2			0			0	0		Prof. C. de Giorgi.
Cosenza	29.20	741.7	30.05	763.3	81.0	27.2	71	sw.	2.5	1.1			0			0	0		Prof. D. Conti.
Cagliari	30.01	762.2	30.20	767.0	82.6	28.1	37	nw.			2		3	nw.		0	0		Prof. A. Pacinotti.
Palermo	29.90	759.5	30.14	765.6	77.7	25.4	44	ne.	10.5	4.7			5			0	0		Prof. G. Cincciatore.
Syracuse	30.02	762.4	30.00	763.5	79.5	26.4	61	ne.	3.8	1.7			1	w.		0	0		Prof. Vincenzo Guilian
Sub-series.																			
Naples, S. R	29.54?	751.4?	30.09	763.4	76.6	24.8	60	se.	4.3	1.9			2	wsw.		0	0		Prof. T. Brioschi.
Stelvio	22.17?	504.1?			44.4	6.9	68	sw.			2		10			0.075	1.9	misty	Prof. P. F. Denza.
Valdobbia	22.22?	505.4?			48.2	9.0	75	ne.			2		9			0.157	4.0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.88	758.9	29.92	759.9	69.8	21.0	85	calm	0	0		0	8 ck;ks		ne.	0.855	21.7	cloudy	K. Ogawa.
Hakodate	29.89	759.2	29.90	759.4	66.7	19.3	94	ene.	3.0	1.3			5			0.958	24.3	fair	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.75	755.6	29.92	759.9	70.7	21.5	82	nw.	0.3	0.1		4ck;cs	0			0	0	fair	M. Fojima.
Nagasaki, I. M. Obs'y	29.67	753.6	29.87	758.6	72.7	22.6	91	ne.	7.2	3.2			10 n			0.470	11.9	raining	
Nemuro	30.04	763.0	30.11	764.8	66.0	18.9	90	calm	0	0		0	9			0	0	overcast	
Niigata	29.90	759.4	29.94	760.5	73.3	22.9	79	nne.	1.3	0.6		1 ck	9 ck;s	sw.	sw.	0.240	6.1	light fog	M. Morita.
Nobiru	29.86	758.5	29.88	758.9	72.4	22.4	80	nw.	9.7	4.4		1 ck	0			0.085	2.2	clear	H. Midzushima.
Osaka	29.88	758.9	29.89	759.2	73.5	23.1	76	nne.	2.9	1.2		2 c;cs	4 s	w.		0	0	fair	
Supporo					65.8	18.8	93	calm	0	0			5			0.150	3.8	fair	
Tokei Obs'y, Yeddo	29.80	757.0	29.87	758.8	75.0	23.9	92	s.	2.0	0.9		1 ck	8 s		ssw.	0.040	1.0	cloudy	The Staff.
Wakayama	29.87	758.7	29.92	759.9	76.2	24.6	72	n.	0.9	0.4		9	0			0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	30.05	763.3	30.24	768.1	72.0	22.2	62	ese.	18.5	8.3		0	4 k;n		ese.	0.04	1.0	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.71	602.2	29.93	760.2	59.4	15.2	96	n.	0	0		2 c	0			0	0	clear	Prof. Vicente Fernandez.
Leon.†	24.32	617.7	29.94	760.5	61.5	16.4	84	n.			1	5 c	0	sw.		0	0	½ cloudy	Prof. M. Leal.
Mazatlan	29.62	752.2	29.87	758.7	77.5	25.3	93	ene.	1.6	0.8		0	7 n		sw.	0.099	2.5	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.11	587.0	30.13	765.3	53.2	11.8	86	calm			0	6 cs	0			0.473	12.0	⅜ cloudy	The Staff.
Morelia	24.23	615.5	30.26	768.6	60.3	15.7	58	ne.			1	0	0			0.693	17.6	clear	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.93	607.8	29.83	757.7	61.7	16.5	96	calm			0	1 cs	0			0.120	3.1	clear	M. V. de Leon, M. E
Puebla, Catholic Institute	23.41	594.9	30.18	766.5	53.2	11.8	89	calm			0		9			0.063	1.5	very cloudy	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	22.56	573.0	30.09	764.2	60.5?	17.0?	82	w.	4.6	2.0		3 ck	0	n.		0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.47	748.4	29.47	748.4	56.8	13.8		sw.			5					0.020	0.5		
Groningen	29.38	746.3	29.44	747.7	59.9	15.5		w.			4					0.118	3.0		
Helder	29.40	746.8	29.40	746.8	58.8	14.9		sw.			4					0.488	12.4		
Hellevoetsluis	29.44	747.7	29.44	747.7	58.8	14.9	80	sw.			4					0.283	7.2		
Utrecht	29.42	747.2	29.47	748.4	57.2	14.0	89	sw			3		8			0.130	3.3	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.26	743.1	29.32	744.7	60.4	15.8	63	nnw.	9	4			5			0.945	24.0		
Brono	29.31	744.4	29.35	745.4	56.8	13.8	71	w.	9	4			9			0.386	9.8		
Christiania	29.22	742.2	29.36	745.8	63.3	17.4	68	sse.	18	8			4			0.012	0.3		
Gjæsvær	29.22	742.3	29.25	742.9	57.9	14.4		calm			0		7						
Lodingen	29.24	742.7	29.29	743.9	58.5	14.7	81	wsw.			2		9			0.020	0.5		
PORTUGUESE.																			
Angra, Azores					75.9	24.4	89	w.	15.0	6.7			5			0	0		Dr. J. A. Sampaio.
Campo Major	29.13	739.9	30.07	763.7	93.0	33.9	17	calm	0	0			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.08	763.9	30.16	766.1	73.8	23.2	67	sw.	4.9	2.2			1			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.81	757.1	30.15	765.9	80.6	27.0	44	nne.	7.4	3.3			0			0	0		The Staff.
Ponta Delgada, Azores	30.17	766.2	30.24	768.0	75.2	24.0	61	s.	13.0	5.8			4			0	0		
Saint Paul de Loando	29.80	757.0	30.01	762.2	73.8	23.2	81	ene.			1		0			0	0		
Serra da Estrella	25.53	648.4	30.08	763.9	70.3	21.3	40	nnw.	6.9	3.1			0			0	0		
RUSSIAN.																			
Akmolinski	28.83	732.2	29.91	759.6	49.3	9.6	47	n.	18	8			9 k			0.004	0.1		Major K. Lasarew.
Archangel	29.44	747.7	29.46	748.2	77.5	25.3	54	sse.	13	6		0	7 ks			0.098	2.5		Capt. Sseliwerstow.
Astrakhan	30.08	764.1	30.00	762.0	83.5	28.6	41	se.	13	6		c	5 s			0	0	light clouds	Capt. Wieganow.
Barnaul	29.02	737.1	29.51	749.5	55.4	13.0	72	wnw.	18	8			10			0.157	4.0		Meteorological Obs'y.
Dorpat	29.35	745.5	29.58	751.4	63.7	17.6	72	ssw.	7	3		0	8 k			0.236	6.0		Observatory.
Ekaterinburg	29.28	743.6	30.24	768.0	57.6	14.2	20	w.	9	4		1 c	0			0	0	light clouds	Meteorological Obs'y.
Irkutsk																			
Kasan	29.88	759.0	30.14	765.6	70.5	21.4	33	sse.	9	4		0	1			0	0		Observatory.
Kertch	29.80	756.8	29.82	757.3	81.9	27.7	67	wnw.	25	11		0	5 ks			0	0		Lagorio & Sastyrex.
Kieff	29.24	742.7	29.85	758.3	65.7	18.7	57	w.	13	6			ck 7 k;ks						Observatory.
Lugan	29.50	750.7	29.75	755.6	87.6	30.9	44	sse.	13	6			7			0	0		Meteorological Obs'y.
Moscow	29.21	742.0	29.66	753.4	71.4	21.9	75	ssw.	13	6			9 ks					raining	Meteorological Obs'y.
Nikolaiev	29.90	759.4	29.97	761.2	75.6	24.2	57	n.	18	8		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.76	756.0	29.91	759.6	74.1	23.4	66	calm	0	0		0	0			0	0		Physical Observatory.
St. Petersburg	29.52	749.7	29.53	750.1	64.6	18.1	68	nw.	7	3		0	7 n			0	0		Central Physical Obs'y.
Semipalatinsk	29.04	737.5	29.69	754.1	51.8	11.0	75	wnw.	18	8			10			0.157	4.0		Major Lasarew
Tashkend, Laboratory	28.39	721.0	29.87	758.6	82.4	28.0	53	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.50	723.8	29.82	757.4	91.9	33.3	43	s.	2	1		0	0			0	0		Physical Observatory.
Vladivostock	29.93	760.3	30.00	762.0	67.3	19.6	84	calm	0	0		0	2 k						
Warsaw	29.37	745.9	29.78	756.3	67.3	19.6	61	ssw.	11	5		0	8 k;ks						Astronomical Obs'y.
Wilna	29.35	745.4	29.76	755.8	63.3	17.4	77	sw.	2	1			7			0.071	1.8	heavy clouds	Berg, Assistant.
Yeniseisk	29.21	742.0	29.49	749.0	55.9	13.3	96	wnw.	11	5			10			0.445	11.3	raining	M. O. Marks.
SCOTTISH.																			
Monach Lt			29.59	751.6	58	14.4	93	n.			6	10	5	n.		0.1	3.	cloudy	J. Youngclause.
North Unst			29.46	748.3				ne.			4	6	4	ne.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.96	761.0	30.06	763.5	79.5	26.4	68	sw.	2.7	1.2		0	1 k			0	0	clear	Antonio Rave, Director.
Bilbao, Met. Obs'y	30.11	764.8	30.17	766.3	70.0	21.1	76	nw.	2.0	0.9		4	3	nw.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.23	691.6	30.04	763.0	78.8	26.0	37	sw.	4.5	2.0		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.92	709.2	30.02	762.6	86.5	30.3	33	s.	5.8	2.6		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.98	761.5	30.10	764.5	89.6	32.0	52	se.	3.4	1.5		0	0			0	0	clear	Chayo Diaz, Director
Oviedo	29.31	744.4	30.21	767.3	69.8	21.0	71	n.	3.8	1.7		0	4 n			0.020	0.5		Prof. G. L. Frades.
Santiago, Met. Obs'y	29.28	743.7	30.15	765.8	72.7	22.6	74	calm	0	0			9			0	0	almost cov	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.93	760.1	29.99	761.7	78.7	25.9	90	e.	4.5	2.0		7 c;cs	0	nne.		0.01	0.3	fair	Benito Vines, S. J.
Manilla, Philippine Islands	29.85	758.2	29.91	759.6	80.6	27.0	86	ne.	1.1	0.5			9 ck		e.	0.098	2.5	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.8	30.09	764.2	89.2	31.8	25	e.	19.7	8.8		0	0			0	0		Capt. C. Pujazon R. N.
San Juan de Porto Rico, W.I	29.94	760.5	30.03	762.8	81.3	27.4	89	se.	6.3	2.8		2 cs	3 k	e.	se.	0.039	1.0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.78	756.4	29.91	759.7	83.4	28.6	78	nw.	1.8	0.8		0	7 k		se.	0	0	cloudy	José L. Yrastorza.
SWEDISH																			
Haparanda	29.20	741.7	29.24	742.7	59.7	15.4	93	nw.			2		10			0.362	9.2		
Umea	29.30	744.3	29.35	745.6	65.7	18.7	65	nw.			2		5			0.169	4.3		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Hernosand	29.35	745.4	29.40	746.7	64.0	17.8	57	sw.			2		5			0.047	1.2		
Stockholm	29.29	743.9	29.47	748.4	64.0	17.8	53	wsw.			2		6			0	0		
Wisby	29.47	748.5	29.53	750.0	61.9	16.6	71	w.			4		5			0	0		
Sub-series.																			
Upsala	29.34	745.1	29.42	747.3	63.7	17.6	66	sw.	9.6	4.3			8		wsw.	0.004	0.1		S. G. Fineman.
SWISS.																			
Geneva	28.57	725.6	29.95	760.8	68.4	20.2	68	ssw.			7		10			0.614	15.6	covered	The Observatory.
TURKISH.																			
Constantinople			30.01	762.3	76.3	24.6	58	n.	19	8.5			3		ne.	0	0		The Observatory.
Valona			30.13	765.2	79.2	26.2		nw.			1		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.82	757.3	87.8	31.0	55	w.			2		9 8		w.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.09	764.3	30.17	766.3	64.5	18.1	75	s.	2	0.9		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.48	748.8	30.12	765.0	61	16.1	93	nw.	4	1.8		0	fg.			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.10	637.5	29.82	757.4	59	15.0	72	ne.	1	0.4		0	0			0	0	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	27.53	699.2	30.28	769.1	44	6.7	56	sw.	4	1.8		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.77	730.7	29.92	760.0	69.0	20.6	93	se.	3	1.3			10 n			0.05	1.3	light rain	H. Hall.
Atlantic City, New Jersey	30.10	764.5	30.11	764.8	67	19.4	93	e.	17	7.6		0	0			0.05	1.3	clear	Jas. M. Watson.
Augusta, Georgia	29.77	756.1	29.96	761.0	75	23.9	90	s.	1	0.4			10 s		s.	0.07	1.8	cloudy	John Healy.
Baltimore, Maryland	30.12	765.0	30.17	766.3	63	17.2	73	ne.	5	2.2		2 cs	0			0.01	0.3	clear	Robert Seyboth.
Barnegat, New Jersey	30.11	764.8	30.13	765.3	69.0	20.6	61	e.	17	7.6		0	0			0.05	1.3	clear	G. A. Hill.
Bennett, Fort, Dakota	28.74	730.0	30.28	769.1	48	8.9	86	nw.	1	0.4		3 c	3 s			inap.	inap.	fair	A. Pritchard.
Benton, Fort, Montana	27.57	700.3	30.36	771.1	48	8.9	58	sw.	6	2.7		3 k	0			0	0	clear	S. Wheaton.
Behring Island, Behring Sea	29.92	760.0	29.94	760.5	55.0	12.8		sw.	13	5.8			fg.			0.05	1.3	dense fog	Dr. L. Stejneger.
Bismarck, Dakota	28.46	722.9	30.21	767.3	47	8.3	93	calm	0	0		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.12	765.0	30.15	765.8	63	17.2	78	ne.	7	3.1		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.40	695.9	30.16	766.1	48	8.9	66	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.02	762.5	30.17	766.3	58.0	14.4	81	nw.	7	3.1		0	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.85	758.2	29.89	759.2	76.7	24.8	90	calm	0	0		4 c	3 s		s.	0	0	fair	M. McCarty.
Buffalo, New York	29.42	747.3	30.15	765.8	62.5	16.9	82	ne.	5	2.2		0	sk.			0	0	clear	Clarence Weaver.
Buford, Fort, Dakota	28.32	719.3	30.26	768.6	42	5.6	76	calm	0	0		0	0			0.02	0.5	clear	A. H. Bell.
Burlington, Vermont	29.88	758.9	30.17	766.3	62.0	16.7	84	e.	3	1.3		0	0			0	0	clear	G. C. Schaeffer.
Cairo, Illinois	29.55	750.6	29.94	760.5	70.2	21.2	95	ne.	5	2.2			10 s			0.30	7.6	threatening	W. H. Ray.
Campo, California	27.46	697.5	29.96	761.0	48.2	9.0	80	sw.	2	0.9		0	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	30.03	762.7	30.05	763.3	70	21.1	78	ne.	22	9.8			10 s		ne.	0.07	1.8	cloudy	A. K. Alderson.
Cape May, New Jersey	30.08	764.0	30.11	764.8	61.0	16.1	84	ne.	9	4.0		1 cs	0			0	0	clear	W. E. Smith.
Cape Mendocino	29.44	747.8			59	15.0	100	s.	11	4.9			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	29.94	760.5	29.96	761.0	78	25.6	82	w	8	3.6			10 n		w.	1.41	35.8	heavy rain	F. W. Mixer.
Champaign, Illinois	29.17	740.9	29.96	761.0	68.4	20.2	86	ne.	9	4.0			10 s		ne.	0.01	0.3	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.90	759.4	29.95	760.7	77	25.0	90	calm	0	0			10 n			0.12	3.0	light rain	J. H. Smith.
Charlotte, N. Carolina	29.12	739.6	29.96	761.0	68.0	20.0	93	e.	12	5.4			10 s		ne.	0.16	4.1	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.13	739 9	29.94	760.5	69.0	20.6	93	n.	2	0.9			10n;fg		s.	0.12	3.0	light rain	B. L. Goulding.
Cheyenne, Wyoming	24.37	619.0	30.07	763.8	48.3	9.1	74	calm	0	0			10 s			0.13	3.3	cloudy	E. McGovern.
Chicago, Illinois	29.32	744.7	30.01	762.2	70.8	21.6	82	ne.	12	5.4		10 k	0	ne.		0	0	cloudy	J. Mitchell.
Chincoteague, Virginia	30.05	763.3	30.07	763.8	68	20.0	70	ne.	14	6.3		0	4 k		ne.	inap.	inap.	fair	C. F. Dickens.
Cincinnati, Ohio	29.34	745.2	29.98	761.5	71	21.7	84	e.	4	1.8			10 s		se.	0.21	5.3	cloudy	J. F. Harrold.
Cleveland, Ohio	29.39	746.5	30.11	764.8	64.3	17.9	81	e.	2	0.9		0	0			0	0	clear	J. B. Newlin.
Coleman City, Texas																			L. Dorman.
Columbus, Ohio	29.19	741.4	30.02	762.5	67	19.4	78	e.	10	4.5		0	8 s		se.	0.06	1.5	cloudy	D. Cuthbertson.
Concho, Texas	28.06	712.7	29.92	760.0	71	21.7	70	calm	0	0		0	0			0	0	clear	W. W. McConthe.
Custer, Fort, Montana	27.19	690.6	30.25	768.3	42	5.6	67	s.	6	2.7		0	0			0	0	clear	W. B. Lamar.
Davenport, Iowa	29.37	746.0	30.00	762.0	67	19.4	90	ne.	4	1.8		2 cs	0	calm		0	0	clear	R. R. Martin.
Davis, Fort, Texas	25 20	640.1	29.85	758.2	64	17.8	81	calm	0	0		0	0			0	0	clear	J. Williams.
Dayton, Washington T'y	28.54	724 9	30.26	768.6	43.3	6.3	55	ne.	4	1.8		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.73	653.5	30.16	766.1	42.5	5.8	76	n.	3	1.3		0	0			0	0	clear	G. W. Scott.
Decatur, Texas					80	26.7	58	se.	3	1.3		0	2 ks		e.	0	0	clear	D. J. Carr.
Delaware Breakwater, Del.	30.08	764.0	30.10	764.5	65	18.3	90	ne.	20	8.9		2 cs	0	e.		0.02	0.5	clear	T. S. Townsend.
Denison, Texas	29.15	740.4	29.93	760.2	70.3	21.3	84	n.	3	1.3		0	0			0	0	clear	J. McGlone.
Denver, Colorado	25.07	636.8	30.09	764.3	52.0	11.1	86	w.	6	2.7			10 s			0.78	19.8	cloudy	F. M. Neal.
Des Moines, Iowa	29.17	740.9	30.05	763.3	67	19.4	84	se.	2	0.9		5 cs	fg.	e.		0	0	fair	F. W. Conrad.
Detroit, Michigan	29.40	746.7	30.10	764 5	67.8	19.9	84	ne.	3	1.3		0	0			0	0	clear	G. F. R. Wappenhans.
Dodge City, Kansas	27.53	699.2	30.01	762.2	59	15.0	84	n.	20	8.9		0	9 s		n.	0	0	cloudy	W. M. Mattingly.
Dubuque, Iowa	29.36	745.7	30.05	763.3	65.7	18.7	87	ne.	2	0.9		2 c;ck	hz.	n.		0	0	clear	J. Harvey Smith.
Duluth, Minnesota	29.35	745.5	30.07	763.8	63	17.2	84	nw.	3	1.3			10 s			0	0	cloudy	N. B. Conger.
Eagle Pass, Texas	29.15	740.4	29.94	760.5	73.1	22.8	97	sw.	1	0.4		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.51	647.9	30.06	763.5	37	2.8	75	n.	8	3.6		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.09	764 3	30.16	766.1	54.0	12.2	80	n.	2	0.9		0	hz.			0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.28	692.9	29.92	760.0	62	16.7	78	nw.	12	5.5		0	0			0	0	clear	W. J. Cundall.
El Paso, Texas	26.29	667.8	29.89	759.2	68	20.0	76	ne.	1	0.4		0	0			0	0	clear	J. F. Marshall.
Erie, Pennsylvania	29.43	747.5	30.14	765.5	66	18.9	78	calm	0	0		hz.	0			0	0	clear	Peter Wood.
Escanaba, Michigan	29.43	747.5	30.07	763 9	61.5	16.4	92	w.	3	1.3		0	hz.			0	0	clear	George Heathcote.
Fredericksburg, Texas	28.31	719.1	30.02	762.5	74	23.3	82	nw.	2	0.9		3 cs	0			0	0	fair	Frank Halwegler.
Galveston, Texas	29.85	758.2	29.90	759.4	80	26.7	88	w.	12	5.4		0	2 ks			0.10	2.5	clear	E. O'C. Macherney.
Grand Haven, Michigan	29 42	747.3	30.07	763.8	65.0	18.3	90	ne.	5	2.2		0	0			0	0	clear	W. A. Reid.
Grant, Fort, Arizona	25.25	641.3	29.82	757.4	65.4	18.6	84	e.	3	1.3		0	8 s			0	0	cloudy	Robert O. Lord.
Hatteras, North Carolina	29.94	760.5	29.96	761.0	74	23.3	97	e.	25	11.2			10 n		ne.	0.73	18.5	light rain	R. M. Crawford.
Helena, Montana	26.15	664.2	30.24	768.1	55	12.8	47	calm	0	0		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.03	737.3	30.03	762.7	76.0	24.4	82	se.	1	0.4		0	0			0	0	clear	J. W. Byram.
Huron, Dakota	28.88	733.5	30.22	767.6	50.7	10.4	86	nw.	4	1.8			10 s		nw.	0.05	1.3	cloudy	S. W. Glenn.
Indianapolis, Indiana	29.19	741.4	29.96	761.0	69	20.6	90	e.	3	1.3		4 cs	4 s		e.	0.09	2.3	cloudy	O. Schutze
Indianola, Texas	29.87	758.7	29.90	759.4	78.2	25.7	97	nw.	7	3.1		3 cs	5 ks	n.	ne.	0.12	3.0	cloudy	I. A. Reed.
Jacksboro, Texas	28 81	731.8	29.93	760.2	71	21.7	90	calm	0	0		0	0			0	0	clear	J. P. Sherry.
Jacksonville, Florida	29.92	760.0	29.96	761.0	76	24.4	85	sw.	12	5.4		5 cs	0	sw.		0.33	8.4	fair	J. W. Smith.
Keogh, Fort, Montana	27.84	707.1	30.27	768.8	42	5.6	76	w.	2	0.9		0	0			0	0	clear	A. Schneider.
Keokuk, Iowa	29.33	745.0	29.96	761.0	66.5	19.2	89	n.	3	1.3		1 k	0	ne.		0	0	clear	F. Z. Gosewisch
Key West, Florida	29.96	761.0	29 98	761.5	85.0	29.4	66	se.	7	3.1		3 c	0	ne.		0	0	clear	R. H. Paxton.
Kittyhawk, North Carolina	29.99	761.7	30.01	762 2	74	23.3	82	ne.	31	13.9			10k;ks		e	0.06	1.5	cloudy	E. A. Beals.
Knoxville, Tennessee	28.94	735.1	29.95	760 7	67.8	19.9	94	ne.	1	0.4			10 n			inap.	inap.	light rain	J. A. Cody.
La Crosse, Wisconsin	29.28	743.7	30.03	762.7	68	20.0	84	se.	1	0.4			fg.			0	0	dense fog	S. C. Emery
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.16	740.7	30.02	762.5	67	19.4	84	n.	1	0.4		0	fg.			0	0	clear	A. W. Browne.
Lewiston, Idaho	29.48	748.8	30.29	769.4	53.5	11.9	42	calm	0	0		0	hz.			0	0	clear	W. Bell.
Little Rock, Arkansas	29.61	752.1	29.92	760.0	72	22.2	97	nw.	2	0.9		0	0			0.12	3.0	clear	W. U. Simons.
Los Angeles, California	29.55	750.6	29.94	760.5	59	15.0	75	w.	4	1.8		0	0			0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.37	746.0	29.92	760.0	70	21.1	93	ne.	5	2.2			10 s		ne.	0.01	0.3	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.41	747.0	30.08	764 0	64	17.8	73	ne.	4	1.8			10 s		n.	0.05	1.3	cloudy	Lewis Duane.
Mackinaw City, Michigan	29.48	748.8	30.12	765.0	65.5	18.6	90	w.	3	1.3		0	0			0	0	clear	F. R. Day.
Macon, Fort, North Carolina	29.95	760.7	29.96	761.0	75	23.9	97	n.	14	6.3			10 k		n.	0.06	1.5	threatening	F. P. Chaffee.
Madison, Wisconsin	29.07	738.4	30.05	763.3	67	19.4	93	ne.	4	1.8		1 c	0	w.		0	0	clear	C. A. Shaw.
Maginnis, Fort, Montana																			H. W. Dodge.
McKavett, Fort, Texas																			J. E. Thatcher.
Marquette, Michigan	29.33	745 0	30.04	763.0	69	20.6	76	e.	5	2.2		0	0			0	0	clear	J. Gilligan.
Memphis, Tennessee	29.58	751.3	29.91	759.7	72	22.2	97	nw.	4	1.8			10 s		nw.	0	0	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.31	744.5	30.04	763.0	68	20.0	90	e.	11	4.9		2 ck	3ks;fg		e.	0	0	fair	W. Line.

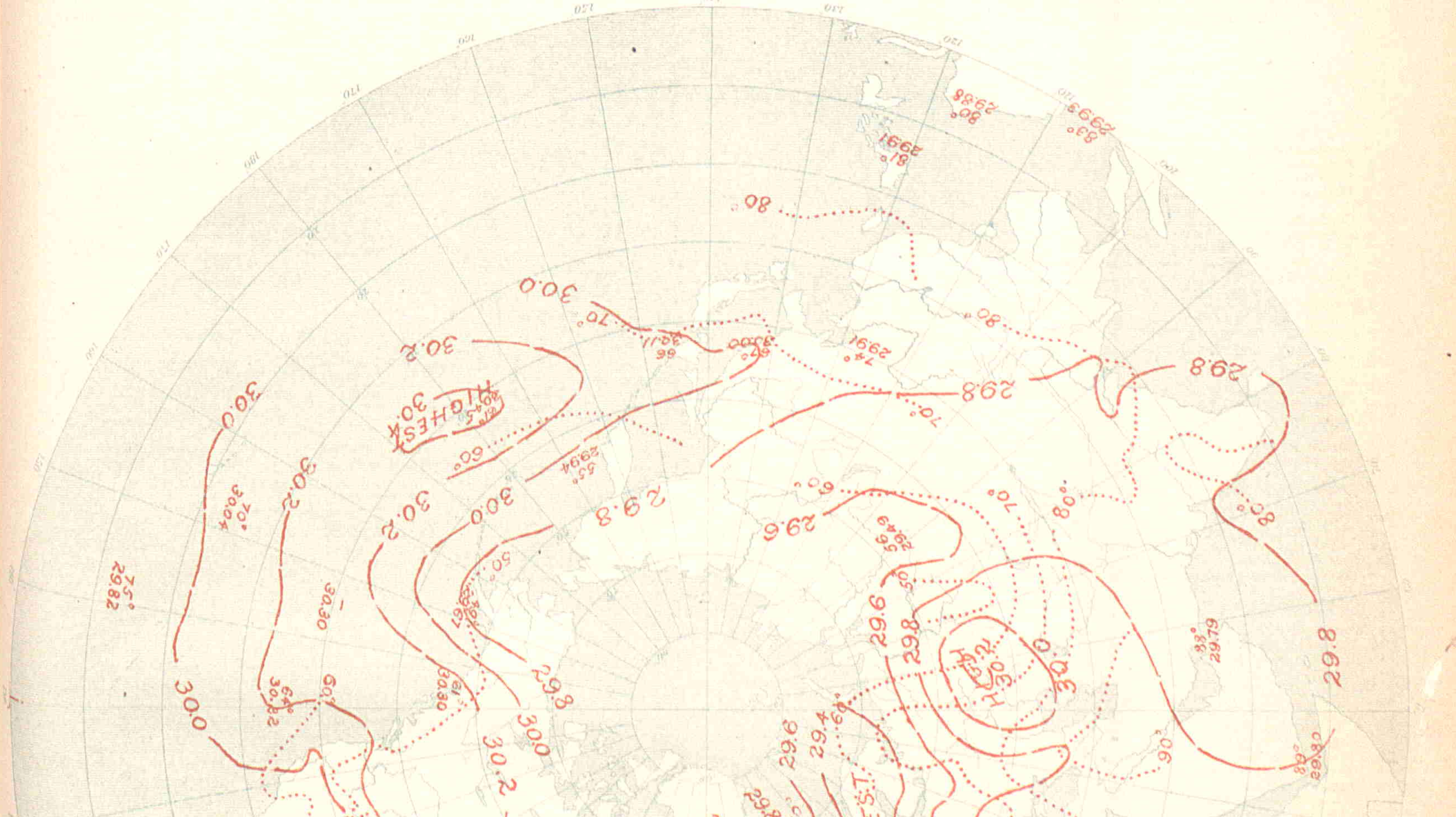
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	27.08	687.8	30.30	769.6	43	6.1	68	nw.	1	0.4	.....	0	0	.....	.....	0	0	clear	J. H. Jones.
Mobile, Alabama	29.90	759.4	29.94	760.5	71	21.7	92	nw.	3	1.3	.....	2 ck	1 ks	sw.	.....	1.10	27.9	clear	C. A. Read.
Montgomery, Alabama	29.69	754.1	29.92	760.0	68.6	20.3	98	se.	1	0.4	.....	.....	fg.	.....	.....	0.10	2.5	dense fog	J. B. McLaughlin.
Moorhead, Minnesota	29.20	741.7	30.17	766.3	50	10.0	93	nw.	5	2.2	.....	0	0	.....	.....	0.32	8.1	clear	H. Bessant.
Morgantown, W. Virginia	29.08	738.6	30.08	764.0	62.5	16.9	86	ne.	3	1.3	.....	3 cs	0	.....	.....	0	0	clear	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.05	610.9	30.13	765.3	43.0	6.1	58	ne.	15	6.7	.....	0	2 ks	.....	.....	0.02	0.5	clear	J. G. Linsley.
Nashville, Tennessee	29.34	745.2	29.90	759.4	70.5	21.4	94	e.	4	1.8	.....	.....	10 n	.....	se.	0.15	3.8	light rain	L. N. Jesunofsky.
New Haven, Connecticut	30.05	763.3	30.16	766.1	58	14.4	80	ne.	5	2.2	.....	0	sk.	.....	.....	0	0	clear	J. H. Sherman.
New London, Connecticut	30.10	764.5	30.15	765.8	61	16.1	78	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.84	757.9	29.89	759.2	78.0	25.6	85	sw.	1	0.4	.....	6 c	4 s	.....	sw.	0	0	cloudy	L. Dunne.
Newport, Rhode Island	30.10	764.5	30.16	766.1	62.8	17.1	76	n.	5	2.2	.....	0	0	.....	.....	0	0	clear	W. McGillivray.
New York, New York	30.00	762.0	30.17	766.3	63.5	17.5	75	ne.	4	1.8	.....	0	fg.	.....	.....	0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.02	762.5	30.05	763.3	69	20.6	78	ne.	12	5.4	.....	.....	10 ks	.....	ne.	0.02	0.5	cloudy	Wm. Davis.
North Platte, Nebraska	27.35	694.7	30.15	765.8	55.6	13.1	92	n.	8	3.6	.....	.....	10 n	.....	n.	1.28	32.5	light rain	E. F. Brady.
Olympia, Washington T'y	30.20	767.1	30.24	768.1	47.0	8.3	86	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	P. H. Ray.
Omaha, Nebraska	28.96	735.6	30.10	764.5	65.8	18.8	90	n.	10	4.5	.....	.....	10 s	.....	n.	0	0	cloudy	A. Pollak.
Oswego, New York	29.81	757.2	30.13	765.3	64.8	18.2	93	s.	5	2.2	.....	.....	10 s	.....	s.	0	0	cloudy	S. W. Beall.
Palestine, Texas	29.38	746.2	29.92	760.0	72.0	22.2	90	ne.	2	0.9	.....	0	hz.	.....	.....	0	0	clear	L. M. Pindell.
Pensacola, Florida	29.87	758.7	29.90	759.4	73.1	22.8	90	nw.	1	0.4	.....	4 cs	2 s	w.	.....	0.03	0.8	fair	M. McGauran.
Philadelphia, Pa.	30.06	763.5	30.16	766.1	63	17.2	78	ne.	7	3.1	.....	0	hz	.....	.....	inap.	inap.	clear	T. F. Townsend.
Pike's Peak, Colorado	18.04	458.2	29.83	757.7	30	— 1.1	100	s.	4	1.8	.....	.....	10 n	.....	.....	1.56	39.6	light snow	L. M. Dey.
Pioche, Nevada	24.18	614.2	29.88	758.9	58.6	14.8	32	nw.	6	2.7	.....	0	0	.....	.....	0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.31	744.5	30.10	764.5	60.3	15.7	81	ne.	3	1.3	.....	0	fg.	.....	.....	0	0	clear	J. B. Turton.
Poplar River, Montana	28.18	715.8	.....	.....	.....	.....	.....	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	29.91	759.7	29.92	760.0	77.1	25.1	90	w.	10	4.5	.....	.....	10 n	.....	w.	0.06	1.5	light rain	M. Hermann.
Port Huron, Michigan	29.44	747.8	30.10	764.5	64.3	17.9	84	ne.	1	0.4	.....	0	0	.....	.....	0	0	clear	W. O. Bailey.
Portland, Maine	30.12	765.0	30.17	766.3	60.0	15.6	75	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.06	763.5	30.13	765.3	59.0	15.0	60	nw.	10	4.5	.....	0	sk.	.....	.....	0	0	clear	M. L. Hearne.
Portsmouth, N. C.	.....	.....	.....	.....	75	23.9	90	n.	25	11.2	.....	.....	10 n	.....	n.	0.89	22.6	light rain	F. S. Coburn.
Prescott, Arizona	24.83	630.7	29.81	757.2	59	15.0	90	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. McN. Wright.
Provincetown, Mass.	30.11	764.8	30.14	765.5	63	17.2	78	ne.	6	2.7	.....	0	0	.....	.....	0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	29.97	761.2	29.98	761.5	77.5	25.3	89	e.	4	1.8	.....	1 c	1 k	calm	s.	0.07	1.8	clear	W. J. Evans.
Red Bluff, California	.....	.....	.....	.....	.....	.....	.....	n	.....	.....	1	0	0	.....	.....	0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.70	754.4	29.94	760.5	78	25.6	88	se.	6	2.7	.....	0	0	.....	.....	0	0	clear	H. S. Miles.
Rochester, New York	29.49	749.0	30.14	765.5	60	15.6	93	sw.	2	0.9	.....	0	hz; sk	.....	.....	0	0	clear	E. W. McGann.
Roseburg, Oregon	29.52	749.8	30.06	763.5	50.5	10.3	67	ne.	1	0.4	.....	0	sk.	.....	.....	0	0	dense smoke	J. J. Nanry.
Sacramento, California	29.88	758.9	29.96	761.0	59.3	15.2	75	se.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.37	746.0	29.95	760.7	69.0	20.6	100	ne.	11	4.9	.....	.....	10 s; fg	.....	ne.	0.10	2.5	cloudy	J. H. Webber.
St. Paul, Minnesota	29.20	741.7	30.04	763.0	68.0	20.0	78	nw.	12	5.4	.....	.....	10 s	.....	nw.	0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.26	743.2	30.10	764.5	48	8.9	93	w.	7	3.1	.....	0	0	.....	.....	0.05	1.5	clear	G. Kingsbury.
Salt Lake City, Utah	25.76	654.3	29.96	761.0	58	14.4	55	n.	4	1.8	.....	0	0	.....	.....	0	0	clear	J. Craig.
San Antonio, Texas	29.24	742.7	29.92	760.0	75.5	24.2	90	calm	0	0	.....	3 ck	2 s	.....	.....	0	0	fair	T. J. Kenan.
San Diego, California	29.85	758.2	29.92	760.0	62.1	16.7	90	calm	0	0	.....	0	0	.....	.....	0	0	clear	A. C. Dobbins.
Sandusky, Ohio	29.39	746.5	30.05	763.3	68	20.0	73	se.	13	5.8	.....	0	0	.....	.....	0	0	clear	M. H. Perry.
Sandy Hook, New Jersey	30.13	765.3	30.16	766.1	65.0	18.3	73	e.	14	6.3	.....	0	0	.....	.....	0	0	clear	B. A. Blandon.
San Francisco, California	29.98	761.5	30.01	763.0	55.5	13.1	90	sw.	5	2.2	.....	.....	fg.	.....	sw.	0	0	dense fog	N. Gerom.
Santa Fé, New Mexico	23.38	593.8	29.87	758.7	59	15.0	78	ne.	6	2.7	.....	4 k	6 s	e.	e.	0.33	8.4	cloudy	H. U. Jones.
Savannah, Georgia	29.86	758.4	29.95	760.7	77	25.0	82	sw.	2	0.9	.....	.....	10 s	.....	.....	0.19	4.8	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.74	679.2	30.27	768.8	37	2.8	92	w.	7	3.1	.....	0	0	.....	.....	0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.69	754.1	29.92	760.0	73	22.8	97	calm	0	0	.....	0	fg.	.....	.....	0.09	2.3	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.75	730.2	29.93	760.2	69.8	21.0	85	n.	8	3.6	.....	6 k	0	n.	.....	0	0	fair	T. Cleary.
Silver City, New Mexico	24.35	718.5	29.81	757.2	56	13.3	67	calm	0	0	.....	0	3 k	.....	calm	0.28	7.1	clear	J. B. Wallace.
Sitka, Alaska	30.24	768.1	30.30	769.6	61.2	16.2	86	s.	9	4.0	.....	.....	10 ks	.....	sw.	1.41	35.8	cloudy	J. J. McLean.
Smith, Fort, Arkansas	29.48	748.8	29.94	760.5	68.5	20.3	93	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. B. Campbell.
Smithville, North Carolina	29.92	760.0	29.96	761.0	74	23.3	94	nw.	2	0.9	.....	4 cs	6 ks	.....	w.	0.01	0.3	cloudy	O. Parker.
Spokane Falls, Wash. Ter.	28.30	718.8	30.30	769.6	43	6.1	76	calm	0	0	.....	0	0	.....	.....	0	0	clear	D. Moore.
Springfield, Illinois	29.32	744.7	29.98	761.5	68	20.0	92	ne.	5	2.2	.....	.....	10 s	.....	ne.	0.08	2.0	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.05	763.3	30.18	766.6	61.0	16.1	84	n.	2	0.9	.....	0	0	.....	.....	0	0	clear	T. S. Outram.
Springfield, Mo.	28.58	725.9	29.96	761.0	66	18.9	90	ne.	3	1.3	.....	4 cs	fg.	.....	.....	0	0	fair	J. B. Marbury.
Starkville, Miss.	29.44	747.8	29.91	759.7	70	21.1	94	e.	2	0.9	.....	.....	fg.	.....	.....	0	0	dense fog	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.42	721.9	30.20	767.1	44	6.7	93	nw.	9	4.0	.....	0	0	.....	.....	0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.00	685.8	29.94	760.5	63.0	17.2	100	calm	0	0	.....	0	0	.....	.....	0	0	clear	J. O'Dowd.
Thomas Camp	27.17	690.1	29.79	756.7	69.5	20.8	85	calm	.....	.....	0	2 ck	3 ks	nw.	nw.	0	0	fair	
Thatcher's Island, Mass.	30.13	765.3	30.18	766.6	59.0	15.0	81	n.	7	3.1	.....	0	0	.....	.....	0	0	clear	G. Liebmann.
Toledo, Ohio	29.37	746.0	30.04	763.0	70	21.1	71	e.	8	3.6	.....	3 c	0	w.	.....	0.01	0.3	clear	A. Buell.
Tucson, Arizona	27.49	698.2	29.83	757.7	72	22.2	84	s.	2	0.9	.....	0	0	.....	.....	0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.93	760.2	30.29	769.4	49	9.4	44	se.	7	3.1	.....	0	0	.....	.....	0	0	clear	J. Daly.
Uvalde, Texas	28.97	735.8	29.91	759.7	73	22.8	90	calm	0	0	.....	0	0	.....	.....	0	0	clear	E. C. Imlay.
Verde, Fort, Arizona	.....	.....	.....	.....	65.2	18.4	58	nw.	.....	.....	1	0	0	.....	.....	0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.68	753.9	29.92	760.0	73	22.8	97	nw.	1	0.4	.....	.....	fg.	.....	.....	0.12	3.0	dense fog	James Kenealy.
Visalia, California	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	W. L. Seward.
Washakie, Fort, Wyoming	24.80	629.9	30.14	765.5	39.3	4.1	67	e.	4	1.8	.....	2 ck	0	w.	.....	0	0	clear	T. M. Ambler.
Washington, D. C.	30.03	762.7	30.14	765.5	61.5	16.4	83	n.	5	2.2	.....	3 c	0	nw.	.....	0.01	0.3	clear	F. M. M. Beall.
West Las Animas, Colorado	26.31	668.3	30.06	763.5	54	12.2	93	nw.	10	4.5	.....	.....	10 n	.....	nw.	0.69	17.5	light rain	F. H. Brandenburg.
Williamsport, Pa.	29.56	750.8	30.14	765.5	56	13.3	86	e.	3	1.3	.....	0	0	.....	.....	0	0	clear	B. F. Hough.
Wilmington, N. Carolina	29.92	760.0	29.97	761.2	77	25.0	85	ne.	4	1.8	.....	.....	10 ks	.....	ne.	0	0	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.81	655.6	30.04	763.0	50	10.0	14	ne.	10	4.5	.....	0	0	.....	.....	0	0	clear	J. Grover.
Yankton, Dakota	28.95	735.3	30.22	767.6	58	14.4	100	nw.	4	1.8	.....	.....	10 n	.....	.....	0.23	5.8	light rain	J. H. Attfeld.
Yuma, Arizona	29.65	753.1	29.79	756.7	73.7	23.2	54	calm	0	0	.....	0	0	.....	.....	0	0	clear	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8	.....	.....	54.0	12.2	66	s.	8	3.6	.....	.....	10 ns	.....	w.	0.02	0.5	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I.	30.00	762.0	30.01	762.2	82	27.8	78	e.	.....	.....	.....	3 k	5 ks	ne.	.....	0.00	15.2	fair	J. A. Racker.
Buenaventura, U. S. C.	30.03	762.7	30.06	763.5	78	25.6	86	calm	0	0	.....	.....	10 ks	.....	calm	2.50	63.5	cloudy	J. I. Plume.
Havana, Cuba	29.91	759.7	29.97	761.2	81	27.2	79	calm	0	0	.....	10 cs	0	ne.	.....	inap.	inap.	cloudy	Chas. Hasselbrink.
Kingston, Jamaica, W. I.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Robert Johnston.
Magua, San Domingo, W. I.	.....	.....	.....	.....	74	23.3	.....	e.	.....	.....	1	1 ks	0	se.	.....	0.57	14.5	.....	S. M. Pike.
Navassa, W. I.	29.86	758.4	29.94	760.5	81.5	27.5	78	e.	10	4.5	.....	4 ks	3 k	e.	se.	0	0	cloudy	F. M. Everett.
Paramaribo, S. A.	30.02	762.5	30.02	762.5	80	26.7	78	s.	.....	.....	2	3 c	3 s	se.	.....	0.310	7.9	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.34	745.2	29.90	759.4	79	26.1	85	calm	.....	.....	0	.....	10 ks	.....	s.	0.03	0.8	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.	.....	.....	.....	.....	78.5	25.8	94	ne.	.....	.....	1	0	8 ks	.....	ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.61	752.1	29.67	753.6	49	9.4	100	n.	.....	.....	2	.....	10 n	.....	.....	0.32	8.1	rain & fog	W. J. Fisher.
St. Thomas, W. I.	29.95	760.7	30.08	764.0	83	28.3	72	e.	.....	.....	.....	0	5 k	.....	e.	0	0	fair	Aug. Walloe.
York Factory, B. A.	30.12	765.0	30.18	766.6	43.0	6.1	92	n.	15	6.7	.....	4 k	6 s	nw.	n.	0	0	cloudy	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
BRITISH NAVAL.																		
H. M. S. Alert, N. 42° 41′ W. 21° 02′	30.24	768.1	72.5	22.5	80	sse.			1–2		6							d. clouds.
H. M. S. Alexandra, Port Said, Egypt	29.83	757.7	82	27.8	76	n.			2		4	nnw.						d. clouds.
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.07	763.8	65.5	18.6	89	ssw.			2–3		9	sw.				1	ssw.	misty.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	30.03	762.7	75	23.9		n.			4		4	n.						d. clouds.
H. M. S. Arab, Muscat, Arabia	29.69	754.1	84	28.9	83	ese.			2		2							d. clouds.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.04	763.0	60.5	15.8		w.			3–5		5							squally.
H. M. S. Comus, Esquimalt, Vancouver Island	30.24	768.1	53	11.7	53	calm			0		2							d. clouds.
H. M. S. Diamond, S. 30° 09′, E. 154° 00′	29.94	760.5	69	20.6	90	nnw.			4		4					2	nw.	d. clouds.
H. M. S. Dido, N. 17° 30′, W. 76° 30′	30.01	762.2	83	28.3		e.			4		3	e.				4	ene.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	29.92	760.0	80.5	26.9	82	ssw.			5–6		6	ssw.						d. clouds.
H. M. S. Eclipse, N. 30° 15′ E. 32° 30′	29.75	755.6	86.5	30.3		wnw.			1		2							d. clouds.
H. M. S. Fantome, N. 13° 04′, W. 59° 37′	30.00	762.0	81	27.2		e.			2		4	e.						d. clouds.
H. M. S. Flying Fish, N. 37° 14′, E. 126° 11′	29.91	759.7	75	23.9	97	calm			0		10							raining.
H. M. S. Gannet, S. 2° 12′, W. 79° 51′	29.92	760.0	68.5	20.3	84	sw.			2		10	ne.						d. clouds.
H. M. S. Iron Duke, N. 39° 10′, E. 127° 23′	29.97	761.2	74	23.3	95	calm			0		10							overcast.
H. M. S. Lark, S. 10° 23′, E. 161° 47′	29.91	759.7	77.3	25.2	92	calm			0		7							showery.
H. M. S. Liffey, Coquimbo, Chili	28.79?	731.3?	56	13.3		n.			4							4	n.	d. clouds.
H. M. S. Magpie, N. 35° 09, E. 128° 42′	29.93	760.2	75.5	24.2	73	ne.			1		10							d. clouds.
H. M. S. Minotaur, off Ramleh, Egypt	29.87	758.7	80	26.7	80	nw.			3		4					1	nw.	misty.
H. M. S. Northampton, Quebec, Quebec, Canada	30.07	763.8	64	17.8	94	calm			0		1					1	nnw.	misty.
H. M. S. Orontes, N. 35° 05′ E. 18° 10′	30.11	764.8	78.5	25.8	95	nw.			1		2					1	nnw.	d. clouds.
H. M. S. Pegasus, N. 6° 53′, E. 116° 49′	29.88	758.9	80	26.7	86	w.			1		10							d. clouds.
H. M. S. Sappho, N. 19° 44′, W. 155° 05′	30.01	762.2	73	22.8	?	nw.			1		6	ene.				2	ne.	d. clouds.
H. M. S. Swiftsure, Coquimbo, Chili	29.91	759.7	55	12.8	93	wnw.			4–6		8					4	nw.	squally.
H. M. S. Sylvia, Montevideo, Uruguay	30.39	771.9	49.7	9.8	100	se.			2		9							d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	29.85	758.2	51.5	10.8	97	nne.			2–4		10							raining.
H. M. S. Triumph, S. 16° 16′, W. 38° 12′	30.13	765.3	74	23.3	76	nne.			3–4		2	nne.				3	nne.	d. clouds.
H. M. S. Woodlark, Jask, Persia	29.69	754.1	87.5	30.8	75	se.			3–4		0					1	s.	misty.
PORTUGUESE NAVAL																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.09	764.2	78.8	26.0	84	ne.			1		1		ne.			1		blue sky.
Tamega, Macao, China	29.89	759.3	85.1	29.5	81	sw.			2		2							blue sky.
UNITED STATES NAVAL.																		
Navy Yard, Pensacola, Fla	29.81	757.2	73	22.8	90	n.	2	0.9			8		w.	0	0			fair.
Navy Yard, Portsmouth, N. H.	30.16	766.1	61	16.1	82	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.75	755.6	76	24.4	88	calm			0		8		w.	sl't	sl't			cloudy.
Adams, Mare Island, Cal			58	14.4	82	sw.			2		10			0	0	sm'h		cloudy.
Alaska, N. 14° 02′ W. 141° 28′	29.82	757.4	75	23.9	90	nne.			6		8		ne.	0.95	24.1	mod.	n.	fair.
Alliance, Portland, Maine	30.15	765.8	59	15.0	100	ne.			0–1		0			0	0	sm'h		clear.
Ashuelot, Yokohama, Japan*	29.77	756.1	78	25.6	95	calm			0		5		calm					fair.
Brooklyn, Rio de Janeiro, Brazil	30.02	762.5	66	18.9	94	ssw.	12	5.4			10		sw.	0	0			cloudy.
Colorado, New York, N. Y.	30.13	765.3	72	22.8	81	ne.	7	3.1			5		calm	0	0			fair.
Constellation, Annapolis, Maryland *	30.09	764.3	67	19.4	74	ne.			2		2		ne.					fair.
Enterprise, Portland, Maine	30.15	765.8	59	15.0	?	ne.			1		2		calm					clear.
Essex, Coquimbo, Chili	29.85	758.2	55	12.8	87	nnw.			6		5		nnw.			mod.	nnw.	squally.
Franklin, Norfolk, Va.	30.03	762.7	70	21.1	85	ene.	12	5.4			8		ne.	0.01	0.3			fair.
Galena, S. 4° 42′, W. 31° 00′	30.05	763.3	80	26.7	91	se.			4		2		se.			mod.	sse.	clear.
Hartford, Funchal, Madeira*	30.11	764.8	72	22.2	90	wsw.			0–1		8		wsw.	0	0	sm'h	wsw.	cloudy.
Independence, Navy Yard, Mare Island, Cal	30.04	763.0	57	13.9	100	sw.			2		10			0	0			cloudy.
Iroquois, N. 10° 14′ W. 88° 42′	29.81	757.2	80	26.7	87	calm			0		8					sm'h	ne.	clear.
Kearsarge, Portland, Maine	30.16	766.1	59	15.0	94	ne.			2		0					sm'h		clear.
Lackawanna, Callao, Peru*	29.94	760.5	62	16.7	83	calm			0		10							cloudy.
Lancaster, Messina, Sicily *	30.08	764.0	78	25.6	59	wnw.			2		2			0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	30.29	769.4	51	10.6	86	sse.			0–1		10		calm			sm'h		cloudy.
Michigan, Marquette, Michigan	29.98	761.5	66	18.9	84	se.			1		0							clear.
Minnesota, New York, N. Y.	30.19	766.8	67	19.4	79	nne.	6	2.7			0							foggy.
Monocacy, N. 37° 11′, E. 126° 33′	29.92	760.0	78	25.6	86	sw.			2		10		sw.					rainy.
New Hampshire, Newport, R. I.	30.19	766.8	63	17.2	94	n.			2		0					sm'h		clear.
Nipsic, N. 36° 17′, E. 19° 42′ *	30.02	762.5	79	26.1	62	nne.			4		0					sm'h		clear.
Onward, Callao, Peru†	30.07	763.8	59	15.0	94	calm			0		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.84	757.9	78	25.6	62	ne.			1		2		ene.					fair.
Passaic, Washington, D. C.			59	15.0	88	nne.			2		2							fair.
Pensacola, Payta, Peru*	29.87	758.7	63	17.2	83	ese.	6	2.7			10		e.	0	0	sm'h		cloudy.
Portsmouth, N. 34° 47′, W. 10° 27′*	30.03	762.7	70	21.1	100	ne.			3		0					mod.	ne.	clear.
Powhatan, Norfolk, Va.	30.02	762.5	71	21.7	91	ne.			3		10		ne.					cloudy.
Quinnebaug, Alexandria, Egypt*	29.83	757.7	84	28.9	79	nw.			4		5		nw.			sm'h		fair.
Ranger, Mare Island, Cal	30.05	763.3	61	16.1	88	wsw.			1		10			0	0			overcast.
Richmond, Yokohama, Japan*	29.79	756.7	78	25.6	95	calm			0		5			0	0			fair.
Saratoga, N. 34° 03′, W. 12° 43′	30.03	762.7	70	21.1	95	ene.			4		5		n.	0	0	mod.	e.	fair.
St. Louis, League Island, Pa.	30.36	771.1	62	16.7	83	nne.			2		0			0.05	1.3			clear.
Swatara, Sengapore, Malay *	29.73	755.1	81	27.2	83	nne.			1		10		calm			sm'h		cloudy.
Tennessee, Portland, Maine†	30.20	767.1	60	15.6	88	ne.	6.5	2.9			0			0	0			clear.
Vandalia, Portsmouth, N. H*	30.13	765.3	63	17.2	72	calm			0		0							clear.
Wabash, Boston, Mass.	30.15	765.8	60	15.6	100	nw.	1	0.4			2		nw.					clear.
Wachusetts, Fort Wrangle, Alaska†	30.48	774.2	53	11.7	93	ene.			3–6		10		calm	0	0	sm'h		rainy.
Wyoming, off Port Royal Sound*	29.92	760.0	77	25.0	82	sw.	7	3.1			10		calm	0.1	3.			overcast.
Yantic, Portland, Maine	30.18	766.6	62	16.7	88	ne.			1		0							clear.
MERCHANT MARINE.																		
ALLAN LINE.																		
S. S. Grecian, Ismailia, Egypt *	29.79	756.7	95	35.0		nw.			2		1		nw.	0	0			clear.
S. S. Nova Scotian, N. 37° 05′, W. 75° 36′	29.97	761.2	73	22.8		ne.			2		0					sl't	e.	clear.
S. S. Polynesian, N. 55° 48′, W. 35° 30′*	29.81	757.2	54	12.2		nne.			2		2		ne.	0	0	sm'h	n.	hazy.
S. S. Scandinavian, N 55° 12′, W. 13° 18′*†	29.90?	759.4?	58	14.4		nnw.			5		1		nnw.	0	0	high	w.	blue sky.
S. S. Waldensian, N. 42° 47′ W. 67° 20′ *	30.09	764.3	56	13.3		nw.			3		2		nw.	0	0	light	ne.	clear.
AMERICAN STEAMSHIP COMPANY.																		
S. S. British Crown, N. 50° 18′ W. 28° 40′†	29.93	760.2	57	13.9		ese.			5		10			0	0	r'gh	nne.	hazy.
S. S. Indiana, Philadelphia, Pa†	30.32	770.1	66	18.9	90	nw.			3		2		nw.					fine.
S. S. Lord Clive, Liverpool, Eng *†	29.49	749.0				nw.			6		4		nw.	3 h'r	3 h'r			fine.
S. S. Lord Gough, Philadelphia, Pa.	30.12	765.0	63	17.2		ne.			4		2		ne.	0	0			fair.
S. S. Ohio, Liverpool, Eng			58	14.4	93				7									squally.
AMSTERDAM LINE.																		
S. S. Stella, N. 48° 07′, W. 32° 08′	29.81	757.2	68.0	20		e.			3		9		sw.	0	0	4	n.	misty.
ANCHOR LINE.																		
S. S. Alexandria, N. 41° 01′ W. 30° 03′			73	22.8		sw			6		7		w.	sh's	sh's	6	ssw.	cloudy.
S. S. Assyria, N. 47° 41′, W 22° 24′*	30.04	763.0	59	15.0		s.			4		10			2 h'r	2 h'r	mod.	nw.	hazy.
S. S. Bolivia, N. 42° 11′ W. 59° 59′*†	29.97	761.2	59	15.0		ne.			4		10		ne.	3 h'r	3 h'r	r'gh	ne.	threatening.
S. S. Devonia, N. 41° 11′, W. 66° 28′†	30.11	764.8	61	16.1		n.			3		0					short	n.	clear.
S. S. Dorian, N 46° 53′, W. 37° 16′*	29.54	750.3	70	21.1		s.			3		6		w.	5 h'r	5 h'r	long	n.	cloudy.
S. S. Ethiopia, N. 53° 53′, W. 25° 35′	29.95	760.7	56	13.3	100	w.			1		8		w.	½ h'r	½ h'r		cf'd	cloudy.
S. S. Utopia, N. 36° 16′, W. 7° 40′†	30.28	769.1	74	23.3	76	ene.			2		0			0	0	sl't	ese.	clear.
ATLAS LINE.																		
S. S. Alene, Aspinwall, Panama†	29.79	756.7																
BRITISH METEOROLOGICAL OFFICE.																		
Auckland, S. 48° 38′ E. 134° 48′	29.35	745.5	46	7.8	69	w.			4		2							blue sky.
S. Baroda, N. 34° 08′, W. 39° 11′	30.09	764.3	79.5	26.4	86	sw.			4		5							d. clouds.
S. S. Basil, N. 31° 54′, W. 21° 13′	30.23	767.8	72	22.2	78	ne.			3		5							blue sky.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH METEOROLOGICAL OFFICE.—Continued.																		
S. S. British Merchant, N. 10° 51′, W. 26° 55′	30.00	762.0	75.8	24.3	95	wsw.			2		9							raining.
S. S. City of Agra, S. 39° 42′, E. 88° 55′	29.97	761.2	53.8	12.1	100	w.			5		10							overcast
S. S. Coppename, N. 9° 25′, W. 57° 25′	30.01	762.2	75	23.9	90	sw.			2		8							d. clouds.
Bk. Caldew, S. 32° 32′ E. 54° 05′	30.31	769.9	63	17.2	94	sw.			4		8							d. clouds.
S. S. Humboldt, off Cape Frio, Brazil	30.12	765.0	68.2	20.1	90	sw.			3		10							overcast.
S. S. Minho, S. 34° 36′, W. 58° 10′	30.35	770.9	52	11.1	86	ene.			2		4							d. clouds.
S. S. Oamaru, N. 45° 24′, W. 27° 40′	30.01	762.2	70.3	21.3	95	s.			4		6							misty.
CUNARD LINE.																		
S. S. Bothnia, N. 50° 34′, W. 20° 14′	30.01	762.2	62	16.7	83	w.			4		5		w	12 h'r	12 h'r	mod.	w.	
S. S. Gallia, N. 48° 38′, W. 30° 50′	29.82	757.4	65	18.3	?	se.			4		fg.			0	0		ne.	foggy.
S. S. Marathon, Lake Ismalia, Egypt			85	29.4		wnw.			3		3?		wnw.	0	0	sm h	wnw.	cloudy?
S. S. Scythia, N. 41° 01′, W. 67° 50′	30.03	762.7	61	16.1	94	n.			1		0			0	0			clear
DONALDSON LINE.																		
S. S. Colina, N. 54° 55′ W. 22° 42′†	29.98	761.5				w.			1		7		w.			long	nw.	cloudy.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 45° 42′, W. 39° 36′ †	29.60	751.7	75.2	24		sw.			4	10 ck		sw.		0	0		sw.	overcast.
S. S. Ville de Marseilles, N. 42° 03′ W. 47° 01′*†	29.80	756.9	75	23.9		w.			0		4		wsw.	shr's	shr's	h'vy	wsw.	fair.
GUION LINE.																		
S. S. Arizona, N. 51° 17′, W. 16° 16′	29.99	761.7	56	13.3		wnw.			4		8		nw.	sh'rs	sh'rs	mod.	nw.	
S. S. Wisconsin, N. 40° 49′, W. 69° 50′	30.06	763.5	59	15.0		n.			4		0			0	0	sm'h		clear.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Cimbria, N. 41° 27′, W. 57° 42′	29.92	760.0	59	15.0		ne.			5		10		ne.	5 h'r	5 h'r	long	ne.	cloudy.
S. S. Frisia, N. 53° 40′, E. 5° 50′ *	29.27	743.4	62.5	16.9		sw.			5		8		sw.	1 h'r	1 h'r	r'gh	wsw.	cloudy.
S. S. Herder, N. 42° 50′, W. 42° 36′ *	29.37	746.0	80	26.7		w.			2		4		w.	0	0	mod.	sw.	fair.
S. S. Silesia, New York, N. Y	30.13	765.3	68.2	20.1		nne.			3		0			0	0			fair.
S. S. Vandalia, Hamburg, Germany*	29.43	747.5	60.8	16.0		ssw.			3-4		5		ssw.	0	0			fair.
S. S. Wieland, N. 49° 49′, W. 17° 20′	30.10	764.5	62	16.7		w.			5		3		w.	2 h'r	2 h'r	5	wnw.	clearing.
INMAN LINE.																		
S. S. City of Berlin, N. 44° 30′, W. 56° —′	29.93	760.2	55	12.8	80	nne.			5		9		nne.	1 h'r	1 h'r	mod.	ne.	hazy.
JOHNSTON LINE.																		
S. S. Nessmore, off Cape Henry, Va.			78	25.6	95	e.			5		5		ese.			long	ene.	fair.
S. S. St. Albans, N. 39° 50′, W. 56° —′ *†	29.70	754.4				nw.			3		10		nw.	0	0	sm'h		cloudy.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 5° 00′, W. 29° 00′*†	30.19	766.8	80	26.7		sse.			5		4		sse.	0	0	long	ssw.	clear.
LEYLAND LINE.																		
S. S. Bulgarian, N. 50° 33′. W 27° 26′*	29.98	761.5				se.			3		10		wnw.	3 h'r	3 h'r	light	wnw.	overcast.
MALLORY LINE.																		
S. S. Colorado, N. 32° 00′, W. 79° 38′ †	29.94	760.5	79	26.1		sw.			3		6		sw.	sqll's	sqll's	mod.	sw.	fair.
S. S. San Marcos, N. 25° 07′, W. 80° 07′	30.02	762.5				e.												fine.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Naples, Italy*†	30.13	765.3	76	24.4	86	wsw.			2		2			0	0			clear
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 22° 40′, W. 60° 31′	29.69	754.1				ese.			4		2		se.	0	0	mod.	se.	clear.
S. S. Glenapp, Rio de Janeiro, Brazil†	30.17	766.3				var.			2		3		var.	0	0	sm'h		clear.
MORGAN LINE.																		
S. S. Chalmette, N. 31° 38′, W. 80° 04′†	29.97	761.2	81	27.2		sw.			3		8		sw.	1 h'r	1 h'r	sm'h		fair.
NATIONAL LINE.																		
S. S. Denmark, N. 49° 06′. W. 18° 27′	30.05	763.3	58	14.4		w.			4		8		w.	1½h'r	1½h'r	hv'y	wnw.	cloudy.
S. S. England, N. 40° 48′ W. 57° 44′†	29.92	760.0				nne.			6		8		nne.	0	0	mod.	ne.	cloudy.
S. S. Erin, New York N. Y	30.25	768.3	71	21.7		se.			3		0			0	0			hazy.
S. S. Helvetia, Liverpool, Eng.	29.42	747.3	63	17.2		w.			2		8		nw.	10 h'r	16 h'r			showery.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, St. Jago, Cuba, W. I †	30.07	763.8	80	26.7		n.			1		2			0	0			fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Vera Cruz, Mexico†	29.89	759.2	80	26.7		wnw.			2		8		ese.	3 h'r	3 h'r			fair.
S. S. City of Washington, N. 23° 13′, W. 82° 17′*†	30.15	765.8	85	29.4		se.			2		5		se.	0	0	sm'h		fine.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Lone Star, N. 38° 25′ W. 74° 00′*†	30.08	764.0	69	20.6		ne.			7								ne.	clear.
S. S. Maas, N 45° 59′, W. 42° 33′ *	29.48	748.8	70	21.1		wsw.											e.	rainy.
NORTH GERMAN LLOYD.																		
S. S. America, N. 49° 58′ W. 24° 03′*	30.01	762.2	56.0	13.3	67				2		10		w.	2 h'r	2 h'r	long	nw.	cloudy.
S. S. Donau, N. 50° 22′, W. 2° 34′	29.62	752.3				wnw.			8		8		wnw.	16 h'r	16 h'r	cross	wnw.	cloudy.
S. S. Elbe, Bremerhaven, Germany	29.66	753.3	64.4	18.0	86	w.			3-4		8		w.	0	0			cloudy.
S. S. Graf Bismarck, Santos, Brazil	30.08	764.0	67.1	19.5		ne.			4		3		ne.	6 h'r	6 h'r	light	n.:se.	cloudy.
S. S. Habsburg, N. 40° 22′, W. 72° 00′	30.17	766.3	68.0	20.0		nne.			4		0			0	0	mod.	nne.	fair.
S. S. Koln, N. 39° 55′ W 55° 28′*	29.88	758.9	69.0	20.6	70	nne.			2		10		ne.	1 h'r	1 h'r	mod.	nne.	cloudy.
S. S. Kronprinz F. William, Antwerp, Belgium	29.65	753.1				w.			6		8		wnw.	16 h'r	16 h'r			raining.
S. S. Main, N. 44° 01′, W. 57° 00′	29.85	758.2	48.2	9.0		nnw.			4		8		e.			mod.	nnw.	cloudy.
S. S. Neckar, N. 49° 28′, W 27° 42′	30.00	762.0	61.0	16.1	100	s.			4		10		s.	0	0	sm'h	s.	foggy.
S. S. Oder, N. 51° 09′, E. 1° 38′	29.41	747.0	60.8	16.0		wsw.			6		8		wsw.	2 h'r	2 h'r	r'gh	wsw.	squally.
S. S. Ohio, N. 49° 27′, W. 12° 52′	29.98	761.5				wnw.			5		5		wnw.	0	0	r'gh	wnw.	fair.
S. S. Saller, Bremerhaven, Germany	29.53	750.0	54.5	12.5		w.			4		8		wsw.	3 h'r	3 h'r			cloudy.
S. S. Strassburg, N. 41° 10′, W. 64° 15	30.02	762.5	62.0	16.7	94	nne.			3		4		n.	0	0	sm'h	nne.	fair.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 38° 04′, E. 147° 38′	29.89	759.2	77	25.0	100	wsw.			1-3		2		w.	0	0	sm'h		clear.
S. S. Belgic, Hong Kong, China†	29.97	761.2	83	28.3	75	calm			0		2			0	0			clear.
S. S. Gaelic. N. 33° 03′, E. 135° 53′†	30.05	763.3	79	26.1	82	calm			0		4		sw.			sm'h		misty.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga †	30.02	762.5				calm			0		10?		ssw.	0	0			clear?
S. S. Seminole, Vineyard Sound, Mass †	30.17	766.3	68	20.0	79	n.			6		1		ne.	4 h'r	4 h'r	sm'h		clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash Ter.†	30.32	770.1	65	18.3	89	nnw.			1		0							clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, Columbia River, Oregon†	30.15	765.8	59	15.0	82	nnw.			5		0							clear.
S. S. Oregon, N. 44° 36′, W. 124° 23′†	30.03	762.7	58	14.4	64	n.			1		0					light	nw.	clear.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Diego, Cal †	29.90	759.4	63	17.2	94	calm			0		0							clear.
S. S. City of Chester, San Francisco, Cal			55	12.8	100	w.			1		8		nw.					cloudy.
S. S. Idaho, Port Townsend, Wash. Ter. †	30.20	767.1	48	8.9	92	nw.			4		0			0	0			clear.
S. S. State of California, San Francisco, Cal.†	30.03	762.7	54	12.2	?	sw.			2		10							overcast.
S. S. Victoria, N. 38° 43′, W. 123° 41′ †	29.98	761.5	49	9.4	100	calm			0		8			0	0	sm'h		fair.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 24° 40′, W. 152° 28′	30.04	763.0	70	21.1	90	ne.			3		1		ne.	0	0	mod.	ne.	clear.
S. S. City of New York, Sydney, N. S. W†	29.91	759.7	63	17.2	83	n.			1		0			0	0			clear
S. S. City of Pekin, Hong Kong, China †	30.02	762.5	84	28.9	75	w.			1		5		sw.	0	0			fair.
S. S. City of Sydney, N. 34° 50′, W 130° 36′†	30.22	767.6	64	17.8	68	nw.			2		2		nw.	0	0	mod.	nw.	fair.
S. S. City of Tokio, N. 42° 46′, E. 176° 43′ †	30.55	776.0	61	16.1	77	sse			2		5		sse.	0	0	small	se.	fine.
S. S. Colima, Panama, Panama†	29.83	757.7	77	25.0	86	nw.			2		1		w.	0	0			clear.
S. S. Clyde, N. 17° 05′, W. 101° 28′ †	29.89	759.2	83	28.3	71	e.			3		2		ne.	0	0	long	sse.	clear.
S. S. Zelandia, Sydney, N. S. W	29.83	759.2	60	15.6		calm			0		0							
QUEBEC STEAMSHIP CO.																		
S. S. Bermuda, Antigua, W. I †	30.05	763.3	85	29.4		e.					7		e.	rain	rain	gentle	ene.	showery.
S. S. Muriel, N. 37° 15′, W. 70° 50′	30.02	762.5	73	22.8		ne.			6		10			sh'rs	sh'rs	r'gh	ne.	fair.
RED STAR LINE.																		
S. S. Belgenland, N. 49° 08′, W. 8° 00′†	29.99	761.7	63	17.2	89	nw.			7		6		nw.			h'vy	nnw.	squally.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.			
RED STAR LINE.—CONTINUED.																		
S. S. Nederland, N. 50° 12′, W. 18° 50′†	30.17	766.3	55	12.8	87	w.			3		10		nw.	0	0	mod.	nw.	cloudy.
S. S. Pennland, N. 41° 33′, W. 59° 26′	30.00	762.0				nne.			6		10		ne.	1 h'r	1 h'r		ne.	threatening.
S. S. Vaderland, N. 48° 59′, W. 13° 06′	29.88	758.9	60	15.6	82	wnw.			5		5		wnw.	0	0	high	w.	cloudy.
S. S. Waesland, Antwerp, Belgium	29.46	748.3	63	17.2	78	ssw.			5		10		ssw	3 h'r	3 h'r			cloudy.
ROTTERDAM LINE.																		
S. S. Edam, N. 50° 02′, W. 10° 31′	29.74	755.4	59.0	15.0	94	wnw.			7		6		wnw.			high	w.	squally
S. S. Schiedam, N. 49° 34′, W. 6° 16′	29.81	757.2	66.9	19.4	81	wnw.			6		5		nw.	2 h'r	2 h'r	h'vy	nw.	cloudy.
S. S. W. A. Scholten, Rotterdam, Hollands*	29.58	751.3	60.1	15.6	88	wsw.			1		9		sw.	6 h'r	6 h'r			heavy rain.
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, N. 32° 02′, W. 74° 12′	29.97	761.2	82	27.8		sw.			4				nw.	2 h'r	2 h'r	cross	var.	rainy.
STATE LINE.																		
S. S. State of Indiana, N. 47° 19′ W. 50° 30′†	29.84	757.9	56	13.3		ne.			6		6		ene.	3 h'r	3 h'r	r'gh	ne.	hazy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 54° 34′, W. 28° 16′†	30.24	768.1	57.2	14.0	81	ese.			2		6		ese.	2 h'r	2 h'r	mod.	ese	covered.
WARREN LINE.																		
S. S. Iowa, N. 51° 54′, W. 19° 00′*†	30.11	764.8	58	14.4		wnw.			4		2		wnw.	1 h'r	1 h'r	r'gh	wnw.	clear.
WHITE STAR LINE.																		
S. S. Adriatic, N. 45° 24′, W. 40° 23′*†	29.80	756.9	78	25.6	86	s.			3		2		se.	0	0	mod	s.	fair.
S. S. Celtic, Liverpool, England†	29.52	749.8	60	15.6	94	nw.			6		10		nw.	h'vy	h'vy			cloudy.
S. S. Republic, N. 45° 36′, W. 50° 49′†	29.81	757.2	59	15.0	94	nw.			3		4		nw.			mod.	nnw.	misty.
WILSON LINE.																		
S. S. Romano, N. 45 14′, W. 27° 55′	29.96	761.0	71	21.7		ssw.			4		2		nw.	0	0	mod.	wnw.	clear.
S. S. Salerno, N. 48° 45′, W. 34° 03′*	29.54	750.3	73	22.8		se.			3		10		se.	0	0	mod.	nw.	foggy.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa.†	30.18	766.6	66	18.9		ne.			1		0			0	0			
MISCELLANEOUS.																		
Bk. Adelaide, N. 11° 05′, W. 44° 35′*†	30.00	762.0	85	29.4		s.			4		1		s.	0	0	mod.	cross	fair.
Schr. Ajax, N. 33° 30′ W. 78° 18′†	30.03	762.7				ne.			3		10		w.	6 h'r	6 h'r	mod.	sse.	cloudy.
Schr. Anna A. Holton, N. 23° 19′, W. 82° 59′†	29.91	759.7	86	30.0		se.			4		3		se.	0	0	mod.	ese.	clear.
Bk. Anna Thornnann, S. 5° 59′ E. 106° 56′	29.92	759.9	83.3	28.5	69	ne.			2	2 c		se.		0	0			clear.
S. S. Antonio Lopez, Santander, Spain*	30.10	764.5	71.5	21.9	69	nw.			3		4			0	0	mod.		fair.
Schr. Asa Eldridge, N. 25° 27′, W. 81° 50′†	30.14	765.5				sse.			3		5		sw.	0	0	sm'h		hazy.
Bk. Aureola, N. 25° 42′, W. 62° 37′*†	30.25	768.3	92?	33.3?		se.			1		2		se.	0	0	light	se.	clear.
Bk. B. F. Watson, N. 2° —′ W. 27° 30′†	30.02	762.5	79	26.1		se.			4		2		se.	0	0	mod.	se.	fine.
Bk. Bremen, N. 44° 41′, W. 52° 11′*†	29.86	758.4				nnw.			6		10		nnw.	5 h'r	5 h'r	cross		light rain.
S. S. Burswell, N. 35° 12′, W. 48° 29′*†	30.05	763.3	80	26.7		wsw.			5		6		wsw.	3 h'r	3 h'r	str'g	wnw.	squally.
Bk. Cato, Hudiksvall, Sweden*†	29.75	755.6				s.			2									cloudy.
Bk. Celestina, N. 35° 52′, W. 37° 00′*†	30.06	763.5				sw.			2		4		w.					clear.
S Dora, S. 36° 17′, W. 20° 40′†	30.13	765.3	62.6	17.0		n.			5		10 n		nnw.	2 h'r	2 h'r	mod.	wnw.	cloudy.
Schr. Edith R. Seward, Newport News, Va*†	30.10	764.5	74	23.3		nne.			2		7		ne.	8 h'r	8 h'r			cloudy.
S. E. J. Spicer, N. 50° 20′, W. 2° 15′*	29.60	751.8	64	17.8		nw.			7		7		nw.	sq 'lls	sq 'lls	high	nw.	fair.
Bk. E. L. Pettingill, N. 41° 16′, W. 145° 12′†	30.30	769.6				sse.			6		1		s.	0	0	mod.	sw.	
S. Enoch Train, Bremerhaven, Gert	29.09	754.1				sw.			6		8		sw.					showery.
Dr. Essex, Aden, Arabia*†	29.80	756.9	89.3	31.8		ssw.			7					0	0			
Bk. Franklin, Stettin, Prussia*†	29.82	757.4				sw.			4					0	0			fair.
Bk. Freya, N. 49° 20′, W. 17° 15′			60	15.6		n.			4		5		nnw.	0	0	high	nw.	fair.
S. Glendon, N. 27° 20′ W. 45° 40′†	30.19	766.8	88	31.1		s.			2		9		s.	0	0	sm'h		fair.
Bk. Godefroy, N. 12° 04′ W. 28° 45′	29.99	761.7	79.3	26.3	81	nnw.			2		6		nne.	sh'rs	shr's	long		light rain.
S. Grecian, N. 1° 15′, E. 106° 40′*†	29.93	760.2	83	28.3		sse.			3		9?		sw.	0	0	sm'h		clear.
Bk. Gronsvaer, N. 5° 00′, W. 14° 10′†	30.01	762.2				s.			5		5		s.	0	0	sm'h		fair.
Bk. Hattie G. McFarland, N. 38° 06′, W. 74° 50′*†	30.14	765.5	69	20.6		ene.			4		0			0	0	r'gh	ene.	clear.
Schr. Henry Denison, N. 17° 30′, W. 79° 15′†	30.07	763.8				se.			6		7		se.	h'v'y	h'vy	high	se.	fair.
Bk. Horace Scudder, N. 27° 14′ W. 66° 38′†	30.25	768.3	86	30.0		sse.			1		2		sw.	0	0	long	e.	blue sky
S. Ivy, S. 51° 04′, W. 50° 04′†	30.23	767.8	36	2.2		nw.			5		10		nw.			mod.	ssw.	drizzling.
S. Ismir, N. 18° 25′, E. 116° 35′†	29.97	761.2				calm			0		1		calm	0	0	sm'h		fine.
Schr. Jennie N. Huddell, Philadelphia, Pa.†	30.07	763.8	67	19.4	90	ne.			3		2			0	0			clear.
Schr. John L. Thomas, N. 16° 35′, W. 80° 00′*†	30.04	763.0				e.			3		2		e.	0	0	mod.	e.	fine.
Bg. John Wesley, Guantanamo W. I.†	29.83	757.7				nnw.			1		3			0	0			fair.
Bkt. Josephine, N. 23° 52′, W. 81° 18′†	29.98	761.5	86	30.0	75	se.			3		8		se.	0	0	sm'h		fair.
Bkt. Kryolith, N. 38° 45′, W. 71° 26′*†	30.07	763.8				ene.			6		2		nne.	0	0	rg'h	e.	clear.
Light House Tender, Laurel, Key West, Fla†	30.02	762.5	86	30.0		sse.			1–2		6		se.	1 h'r	1 h'r			fair.
S. S. Madrid, N. 43° 00′, W. 55° 28′*†	29.94	760.5	59	15.0		n.			5		8		n.	slight	slight	mod.	n.	misty.
Schr Maggie Abbott, N. 19° 26′, W. 72° 43′†	29.97	761.2									4			2 h'r	2 h'r			
S. S. Malabar, N. 37° 57′, E. 175° 24′†	30.37	771.4				se.			2		0			0	0	sm'h		clear.
S. Minnie N. Gerow, N. 41° 28′, E. 4° 03′*†	30.10	764.5				sw.			4		5		w.				v	fine.
S. M. P. Grace, N. 8° 30′, W. 117° 20′*	29.96	761.0	80	26.7		ssw.			3				s.	rain	rain	short	sse.	raining.
Bk. National Eagle, Antwerp, Belgium						sw.			5		5		s.	0	0			
S. S. Nebo, N. 37° 39′, W. 64° 44′*†	29.89	759 2				ne.			6		10		ne.	8 h'r	8 h'r	cross	ne.	cloudy.
Schr. Ocean Traveller, St. Croix, W. I†	30.01	762.2				e.			4		5		e.			mod.		squally.
S. Oracle, N. 28° 22′, W. 42° 20′*	30.18	766.6	83	28.3	91	calm			0		2 ks							clear.
S. Orealla, N. 0° 18′, W. 24° 37′*	29.97	761.2				se.			4		3		se.	0	0	long	ese.	clear.
S. St. Francis, N. 13° 29′, W. 32° 55′†	29.90	759.4	86	30.0		e.			2		3		e.	0.16	4.1	cross		fine.
Schr. S. B. Hubbard, Gardiner, Maine†	30.20	767.1	61	16.1		ne.			3		0			0	0			fine.
Bk. Sunbeam, N. 38° 14′ W. 10° 06′†	30.20	767.1	66	18.9	94	n.			7		10		nne.	0	0	hv'y	nne.	cloudy.
S. S. Sunbeam, Swansea, Wales	29.54	750.3	58	14.4	87	nw.			4		8		nw.					squally.
S. Sovereign of the Sea, S. 56° 47′, W. 79° 45′*†	29.26	743.2	40	4.4	100	ese.			3		10		e.	2 h'r	2 h'r	cross	n.	cloudy.
U.S.F.C.S.S. Fish Hawk, Wood's Holl, Mass†	30.29	769.4	60	15.6	82	ne.			2		1		calm	0	0			clear.
Schr. Victor Ping, Santa Marta, U. S. C						calm			0		3		s.					fair.
Schr Viola Reppard, Savanah, Ga†	29.95	760.7	81	27.2		calm			0		10			0	0			cloudy
Bg. Wauburn, N. 37° 22′ W. 74° 50′*†	30.00	762.0				ene.			6		5		ene.			h'vy	ene.	
Bk. Warden Law, N. 30° 06′, W. 23° 51′*	30.19	766.8				e.			2				e.	1 h'r	1 h'r	sm'h	ene.	fair.
S. Wm. Woodbury, N. 55° 28′, W. 22° 09′*	29.99	761.7	60	15.6	70	ne.			2		4		ne.			cross	n.	

International Chart I. August 29, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

SIGNAL SERVICE U.S. ARMY

By Order of the Secretary of War.

W. B. Hazen, Chief Signal Officer.

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 30, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers.
Algerian.																			
Nemours			30.13	765.4	79.5	26.4	83	s.			1		0			0	0	clear	Bouvier.
Algiers			30.11	764.9	81.0	27.2	61	e.			1		0			0	0	clear	Thève.
La Galle			30.12	765.1	76.6	24.8	77	ne.			3		0			0	0	clear	Fonfréde.
Tunis			30.11	764.8															Jacques.
Saida			30.16	766.0															Perès.
Tebessa			30.13	765.4	82.4	28.0	23	ne.			1		0			0	0	clear	Rigaud.
Geriville					92.1	33.4	10	w.			6		1			0	0	very fair	Louchamp.
Laghouat			30.17	766.4	95.0	35.0	27	n.			2		1			0	0	very fair	Abraham.
Biskra			30.16	766 0	92.8	33.8	32	sw.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.75	755.6	29.84	757.9	52.5	11.4	72	nnw.	11	4.9			7			0.22	5.6	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.37	746.0	29.91	759.8	56.5	13.6	94	e.			2		10			0.701	17.8	raining	Prof. Ivan Stozir.
Cracow, I. R Observatory	29.05	737.9	29.80	756.8	65.5	18.6	52	ssw.	15.0	6.7			8			0.559	14.2		Dr. Wierzbiski.
Eperies	28.99	736.3	29.85	758.1	62.2	16.8	81	s.			1		10 ns			0.606	15.4		Julius Mikolik.
Gratz	28.74	729.9	29.97	761.2	60.4	15.8	87	sw.			2		10			0.157	4.0		Andreas Rospini.
Hermannstadt	28.46	722.8	29.81	757.2	78.4	25.8	50	sse.			3		3			0.205	5.2		Prof. A. Gottschling.
Kremsmunster, Obs'y	28.63	727.1	29.95	760.6	60.6	15.9	00	w.			3		8			0.146	3.7	very cloudy	The Staff.
Lemberg	28.84	732.6	29.81	757.2	60.1	15.6	80	s.			2		10			0.268	6.8		Dr. T. Stanecki.
Pola	29.74	755.4	29.85	758.1	79.0	26.1	64	w.			2		5			0.150	3.8		I. R. Hydrographic Office.
Szathmar	29.37	746.0	29.82	757.4	66.6	19.2	90	w.			2		9			0.177	4.5		Joseph Midlinszay, S. J.
Szegedin	29.67	753.7	29.95	760.8	57.6	14.2	83	w.			1		7			0.520	13.2		Karl Staucel.
Trieste	29.77	756.2	29.87	758.8	75.2	24.0	71	w.			1		10			0.322	8.2		Royal Academy.
Vienna	29.23	742.4	29.93	760.1	65.8	18.8	49	w.			3		5			0.059	1.5		I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.80	756.9	29.90	759.4	55.6	13.1	70	nnw.	17	7.6			6			0.010	0.3	squally	W. Boswell
Armagh, Observatory	29.84	757.9	30.07	763.8	58.2	14.6	71	nw.	5	2.2			8					d. clouds	S. Call.
Bidston, Liverpool Obs'y			29.98	761.5	57.7	14.3	78	w.	33	14.8			0					overcast	John Hartnup.
Bolton, Sharples	29.42	747.3	29.95	760.7	60.1	15.6	73	w.	30	13.4			6					d. clouds	Thomas Mackereth.
Bradford, Yorkshire	29.50	749.3	29.90	759.4	61.4	16.3	58	nw.			2		4			0.12	3.0	d. clouds	McLandsborough & Preston
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	84.0	28.9	71	ne.			2		6					gloomy	Corpl. J. Surgenor, A. H.C.
Cardington			29.94	760.5	63.6	17.6	75	w.			2.0		7					thnd'r storm.	John McLaren.
Chatham, School M. E.	29.83	757.7	29.96	761.0	63.8	17.7	59	w.			1		7			blank	blank	gloomy	Lance Cpl. G.A. Pickles.
Falmouth, Observatory	29.91	759.7	30.14	765.5	61.8	16.6	68	nw.			2		6					d. clouds	The Staff.
Fort Napier, Natal	27.54	699.5	29.76	755.9	85.0	29.4	13	e.			1		1					blue sky	Corpl. F. Milner, A. H.C.
Free Town, Sierra Leone	29.73	755.1	29.96	761.0	82.0	27.8	78	w.			2		6						Sergt. John Robinson.
Gibraltar, Mediterranean	30.05	763 3	30.10	764.5	78.0	25.6	84	e.			2		0					blue sky	Corpl. F. Norris, A. H.C
Glasgow, Observatory	29.75	755 6	29.96	761.0	60.3	15.7	59	wnw.			4		7 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.80	756.9	29.96	761.0	64.9	18.3	54	nw.			4		5					d. clouds	The Staff.
Guernsey	29.83	757.7	30.13	765.3	63	17.2	78	wnw.			2		6					d. clouds	A. Collenette, F. M. S.
Kew, Observatory	29.95	760.7	29.99	761.7	62.9	17.2	50	wnw.	17	7.6			7					d. clouds	The Staff.
Leicester, Museum	29.71	754.6	29.96	761.0	63.0	17.2	74	sw.			2		6					d. clouds	J. C. Smith.
Malta, Mediterranean	29.94	760.5	30.01	762.2	81.6	27.6	86	nw.			2		0					blue sky	W. D. Ballau.
Nassau, Bahamas	30.06	763.5	30.11	764.8	85.0	29.4	68	se.			2		8					overcast	C. S. Duncombe.
Oscott, St. Mary's College	29.46	748.3	29.98	761.5	59.9	15.5	99	nw.			5		5					d. clouds	Warren Middleton.
Oxford, Radcliffe Obs'y	29.76	755.9	29.99	761.7	63.1	17.3	57	w.			4		4					squally	The Staff.
Plymouth	30.02	762.5	30.09	764.3	64.5	18.1	67	wnw.			1		8					d. clouds	John Merrifield.
Sandwick Manse, Orkneys			29.93	760.2	53.3	11.8	77						8					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.75	755.6	29.82	757.4	86.0	30.0	47	ne.			2		3					d. clouds	W. H. Lyne.
Sheffield	29.65	753.1	29.92	760.0	63.9	17.7	69	w.			2		7			0.10	2.5	overcast	W. F. Cooper.
Silloth Rectory	29.90	759.4	29.93	760.2	63.7	17.6	76	nw.			2		5			0	0	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.96	761.0	58.0	14.4	67	wnw.	20	8.9			6					d. clouds	I. New.
Strathfield Turgiss					64.7	18.2	55	nw.			2		8					d. clouds	Rev. C. H. Griffiths, F.M.S
Truro, Royal Institution	30.11	764.8	30.12	765.0	68	20.0	60	nw.			6		5					d. clouds	W. Newcombe.
Valencia, Observatory	30.09	764.3	30.12	765.0	61.5	16.4	70	w.	6	2.7			8					d. clouds	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.03	762.7	30.07	763.8	63	17.2	72	w.	6	2.7		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	30.02	762.5	30.08	764.0	59	15.0	75	sw.	3	1.3		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	30.04	763.0	30.06	763.5	58	14.4	80	sw.	5	2.2		2 k	hz.	calm		0	0	clear	J. McWilliams.
Fort Garry, Manitoba*	29.42	747.3	30.26	768.6	44	6.7	93	n.	4	1.8		0	0			0	0	clear	James Stewart.
Halifax, N. S*	30.01	762.2	30.11	764.8	58	14.4	80	calm	0	0		2 c	0			0	0	fair	A. Allison.
Kingston, Ontario*	29.86	758.4	30.18	766.6	68	20.0	84	s.	5	2.2		0	0			0	0	clear	A. P. Knight, M. A.
Montreal, Quebec*	29.97	761.2	30.17	766.3	67	19.4	81	w.	4	1.8		0	0			0	0	clear	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.48	748.8	30.16	766.1	62	16.7	90	ne.	4	1.8		0	0			0	0	clear	Rev. R. Mosley.
Port Dover, Ontario	29.49	749.0	30.15	765.8	69	20.6	95	s.	5	2.2		2 k	0	e.		0	0	fair	H. Morgan.
Port Stanley, Ontario	29.50	749.3	30.13	765.3	68	20.0	76	se.	2	0.9		2 c	0	se.		0	0	fair	M. Payne.
Quebec, Quebec*	29.85	758.2	30.16	766.1	65	18.3	84	e.			1	0	hz.			0	0	clear	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.73	755.1	30.18	766.6	60	15.6	100	w.	1	0.4		5 k	0	w.		0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.43	747.5	30.12	765 0	65	18.3	84	se.	5	2.2		0	0			0	0	clear	
St. Andrews, N. B.	30.08	764.0	30.13	765.3	55	12.8	86	calm	0	0		0	0			0	0	clear	
Sydney, C. B*	30.01	762.2	30.06	763.5	58	14.4	83	sw.	10	4.5		0	0			0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.81	757.2	30.18	766.6	64	17.8	84	ne.	6	2.7		5 ck	5 ks	sw.	sw.	0	0	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.10	764.5	30.17	766.3	54	12.2	93	w.	2	0.9		2 c	0	w.		0	0	clear	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.77	730.7	30.14	765.5	59.0	15.0	91	sw.			2	3 k	0	sw.		0	0	clear	Wm. Wylie.
St. Johns, Newfoundland	29.85?	758.2?	30.10?	764.5?	55	12.8	74	sw.	1	0.4		5 k	5 s			0.10	2.5	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.00	762.0	30.02	762.5	55	12.8	93	w.	14.8	6.6			10 n					raining	C. Hansen.
Cape Town, C. G. H. Obs'y	30.18	766.6	30.21	767.3	60.0	15.6	60	wsw.	17	7.6		4	4			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity. Per cent	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers
CHINESE (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.89	759.3	29.92	759.9	70.9	21.6	91	nnw.	6.0	2.7		7 cs	0	ssw.		0.008	0.2		M. Marc Dechevrens, S.J.
DANISH.																			
Copenhagen	29.37	746.1	29.42	747.3	61.9	16.6	61	wnw.	18	8			9						Oversergent Fischer.
Fanöe	29.44	747.7	29.46	748.2	60.1	15.6	88	wnw.			6		9						Overloerer Lauridsen
Godthaab, Greenland	29.95	760.7	29.99	761.8	43.2	6.2	88	calm			0		1			0	0		S. Kleinschmidt.
Ivigtut	29.97	761.2	29.99	761.7	39.4	4.1		calm			0		10					foggy	
Stykkisholm, Iceland	29.97	761.2	30.01	762.3	48.6	9.2	72	se.			2		0						A. O. Thorlacius.
Thorshavn	30.00	761.9	30.03	762.8	47.8	8.8	66	n.	13	6			7						Overloerer Bergh.
Vestervig	29.35	745.6	29.45	747.9	60.8	16.0	76	nnw.			4		8						Loerarer Oesterboi.
FRENCH.																			
Agen, Normal School	29.61	752.1	30.25	768.3	66.9	19.4	68	nw.			1		8		w.	0	0	very cloudy.	M. Labroue, Directo..
Alençon, Normal School	29.60	751.8	30.15	765.8	64.4	18	76	sw.			1		kn	w.	w.	0	0		M. Nicot, Director.
Arras, Engineer School	29.72	754.9	29.97	761.3	62.6	17.0	62	se.			6		kn		se.	0.291	7.4		M. Fénéon, Command't.
Avignon, Normal School	30.02	762.4	30.10	764.4	74.1	23.4	49	n.			3		0			0	0	clear	M. Giraud, Director.
Bar-sur-Seine	29.56	750.7	30.10	764.6	62.6	17.0	58	wsw.			1		10		w.	0	0	covered	M. Saillard, Director.
Beauvais, Normal School	29.78	756.4	30.05	763.2	59.7	15.4	85	wnw.			2		8		w.	0.138	3.5	very cloudy	M. Frère Eugène Maris.
Besançon, Normal School	29.19	741.3	30.00	763.6	64.4	18	72	sw.			1		5		nw.	0	0	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.96	761.0	30.22	767.5	66.9	19.4	63	wsw.			1		10			0.043	1.1	covered	M. Rayet, Director.
Bourges, Normal School	29.60	751.7	30.14	765.5	61.7	16.5	66	wsw.							wsw.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.95	760.6	30.19	766.8	70.9	21.6	69	wnw.			1		6		nw.	0.031	0.8		M. de Kermaree, Dir.
Caen, Normal School	29.96	760.9	30.04	762.9	54.3	12.4	86	w.			2		5		w.	0	0	cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.69	754.0	30.00	762.0	63.5	17.5	68	w.			4		5			0.016	0.4	cloudy	M. Jadot, Director.
Charleville, Normal School	29.45	747.9	29.94	760.5	62.6	17	60	nw.			6		8			0.217	5.5	raining	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.82	732.0	30.15	765.9	64.8	18.2	52	w.			2		8		w.	0.008	0.2	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.32	744.8	30.13	765.2	60.6	15.9	58	nw.					10		wnw.	0.421	10.7		M. de Villemontée, Dir.
Commercy, Normal School	28.13	714.6	30.05	763.2	62.2	16.8	67	w.			4		10 kn	w.	w.	0.35	9.	light rain	Dr. Coulet, Director.
Gap, Normal School	27.59	700.7	30.04	763.0	71.8	22.1	22	s.			4		4		s.	0	0		M. Jeanginard, Director.
Gréasque, du Rhone	28.94	735.1	30.03	762.8	70.9	21.6	27	nw.			4		1		nw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.26	743.3	30.02	762.5	65.1	18.4	49	n.			3		k	e.	ne.	0.126	3.2		M. Ablard, Director.
Lamballe, Normal School					66.2	19.0	63	nw.			2		5		nw.	0	0	cloudy	M. Olitrault, Director.
Lescar, Normal School	29.62	752.4	30.18	766.5	69.8	21.0	58	w.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	30.09	764.2	30.19	766.8	64.0	17.8	86	w.			1		8		nw.	0	0	¾ covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.13	739.8	30.17	766.4	63.3	17.4	47	nw.			1	0	8 k;n		nw.	0.083	2.1	¾ covered	M. André, Director.
Mans, Normal School	29.84	757.8	30.14	765.6	63.0	17.2	60	wnw.			1		8		w.	0	0	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.79	756.6	30.05	763.3	72.5	22.5	34	nw.			4		2		wnw.	0	0		M. Stephan, Director.
Montlouis																			M. Cave, for Dr. Fines.
Montpellier, Normal School	29.90	759.5	30.03	762.7	69.8	21	82	w.			4		2			0	0	slightly cl'dy	M. Galzin, Director.
Nancy, Normal School	29.28	743.8	30.06	763.4	61.2	16.2	75	w.			1		10 kn			0.102	2.6	rainy	M. Hasse, Director
Nantes, Observatory	29.66	753.4	30.22	767.5	65.7	18.7	63	wnw.			1–2		9 k;kn		wnw.	0	0		M. Larocque, Director.
Perpignan, Observatory	30.04	762.9	30.14	765.6	72.0	22.2	51	nw.	22.4	10.0			8		wsw.	0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.46	545.1			44.8	7.1		w.			2		1		w.	0	0	clear	Gen'l de Nansouty, Dir.
Privas, Normal School	29.04	737.6	30.09	764.3	64.4	18	90	n.			4		0			0	0	clear	M. Tallieu.
Puy de Dôme Obs'y, Summit	25.32	643.0			42.3	5.7	99	wnw.			6		8			0.394	10.0	foggy	M. Allnard, Director.
Rochefort, Naval Obs'y	30.16	766.1	30.19	766.9	67.6	19.8	78	w.			2		10		w.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.97	761.2	30.18	766.6	62.1	16.7	80	wnw.			2		5	ese.	ese.	0.012	0.3	cloudy	M. Mouillot, Director.
Rodez, Normal School	28.09	713.4	30.21	767.2	59.0	15.0	72	nw.			1		8		sw.	0.142	3.6	very cloudy	M. Seger, Director.
Rouen, Normal School	30.01	762.3	30.06	763.5	65.5	18.6	69	w.			2		5	sw.		0.91	23.	cloudy	M. Brotier.
Saint Maur, Observatory	29.89	759.3	30.06	763.5	67.1	19.5	56	wnw.			1		3		w.	0	0		M. Renou, Director.
Toulouse, Observatory	29.55	750.5	30.28	769.0	71.6	22.0	50	nw.			4		5	nw.		0	0	cloudy	M. Baillaud, Director.
Tours	29.97	761.3	30.15	765.8	67.6	19.8	57	sw.			1		5	sw.	sw.	0	0	cloudy	M. de Tastes.
Versailles, Observatory	29.58	751.3	30.07	763.8	65.5	18.6	59	nw.			2					0	0		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.78	756.4	30.07	763.8	67.3	19.6	58	w.			2		6		wnw.	inap.	inap.	sprinkling	M. Marié Davy, Director
GERMAN.																			
Ansbach	28.52	724.4	29.96	761.0	55.4	13.0	78	w.			6		9	w.		0.524	13.3		Prof. Jnedt.
Bamberg	29.04	737.7	29.89	759.3	62.1	16.7	70	w.			5	0	5 k		w.	0.157	4.0		Prof. Dr. Hoh.
Berlin	29.43	747.4	29.60	751.8	59.5	15.3	85	w.			2		8			0.492	12.5		Prof. Dr. Arndt.
Breslau	29.26	743.2	29.79	756.6	63.5	17.5	56	sw.			3		8	w.		0.213	5.4		Royal University Obs'y.
Carlsruhe	29.55	750.5	29.98	761.6	58.6	14.8	84	sw.			5		10	sw.		0.142	3.6	rainy	Albert Senz.
Cassel	29.04	737.6	29.75	755.7	56.5	13.6	84	w.			6		10	sw.		0.276	7.0		Dr. H. Möhl.
Frankfort-on-the-Main	29.53	750.1	29.89	759.1	64.4	18.0	72	wsw.			3		9			0.311	7.9		Physical Society.
Friedrichshafen	28.64	727.5	30.06	763.5	60.4	15.8	65	w.			6		7	wnw.		0.118	3.0		Wilhelm, Chief Tel.
Hamburg	29.50	749.4	29.60	751.7	60.6	15.9	68	w.			6		8			0.102	2.6		E. Preller.
Kiel	29.51	749.5	29.52	749.9	57.0	13.9	85	wsw.			5		10			0.039	1.0		Prof. Dr. G. Karsten
Leipsic, Astrom'l Obs'y	29.34	745.1	29.75	755.6	60.4	15.8	66	w.			6		8	wnw.		0	0	stormy	H. Leppig, Asst.
Magdeburg	29.48	748.7	29.66	753.4	59.4	15.2	87	w.			6	c	8 ks		w.	0.654	16.6		Dr. Assmann.
Memel	29.44	747.8	29.48	748.9	59.7	15.4	83	sw.			6	0	6 k					showery	Isserimann.
Munich	28.21	716.5	30.08	763.9	59.2	15.1	63	nw.			5		7	w.		0.717	18.2		Dr. C. Lang.
Neufahrwasser	29.50	749.4	29.52	749.8	65.5	18.6	54	ssw.			5		7			0.008	0.2		A. Lothes.
Neustadt, Palatinate	29.37	746.1	29.90	759.4	59.2	15.1	76	w.			2		10	w.		0.138	3.5		Dicknether.
Stuttgart	29.03	737.3	29.90	759.5	63.5	17.5	54	w.			6		7	w.		0.102	2.6		Prof. Dr. Schoder.
Wustrow	29.50	749.3	29.53	750.0	57.9	14.4	82	sw.			5	0	8 s			0.752	19.1		Profs. Brandes & Reimer
GREEK.																			
Athens	29.50	749.3	29.87	758.6	88.5	31.4		w.			0.5		1			0	0		Schmidt & Wourlisch
INDIAN.																			
Kurrachee	29.67	753.6	29.72	754.8	82.0	27.8	79	wsw.	24.0	10.7			9		ssw.	0	0	gloomy	
Deesa	29.20	741.7	29.66	753.4	90.0	32.2	48	wsw.	8.0	3.6			6	s.	sw.	0	0	d. clouds	
Bombay	29.73	755.1	29.77	756.0	79.5	26.4	86	nw.	13.0	5.8			10		wnw.	0.17	4.3	overcast	
Poona, Yarrowda	27.89	708.3	29.73	755.2	78.8	26.0	72	w.	8.0	3.6			10	w.	w.	0	0	threatening.	
Trichinopoly	29.51	749.6	29.79	756.7	80.3	26.8	76	wnw.	1.0	0.4			10			0	0	overcast	
Bellary	28.24	717.2	29.69	754.1	82.3	27.9	71	ne.	6.2	2.8			10			0	0	gloomy	
Belgaum	27.22	691.3	29.75	755.7	74.7	23.7	84	w.	2.0	c.9			4	e.	sw.	1.29	32.8	showery	
Lahore	28.83	732.3	29.56	750.9	83.0	28.3	83	se.	8.0	3.6			10					raining	
Roorkee	28.74	729.9	29.64	752.8	76.4	24.7	92	se.	1.6	0.7			7			4.10	104.1		
Agra	29.10	739.1	29.66	753.3	84.7	29.3	79	ne.	4.0	1.8			6		n.	0	0	d. clouds	
Nagpur	28.68	728.4	29.72	754.8	78.2	25.7	88	n.	4.0	1.8			10		s.	0.50	12.7	overcast	
Jubbulpore	28.35	720.2	29.71	754.6	76.6	24.8	88	nw.	2.5	1.1			10		w.	0.97	24.6	overcast	
Lucknow	29.26	743.1	29.63	752.5	83.4	28.6	81	calm	0.6	0.3			8	ese.		1.47	37.3	d. clouds	
Allahabad	29.33	745.1	29.64	752.9	83.4	28.6	81	calm	0	0			8			0.02	0.5	d. clouds	
Patna	29.51	749.5	29.69	754.2	85.4	29.7	74	sse.	2.2	1.0			6	sse.	sse.	0.05	1.3	d. clouds	
Hazaribagh	27.69	703.3	29.69	754.2	77.6	25.3	84	sw.	6.2	2.8			10	sw.	ne.	1.56	39.6	thud'rstorm	
Cuttack	29.64	752.9	29.72	754.9	84.2	29.0	77	calm	0	0			7			0	0	d. clouds	
Calcutta, Alipore	29.70	754.4	29.72	755.0	84.0	28.9	81	ssw.	4.0	1.8			9	sw.	sw.	0.05	1.3	d. clouds	
Dhubri	29.61	752.1	29.73	755.1	76.9	24.9	91	calm	0	0			7	ssw.		0.93	23.6	d. clouds	
Chittagong	29.70	754.4	29.79	756.7	81.2	27.3	86	s.	3.7	1.6			7			0	0	d. clouds	
Sibsagar	29.40	746.8	29.74	755.4	81.0	27.2	83	w.	4.0	1.8			8	e.	e.	0.17	4.3	d. clouds	
Jeypore	28.23	717.1	29.65	753.2	84.9	29.4	70	nw.	4.5	2.0			9		nw.	0	0	d. clouds	
Zanzibar, Africa	30.02	762.5			83.7	28.7	52	ese.	7.5	3.4			3		se.	0	0	d. clouds	
ITALIAN.																			
Udine	29.47	748.5	29.87	758.6	74.8	23.8	81	calm	0	0			9			0.008	0.2		Prof. Giovanni Cloelig.
Milan	29.35	745.6	29.85	758.2	77.0	25.0	28	nw.	6.3	2.8			1	w.		c.134	3.4		Prof. Schiaparelli.
Padua	29.72	754.9	29.83	757.6	77.0	25.0	53	wnw.	9.4	4.2			6	w.		0.043	1.1		Prof. Dott. Lorenzoni.
Moncalieri	28.99	736.3	29.86	758.5	75.9	24.4	43	nw.	5.6	2.5			1			0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
ITALIAN.—Continued.																			
Genoa	29.70	754.3	29.88	759.0	75.2	24.0	65	se.	9.8	4.4			4	se.		0	0		Prof. G. M. Garibaldi
Mondovi	27.78	710.6	29.81	757.2	76.1	24.5	39	ne.			2		0			0	0		Prof. D. O. Bruno
Pesaro	29.79	756.7	29.84	757.9	81.3	27.4	32	wsw.	20.6	9.2			3			0	0		Prof. Costantino Pittier
Florence	29.68	753.8	29.92	760.0	76.6	24.8	42	sw.			4		5	w.		0	0		Prof. P. Monte.
Leghorn	29.80	756.9	29.88	759.0	75.2	24.0	55	w.	20.6	9.2			5			0	0		Prof. P. Tachini.
Rome	29.79	756.7	29.96	761.0	81.3	27.4	54	sw.	3.1	1.4			3			0	0		Prof. C. de Giorgi.
Lecce	29.70	754.4	29.94	760.5	84.0	28.9	34	ene.	7.4	3.3			0			0	0		Prof. D. Conti.
Cosenza	29.15	740.4	30.00	762.0	79.9	26.6	71	wsw.	4.3	1.9			2	sw.		0	0		Prof. A. Pacinotti.
Cagliari	29.84	758.0	30.03	762.8	84.2	29.0	45	nw.			4		0			0	0		Prof. G. Ciaccia to e.
Palermo	29.80	757.0	30.04	763.1	84.4	29.1	37	ne.	13.7	6.1			0			0	0		Prof. Vincenzo Guiliana
Syracuse	29.96	761.0	30.01	762.2	79.9	26.6	58	wsw.	6.9	3.1			0			0	0		
Sub-series.																			
Naples, S. R	29.49	749.0	30.00	762.0	76.8	24.9	69	sw.	3.1	1.4			9	wnw.		0	0		Prof. T. Brioschi.
Stelvio	22.19	563.6			41.4	5.2	50	ese.			2		4			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.20	564.0			47.1	8.4	46	n.			6		1			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.93	760.2	29.96	761.0	69.1	20.6	87	calm	0	0			10 s		w.	0	0	overcast	K. Ogawa.
Hakodate	29.95	760.7	29.96	761.0	63.5	17.5	83	calm	0	0			10		nw.	0	0	overcast	
Hiroshima, I. M. Obs'y																			S. Takehayashi.
Kioto	29.72	754.9	29.89	759.2	74.5	23.6	83	nnw.	1.7	0.7			10 n					light rain	M. Fojima.
Nagasaki, I. M. Obs'y	29.65	753.0	29.84	758.0	78.2	25.7	90	sw.	9.0	4.0		0	7 s		sw.	1.130	28.7	cloudy	
Nemuro	30.10	764.5	30.17	766.3	65.0	18.3	90	calm	0	0		0	0			0	0	clear	
Niigata	29.87	758.7	29.91	759.7	75.5	24.2	81	e.	1.6	0.7			rock;s		s.	0	0	cloudy	M. Morita.
Nobiru	29.95	760.7	29.97	761.1	72.6	22.6	80	se.	6.6	2.9		6 ck	4 ks			0.005	0.1	covered	H. Midzushima.
Osaka	29.84	757.9	29.85	758.2	75.5	24.2	74	ene.	5.9	2.6			10ks;s			0.010	0.3	cloudy	
Supporo					63.5	17.5	88	calm	0	0			9			0	0	overcast	
Tokei Obs'y, Yeddo	29.89	759.2	29.96	761.1	73.2	22.9	88	e.	4.4	2.0			10 s		s.	0	0	covered	The Staff.
Wakayama	29.84	757.9	29.89	759.2	76.9	24.9	80	calm	0	0		6	4		s.	0	0	cloudy	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	30.01	762.2	30.20	767.1	71.5	21.9	64	ese.	19.5	8.7		0	7 k;ks		ese.	0.06	1.5	fair	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.70	602.1	29.92	760.1	60.3	15.7	81	ne.	2.3	1.0		1 c	0			inap.	inap.	clear	Prof. Vicente Fernandez.
Leon.†	24.33	618.0	30.00	762.0	58.6	14.8	92	nnw.			1	5 c	1 k			0.024	0.6	½ cloudy	Prof. M. Leal.
Mazatlan	29.64	752.7	29.89	759.2	78.5	25.8	86	e.	5.3	2.3		1 cs	1 ks	ne.		0.039	1.0	clear	F. Quijano, U. E.
Mexico, Central Obs'y	23.14	587.7	30.16	766.0	54.7	12.6	87	calm			0	1 c	2 k			0	0	fine	The Staff.
Morelia	24.21	615.0	30.27	768.9	60.8	16.0	53	se.			3	2	2	s.	s.	0.835	21.2	clear	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascallentes	23.96	608.6	29.87	758.7	61.3	16.3	95	calm			0	1 c	0			0.090	2.2	clear	M. Y. de Leon, M. E
Puebla, Catholic Institute	23.42	594.7	30.16?	776.1?	54.5	12.5	84	calm			0		10			0.296	7.5	covered	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	22.58	573.4	30.14	765.6	56.7?	14.6?	74	nne.	4.7	2.1		0	2 s			0	0	clear	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	29.91	759.6	29.91	759.6	58.1	14.5		wnw.			4					0.165	4.2		
Gronlingen	29.65	753.2	29.71	754.6	60.8	16.0		nw.			4					0.189	4.8		
Helder	29.76	755.8	29.76	755.8	59.0	15.0		wnw.			4					0.138	3.5		
Hellevoetsluis	29.84	757.9	29.84	757.9	61.5	16.4	73	w.			4					0.043	1.1		
Utrecht	29.78	756.3	29.82	757.5	59.4	15.2	89	w.			2		8			0.476	12.1	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.41	747.0	29.47	748.6	61.5	16.4	66	nnw.	13	7			2			0.031	0.8		
Brono	29.45	748.0	29.49	749.0	53.2	11.8	74	nnw.	27	12			10			0.126	3.2	raining	
Christiania	29.26	743.3	29.41	746.9	65.5	18.6	60	ene.	4	2			7			0.016	0.4		
Gjæsvær	29.28	743.7	29.30	744.3	44.8	7.1		w.			7		10					raining	
Lodingen	29.36	745.8	29.41	747.0	48.2	9.0	72	n.			6		10			0.720	18.3	rain & fog	
PORTUGUESE.																			
Angra, Azores					73.8	23.2	88	wnw.	9.8	4.4			6			0	0		Dr. J. A. Sampaio.
Campo Major	29.11	739.5	30.05	763.2	94.1	34.5	22	ene.	1.8	0.8			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.11	764.9	30.20	767.1	73.0	22.8	68	wsw.	8.1	3.6			10			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.79	756.7	30.14	765.5	78.1	25.6	48	ssw.	4.9	2.2			0			0	0		The Staff.
Ponta Delgada, Azores	30.17	766.2	30.24	768.0	75.9	24.4	74	s.	11.9	5.3			3			0.031	0.8		
Saint Paul de Loando	29.83	757.7	30.04	762.9	71.6	22.0	82	e.			1		10			0	0		
Serra da Estrella	25.53	648.4	30.02	762.6	75.9	24.4	23	nnw.	3.8	1.7			0			0	0		
RUSSIAN.																			
Akmolinski	29.14	740.1	30.22	767.7	51.6	10.9	53	ne.	16	7		2 ck	0			0	0		Major K. Lasarew.
Archangel	29.55	750.5	29.57	751.0	61.0	16.1	90	calm	0	0			9 n			0.130	3.3	raining	Capt. Sseliwerstow.
Astrakhan	30.07	763.7	29.98	761.6	83.5	28.6	55	sse.	11	5		0	1 s			0	0		Capt. Wisganow.
Barnaul	29.43	747.6	29.94	760.4	44.8	7.1	90	nw.	9	4			10			0.516	13.1		Meteorological Obs'y.
Dorpat	29.42	747.2	29.65	753.2	59.7	15.4	93	sse.	9	4			10 s;n			0.118	3.0		Observatory.
Ekaterinburg	29.21	741.8	30.15	765.7	68.4	20.2	22	sw.	13	6		1 cs	0			0	0		Meteorological Obs'y.
Irkutsk																			
Kasan	29.67	753.6	29.93	760.1	72.7	22.6	39	ssw.	20	9		7 c	0			0.012	0.3		Observatory.
Kertch	29.88	758.9	29.90	759.4	76.1	24.5	80	ne.	9	4		0	0			0	0		Lagorio & Sastyrex.
Kieff	29.22	742.2	29.82	757.5	75.0	23.9	39	s.	20	9		6ck;cs	0						Observatory.
Lugan	29.74	755.3	29.93	760.3	79.0	26.1	45	ese.	9	4		0	0			0	0		Meteorological Obs'y.
Moscow	29.44	747.7	29.89	759.2	70.3	21.3	49	sw.	10.1	4.5		0	5 k						Meteorological Obs'y.
Nikolaiev	29.91	759.8	29.98	761.6	81.9	27.7	37	calm	0	0		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.76	756.0	29.91	759.6	74.8	23.8	70	calm	0	0		0	0			0	0		Physical Observatory.
St. Petersburg	29.63	752.5	29.64	752.9	67.3	19.6	55	ssw.	13	6		6 ck	0			0	0		Central Physical Obs'y.
Semipalatinsk	29.47	748.6	30.15	765.7	44.2	6.8	91	wnw.	20	9			10			0.012	0.3		Major Lasarew
Tashkend, Laboratory	28.42	721.9	29.93	760.1	76.3	24.6	23	nnw.	4	2			0			0	0		Teich, A. M.
Tiflis	28.52	724.4	29.84	758.0	93.0	33.9	41	s.	2	1		0	2 s			0	0		Physical Observatory.
Vladivostock	29.91	759.8	29.98	761.5	63.7	17.6	93	calm	0	0		0	0						
Warsaw	29.28	743.7	29.69	754.2	61.7	16.5	68	wsw.	18	8			10 k						Astronomical Obs'y.
Wilna	29.22	742.1	29.62	752.4	64.4	18.0	74	sw.	13	6			10			0	0	heavy cl'ds	Berg, Assistant.
Yeniseisk	29.60	751.9	29.89	759.2	48.6	9.2	78	w.	4	2			8			blank	blank		M. O. Marks.
SCOTTISH.																			
Monach Lt			30.05	763.3	54	12.2	93	n.			4	10	5	n.		0	0	cloudy	J. Youngclause.
North Unst			29.84	757.9				n.			7	3	7	n.					Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	30.00	762.1	30.11	764.7	79.2	26.2	71	e.	1.8	0.8		0	8			0	0		Antonio Rave, Director.
Bilbao, Met. Obs'y	30.22	767.6	30.28	769.1	74.5	23.6	60	nw.	2.2	1.0		3	5	nw.		0.122	3.1	almost cov	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.28	692.9	30.08	764.1	78.8	26.0	37	n.	4.9	2.2		0	0			0	0	clear	Domingo Martin.
Madrid, Royal Obs'y	27.94	709.6	30.03	762.8	88.9	31.6	24	sw.	6.0	2.7		0	0			0	0	clear	The Staff.
Murcia, Met. Obs'y	29.94	760.5	30.07	763.8	91.4	33.0	46	s.	2.0	0.9		0	0			0	0	clear	Olayo Diaz, Director
Oviedo	29.41	747.0	30.28	769.1	61.7	16.5	86	nw.	3.4	1.5			10 n			0	0		Prof. G. L. Frades.
Santiago, Met. Obs'y	29.25	743.0	30.12	765.0	77.2	25.1	34	calm	0	0		0	0					clear	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.96	761.0	30.02	762.6	78.1	25.6	86	ese.	1.3	0.6		0	0			0	0	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.80	757.0	29.86	758.5	82.4	28.0	79	ese	4.4	2.0		4 c	2 ks		ne.	0	0	fair	P. F. Faura, S. J.
San Fernando, Naval Obs'y	30.02	762.5	30.12	764.9	84.9	29.4	48	e.	8.6	3.9		0	0			0	0		Capt. C. Pujazon R. N.
San Juan de Porto Rico, W. I	29.95	760.8	30.04	763.1	81.0	27.2	88	calm	0	0		4 c	3 kn	e.	se.	0.079	2.0	d. clouds	Manuel Maese.
Tuguegarao, Philippine Id's	29.77	756.1	29.90	759.4	81.0	27.2	80	nw.	4.9	2.2			9 ks		wsw.	inap.	inap.	covered	José L. Yrastorza.
SWEDISH.																			
Haparanda	29.39	746.6	29.43	747.6	62.2	16.8	72	sw.			4		0			0	0		
Umea	29.42	747.3	29.47	748.6	62.6	17.0	78	w.			2		9			0.008	0.2		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
SWEDISH—Continued.																			
Hernosand	29.40	746.8	29.45	748.1	60.8	16.0	75	se.			2		10			0	0		
Stockholm	29.13	740.0	29.31	744.5	57.2	14.0	98	e.			4		10			0.142	3.6	raining	
Wisby	29.10	739.0	29.15	740.5	59.7	15.4	85	sw.			2		10			0.173	4.4		
Sub-series.																			
Upsala	29.26	743.2	29.35	745.4	58.8	14.9	96	ne.	10.7	4.8			10		ene.	1.165	29.6	raining	S. G. Fineman.
SWISS.																			
Geneva	28.73	729.8	30.13	765.2	64.9	18.3	52	sw.			4		10			0.047	1.2	covered	The Observatory.
TURKISH.																			
Constantinople			29.89	759.2	77.5	25.3	54	ene.	15	6.5			3		ne.	0	0		The Observatory.
Valona			30.04	763.1	81.5	27.5		calm			0		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.82	757.3	85.5	29.7	57	wsw.			3		8 s		w.	0	0		Prof. C. V. A. van Dyck.
UNITED STATES.																			
Albany, New York	30.17	766.3	30.25	768.3	66	18.9	70	s.	5	2.2		0	0			0	0	clear	J. O. Barnes.
Alpena, Michigan	29.47	748.5	30.11	764.8	66	18.9	90	s.	1	0.4		0	0			0	0	clear	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.12	638.0	29.84	757.9	59	15.0	72	ne.	2	0.9		0	0			0.40	10.2	clear	W. C. Barnes.
Assinnaboine, Ft., Montana	27.52	699.0	30.27	768.8	57	13.9	49	sw.	5	2.2			10 k		w.	0	0	cloudy	B. O. Lenoir.
Atlanta, Georgia	28.91	734.3	30.06	763.5	65.0	18.3	100	e.	13	5.8			10 n			0.51	13.0	light rain	H. Hall.
Atlantic City, New Jersey	30.25	768.3	30.26	768.6	63.5	17.5	84	n.	4	1.8		0	0			0	0	clear	Jas. M. Watson.
Augusta, Georgia	29.93	760.2	30.12	765.0	70	21.1	90	ne.	7	3.1			10 s		ne.	1.11	28.2	cloudy	John Healy.
Baltimore, Maryland	30.24	768.1	30.29	769.4	62	16.7	78	e.	4	1.8		2 k	fg.	e.		0	0	clear	Robert Seyboth.
Barnegat, New Jersey	30.24	768.1	30.26	768.6	65.0	18.3	73	n.	7	3.1		0	0			0	0	clear	G. A. Hill.
Behring Island, Behring Sea	29.82	757.4	29.84	757.9	54.2	12.3		s.	13	5.8			fg.			0.05	1.3	dense fog	A. Pritchard.
Bennett, Fort, Dakota	28.68	728.5	30.22	767.6	48	8.9	71	calm	0	0		5 k	5 s			0	0	cloudy	S. Wheaton.
Benton, Fort, Montana	27.56	700.0	30.35	770.9	57	13.9	60	w.	5	2.2			10 s			0	0	cloudy	Dr. L. Steineger.
Bismarck, Dakota	28.46	722.9	30.21	767.3	55	12.8	80	calm	0	0		4 ck	4 k	nw.	nw.	0	0	cloudy	Cyrus Cramer.
Block Island, Rhode Island	30.22	767.6	30.24	768.1	65	18.3	78	calm	0	0		0	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.44	697.0	30.19	766.8	54	12.2	64	w.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.08	764.0	30.23	767.8	60.0	15.6	71	w.	6	2.7		1 c	hz.			0	0	clear	O. B. Cole.
Brownsville, Texas	29.91	759.7	29.95	760.7	79.8	26.6	88	calm	0	0		0	4 s			0	0	fair	M. McCarty.
Buffalo, New York	29.46	748.3	30.19	766.8	67.4	19.7	70	se.	5	2.2		0	sk.			0	0	clear	Clarence Weaver.
Buford, Fort, Dakota	28.35	720.1	30.29	769.4	48	8.9	71	nw.	4	1.8		10 cs	0	calm		0	0	cloudy	A. H. Bell.
Burlington, Vermont	29.92	760.0	30.21	767.3	64.3	17.9	74	s.	7	3.1		4 cs	0	w.		0	0	fair	G. C. Schaeffer.
Cairo, Illinois	29.60	751.8	29.99	761.7	68.7	20.4	95	calm	0	0			10 s			0.06	1.5	cloudy	W. H. Ray.
Campo, California	27.38	695.4	29.88	758.9	46.4	8.0	77	w.	2	0.9		0	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	30.16	766.1	30.18	766.6	72	22.2	76	ne.	21	9.4		7 k	0	ne.		0	0	fair	A. K. Alderson.
Cape May, New Jersey	30.22	767.6	30.25	768.3	60.0	15.6	84	ne.	8	3.6		0	0			0	0	clear	W. E. Smith.
Cape Mendocino, California	29.45	748.0			48	8.9	100	calm	0	0			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	30.04	763.0	30.06	763.5	77	25.0	90	e.	4	1.8			10 n		e.	1.73	43.9	heavy rain	F. W. Mixer.
Champaign, Illinois	29.18	741.2	29.97	761.2	69.8	21.0	87	e.	7	3.1			10 s		e.	0	0	cloudy	L. A. Welsh.
Charleston, S. Carolina	29.98	761.5	30.04	763.0	73	22.8	97	ne	8	3.6			10 s			0.08	2.0	threatening	J. H. Smith.
Charlotte, N. Carolina	29.26	743.2	30.10	764.5	62.0	16.7	93	ne.	8	3.6			10 n		ne.	0.23	5.8	light rain	D. O'Donoghue.
Chattanooga, Tennessee	29.25	742.9	30.06	763.5	69.0	20.6	93	s.	2	0.9			10 ks		s.	0.04	1.0	cloudy	B. L. Goulding.
Cheyenne, Wyoming	24.35	618.5	30.05	763.3	45.5	7.5	80	calm	0	0			10 s			0	0	cloudy	E. McGovern.
Chicago, Illinois	29.30	744.2	29.99	761.7	72.0	22.2	84	s.	8	3.6			10 n		s.	inap.	inap.	light rain	J. Mitchell.
Chincoteague, Virginia	30.20	767.1	30.22	767.6	70	21.1	70	se.	6	2.7		0	4 k		se.	0	0	fair	C. F. Dickens.
Cincinnati, Ohio	29.42	747.3	30.06	763.5	70.2	21.2	66	se.	4	1.8			10 s		s.	0.01	0.3	cloudy	J. F. Harrold.
Cleveland, Ohio	29.42	747.3	30.14	765.5	62.8	17.1	74	se.	12	5.4		7 c	0	w.		0	0	fair	J. B. Newlin.
Coleman City, Texas																			L. Dorman.
Columbus, Ohio	29.25	742.9	30.08	764.0	66	18.9	73	e.	8	3.6		0	9 s		s.	0	0	cloudy	D. Cuthbertson.
Concho, Texas	28.18	715.8	30.04	763.0	68	20.0	81	e.	12	5.4		0	5 s		se.	0	0	fair	W. W. McConihe.
Custer, Fort, Montana	27.19	690.6	30.25	768.3	47	8.3	52	n.	3	1.3		0	0			0	0	clear	W. B. Lamar.
Davenport, Iowa	29.35	745.5	29.98	761.5	69	20.6	93	ne.	4	1.8			10s; fg		calm	0.15	3.8	cloudy	R. R. Martin.
Davis, Fort, Texas	25.26	641.6	29.91	759.7	60	15.6	90	ne.	8	3.6			10 ks		ne.	0	0	cloudy	J. Williams.
Dayton, Washington T'y	28.48	723.4	30.19	766.8	47.2	8.4	68	ne.	1	0.4		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.69	652.5	30.12	765.0	46	7.8	65	ne.	3	1.3		7 k	0	n.		0	0	fair	G. W. Scott.
Decatur, Texas					68	20.0	66	n.	8	3.6		0	0			0	0	clear	D. J. Carr.
Delaware Breakwater, Del	30.21	767.3	30.23	767.8	65	18.3	90	ne.	12	5.4		0	0			0	0	clear	T. S. Townsend.
Denison, Texas	29.23	742.4	30.01	762.2	68.4	20.2	84	n.	4	1.8		0	0			0	0	clear	J. McGlone.
Denver, Colorado	25.05	636.3	30.07	763.8	51.0	10.6	86	n.	4	1.8			10 n		ne.	0.04	1.0	light rain	F. M. Neal.
Des Moines, Iowa	29.20	741.7	30.08	764.0	61	16.1	84	n.	6	2.7			10 s		n.	0	0	cloudy	F. W. Conrad.
Detroit, Michigan	29.42	747.3	30.11	764.8	66.7	19.3	78	e.	5	2.2		7 c; ck	0	w.		0	0	fair	O. E. R. Wappenhans.
Dodge City, Kansas	27.63	701.8	30.11	764.8	54	12.2	80	n.	12	5.4			10 s		s.	0.06	1.5	cloudy	W. M. Mattingly.
Dubuque, Iowa	29.33	745.0	30.02	762.5	66.2	19.0	84	nw.	2	0.9			10 s			0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.43	747.5	30.15	765.8	60	15.6	75	nw.	2	0.9		0	8 s		nw.	0.24	6.1	cloudy	N. B. Conger.
Eagle Pass, Texas	29.22	742.2	30.01	762.2	74.1	23.4	90	nw.	2	0.9		0	0			0	0	clear	F. Belford.
Eagle Rock, Idaho	25.54	648.7	30.09	764.3	40	4.4	54	n.	7	3.1		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.07	763.8	30.14	765.5	60.0	15.6	70	s.	1	0.4		6 c	hz.			0	0	fair	D. C. Murphy.
Elliott, Fort, Texas	27.41	695.2	30.05	763.3	51	10.6	74	nw.	24	10.7			10 s		nw.	0	0	cloudy	W. J. Cundall.
El Paso, Texas	26.34	669.0	29.94	760.5	68	20.0	87	e.	12	5.4			10 s		e.	0	0	cloudy	J. F. Marshall
Erie, Pennsylvania	29.45	748.0	30.16	766.1	65	18.3	78	se.	4	1.8		0	fg.			0	0	clear	Peter Wood.
Escanaba, Michigan	29.44	747.8	30.08	764.0	60.5	15.8	86	ne.	13	5.8			10 s		ne.	0	0	cloudy	George Heathcote.
Fredericksburg, Texas	28.31	719.1	30.02	762.5	75	23.9	76	calm	0	0		3 cs	0			0	0	fair	Frank Halwegler.
Galveston, Texas	29.93	760.2	29.98	761.5	79	26.1	91	w.	6	2.7		0	5 ks		se.	0.43	10.9	fair	E. O'C. MacInerney.
Grand Haven, Michigan	29.39	746.5	30.04	763.0	63.5	17.5	84	ne.	6	2.7			10 n		se.	inap.	inap.	light rain	W. A. Reid.
Grant, Fort, Arizona	25.30	642.6	29.87	758.7	63.4	17.4	75	e.	18	8.0		0	1 s			0.05	1.3	clear	Robert C. Lord.
Hatteras, North Carolina	30.10	764.5	30.12	765.0	76	24.4	76	e.	22	9.8		6 ck	3 k	n.	n.	0.06	1.5	cloudy	R. M. Crawford.
Helena, Montana	26.18	665.0	30.26	768.6	56	13.3	42	calm	0	0		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.15	740.4	30.15	765.8	67.0	19.4	63	n.	10	4.5		5 cs	0			0	0	fair	J. W. Byram.
Huron, Dakota	28.86	733.0	30.20	767.1	47	8.3	86	nw.	1	0.4		0	3 s			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.25	742.9	30.02	762.5	68	20.0	84	se.	4	1.8			10 s		se.	0.12	3.0	cloudy	O. Schutze
Indianola, Texas	29.96	761.0	29.99	761.7	77.1	25.1	84	w.	4	1.8		0	3 ks		e.	0.95	24.1	clear	I. A. Reed.
Jacksboro, Texas	28.92	734.6	30.04	763.0	67	19.4	78	n.	4	1.8		5 ck	0	n.		0	0	fair	J. P. Sherry.
Jacksonville, Florida	30.02	762.5	30.06	763.5	79	26.1	82	s.	4	1.8		3 cs	0			0	0	clear	J. W. Smith.
Keogh, Fort, Montana	27.82	706.6	30.24	768.1	48	8.9	66	calm	0	0		4 c	5 s	w.		0	0	cloudy	A. Schneider.
Keokuk, Iowa	29.33	745.0	29.96	761.0	68.5	20.3	90	n.	6	2.7			10 s		n.	0.05	1.3	cloudy	F. Z. Gosewisch.
Key West, Florida	29.99	761.7	30.01	762.2	85.0	29.4	74	e.	3	1.3		0	0			0.04	1.0	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.16	766.1	30.18	766.6	74	23.3	82	e.	19	8.5		hz.	3 s			0	0	clear	E. A. Beals.
Knoxville, Tennessee	29.08	738.6	30.09	764.3	65	18.3	84	ne.	6	2.7			10 n			0.10	2.5	light rain	J. A. Cody.
La Crosse, Wisconsin	29.28	743.7	30.03	762.7	59	15.0	87	n.	12	5.4			10 n			0.12	3.0	light rain	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.22	742.2	30.08	764.0	62	16.7	84	n.	8	3.6			10 s		n.	0.41	10.4	cloudy	A. W. Browne.
Lewiston, Idaho	29.43	747.5	30.24	768.1	55.0	12.8	44	e.	1	0.4		0	0			0	0	clear	W. Bell.
Little Rock, Arkansas	29.66	753.4	29.97	761.2	71	21.7	94	n.	4	1.8			10 s		ne.	0.06	1.5	cloudy	W. U. Simons.
Los Angeles, California	29.53	750.0	29.92	760.0	59	15.0	87	w.	1	0.4		0	0			0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.45	748.0	30.00	762.0	69	20.6	90	e.	3	1.3		3 k; cs	sk.	s.		0	0	clear	H. C. Smyth.
Lynchburg, Virginia	29.55	750.6	30.22	767.6	64	17.8	78	ne.	6	2.7			10 ks		e.	0	0	cloudy	Lewis Duane.
Mackinaw City, Michigan	29.48	748.8	30.12	765.0	65.0	18.3	93	ne.	6	2.7		3 k	0	e.		0	0	clear	F. R. Day.
Macon, Fort, North Carolina	30.07	753.8	30.08	764.0	74	23.3	100	ne.	16	7.2			10 n		ne.	0.60	15.2	light rain	F. P. Chaffee.
Madison, Wisconsin	29.02	737.1	30.00	762.0	66	18.9	93	n.	6	2.7			10 s		n.	0.03	0.8	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.95	659.1			52	11.1	80	ne.	9	4.0		10 k	0			0	0	cloudy	H. W. Dodge.
McKavett, Fort, Texas																			J. E. Thatcher.
Marquette, Michigan	29.41	747.0	30.12	765.0	62	16.7	84	n.	2	0.9			10 s		n.	0	0	cloudy	J. Gilligan.
Memphis, Tennessee	29.64	752.8	29.97	761.2	68	20.0	93	ne.	2	0.9			10 s			0.93	23.6	cloudy	D. T. Flannery.
Milwaukee, Wisconsin	29.26	743.2	30.00	762.0	71	21.7	90	e.	7	3.1			10 s		se.	0	0	threatening	W. Line.

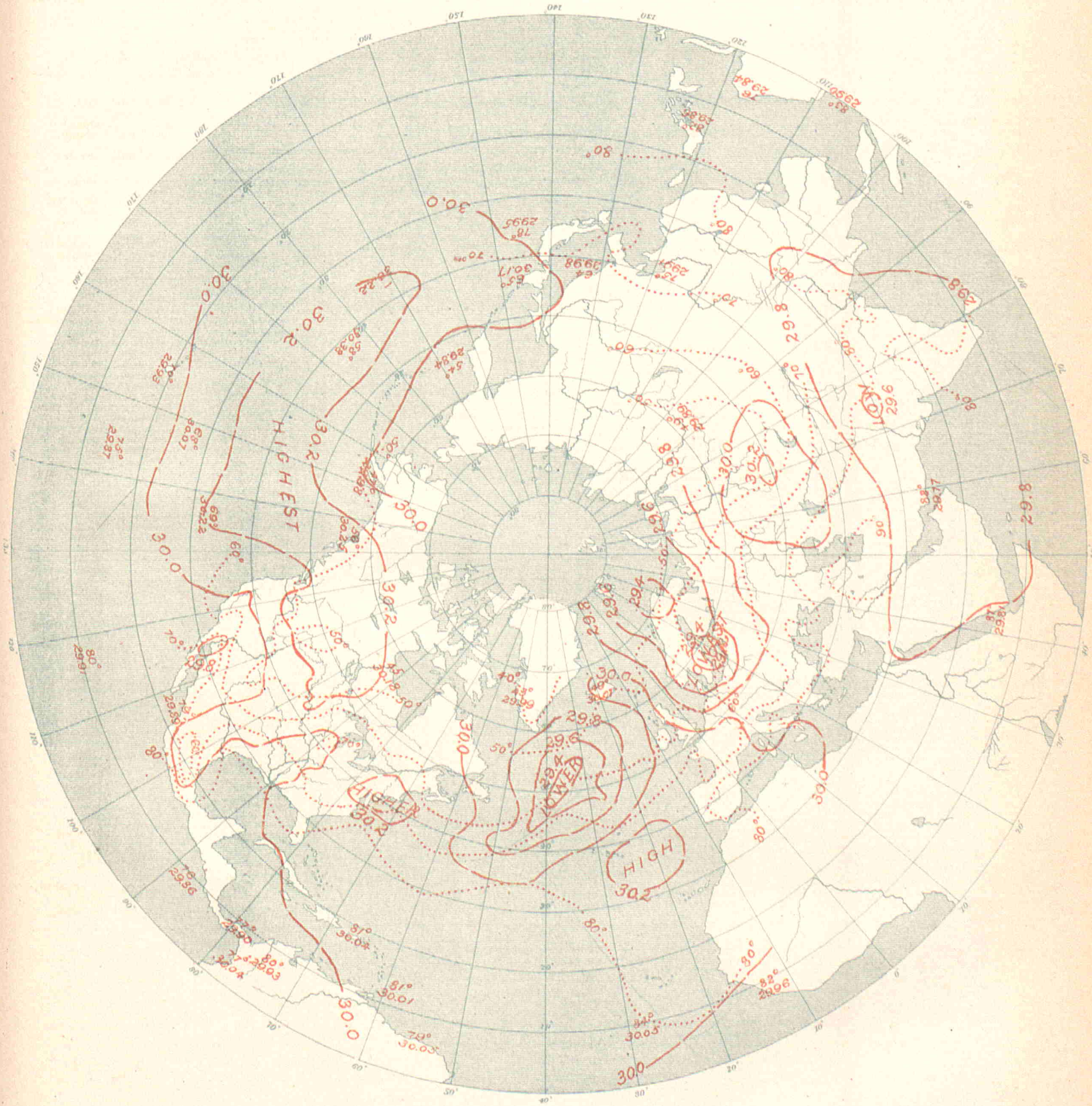
STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent.	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0-10	Clouds. Amount and kind. Upper. 0-10	Clouds. Amount and kind. Lower. 0-10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	WEATHER.	OBSERVERS.
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	27.09	688.1	30.31	769.9	44	6.7	68	sw.	1	0.4		0	0			0	0	clear	J. H. Jones.
Mobile, Alabama	29.97	761.2	30.01	762.2	74	23.3	87	sw.	1	0.4		0	2 ks		sw.	0.01	0.3	clear	O. A. Read.
Montgomery, Alabama	29.79	756.7	30.02	762.5	73.6	23.1	92	se.	3	1.3		hz	9 k; s		W.; s.	0	0	cloudy	J. B. McLaughlin.
Moorhead, Minnesota	29.23	742.4	30.20	767.1	46.1	7.8	93	n.	4	1.8		7 cs	0	n.		0	0	fair	H. Bessant.
Morgantown, W. Virginia	29.18	741.2	30.18	766.6	61.5	16.4	83	calm	0	0		3 ck	1 k			0	0	fair	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.12	612.6	30.20	767.1	45.5	7.5	83	nw.	22	9.8		3 c	0	nw.		0	0	clear	J. G. Lissley.
Nashville, Tennessee	29.44	747.8	30.00	762.0	68.5	20.3	90	e.	2	0.9		5 cs	2 ks	s.	s.	0.89	22.6	fair	L. N. Jesunofsky.
New Haven, Connecticut	30.14	765.5	30.25	768.3	62	16.7	73	calm	0	0		0	sk.			0	0	clear	J. H. Sherman.
New London, Connecticut	30.22	767.6	30.27	768.8	63	17.2	73	calm	0	0		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.93	760.2	29.98	761.5	78.0	25.6	88	sw.	1	0.4		0	8 ks		sw.	inap.	inap.	cloudy	L. Dunne.
Newport, Rhode Island	30.21	767.3	30.26	768.6	63.7	17.6	85	s.	3	1.3		1 c	0			0	0	clear	W. McGillivray.
New York, New York	30.10	764.5	30.27	768.8	64	17.8	73	n.	3	1.3		0	fg.			0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.14	765.5	30.17	766.3	71	21.7	71	e.	6	2.7		0	5 ks		e.	0	0	fair	Wm. Davis.
North Platte, Nebraska	27.35	694.7	30.15	765.8	48.6	9.2	84	ne.	5	2.2		0	5 s			0.28	7.1	fair	E. F. Brady.
Olympia, Washington T'y	30.10	764.5	30.14	765.5	50.0	10.0	86	ne.	1	0.4		0	0			0	0	clear	J. Dascomb.
Ooglaamie, Pt. Barrow, Alas.																			P. H. Ray.
Omaha, Nebraska	29.05	737.9	30.19	766.8	55.1	12.8	93	n.	9	4.0			10s; fg		n.	0.13	3.3	threatening	A. Pollak.
Oswego, New York	29.87	758.7	30.19	766.8	65.3	18.5	87	s.	4	1.8		0	0			0	0	clear	S. W. Beall.
Palestine, Texas	29.46	748.3	30.00	762.0	74.0	23.3	84	n.	1	0.4		0	hz.			0	0	dense haze	L. M. Pindell.
Pensacola, Florida	29.97	761.2	30.00	762.0	73.2	22.9	97	s.	1	0.4		0	7 ks		s.	0.92	23.4	fair	M. McGauran.
Philadelphia, Pa	30.19	766.8	30.29	769.4	61.5	16.4	84	e.	1	0.4		0	fg.			0	0	clear	T. F. Townsend.
Pike's Peak, Colorado	17.98	456.7	29.77	756.1	25	−3.9	100	w.	4	1.8			10 n			0.11	2.8	heavy snow	L. M. Dey.
Pioche, Nevada	24.18	614.2	29.88	758.9	56	13.3	22	nw.	6	2.7		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.38	746.2	30.17	766.3	61.8	16.6	84	e.	4	1.8		5 c; k	0	w.; sw.		0	0	fair	J. B. Turton.
Poplar River, Montana	28.22	716.8						ne.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	29.99	761.7	30.00	762.0	78.3	25.7	87	sw.	9	4.0		0	0			0.08	2.0	clear	M. Hermann.
Port Huron, Michigan	29.45	748.0	30.11	764.8	67.0	19.4	80	se.	1	0.4		9 cs	0	ne.		0	0	cloudy	W. O. Bailey.
Portland, Maine	30.14	765.5	30.18	766.6	63.0	17.2	65	w.	2	0.9		hz.	0			0	0	clear	W. W. Eichelberger.
Portland, Oregon	30.00	762.0	30.07	763.8	62.0	16.7	56	n.	6	2.7		0	sk.			0	0	dense smoke	M. L. Hearne.
Portsmouth, N. C.					75	23.9	90	ne.	26	11.6			10 s			0.48	12.2	cloudy	F. S. Coburn.
Prescott, Arizona	24 84	630.9	29.82	757.4	56	13.3	45	s.	1	0.4		0	0			0	0	clear	J. McN. Wright.
Provincetown, Mass	30.20	767.1	30.23	767.8	65	18.3	84	sw.	3	1.3		2 cs	0			0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.03	762.7	30.04	763.0	78.5	25.8	85	e.	5	2.2		0	1 k		calm	0	0	clear	W. J. Evans.
Red Bluff, California								ne.			1	0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.76	755.9	30.00	762.0	80	26.7	79	se.				0	0			0	0	clear	H. S. Miles.
Rochester, New York	29.52	749.8	30.17	766.3	65	18.3	78	sw.	8	3.6		5 k	hz.	s.		0	0	fair	E. W. McGann.
Roseburg, Oregon	29.49	749.0	30.03	762.7	53	11.7	62	e.	1	0.4		0	sk.			0	0	dense smoke	J. J. Nanry.
Sacramento, California	29.88	758.9	29.95	760.7	58.2	14.6	80	e.	4	1.8		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.39	746.5	29.97	761.2	69.0	20.6	100	calm	0	0		0	9 s; fg			0.62	15.7	cloudy	J. H. Webber.
St. Paul, Minnesota	29.27	743.4	30.11	764.8	61.0	16.1	84	nw.	7	3.1			10 s		n.	0.39	9.9	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.40	746.7	30.25	768.3	46	7.8	93	w.	5	2.2		0	3 ks			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.80	655.3	30.00	762.0	62	16.7	54	ne.	12	5.4		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.30	744.2	29.99	761.7	72.5	22.5	82	calm	0	0		2 c	1 s			0	0	clear	T. J. Kenan.
San Diego, California	29.82	757.4	29.89	759.2	64.8	18.2	93	n.	4	1.8			fg.		nw.	0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.42	747.3	30.08	764.0	66	18.9	73	s.	11	4.9		5 ck	0	s.		0	0	fair	M. H. Perry.
Sandy Hook, New Jersey	30.23	767.8	30.26	768.6	63.0	17.2	90	w.	6	2.7		0	0			0	0	clear	B. A. Blandon.
San Francisco, California	29.96	761.0	30.03	762.7	55	12.8	93	sw.	6	2.7			fg.		sw.	0	0	dense fog	N. Gerom.
Santa Fé, New Mexico	23.40	594.3	29.89	759.2	49	9.4	96	nw.	5	2.2			10 s			1.12	28.4	cloudy	H. U. Jones.
Savannah, Georgia	29.97	761.2	30.06	763.5	73	22.8	90	n.	4	1.8			fg.			1.04	26.4	dense fog	H. W. Ford.
Shaw, Fort, Montana	26.75	679.4	30.28	769.1	52	11.1	61	w.	2	0.9		9 k	0			0	0	cloudy	A. L. Mathews.
Shreveport, Louisiana	29.74	755.4	29.97	761.2	72	22.2	97	calm	0	0		0	4 s			0.05	1.3	fair	E. N. Meekins.
Sill, Fort, Indian Territory	28.86	733.0	30.04	763.0	62.5	16.9	75	n.	16	7.2			10 s		n.	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.40	619.7	29.86	758.4	56	13.3	77	calm	0	0			10 n		calm	0.87	22.1	cloudy	J. B. Wallace.
Sitka, Alaska	30.19	766.8	30.25	768.3	55.6	13.1	83	calm	0	0		2 k	0	sw.		0.03	0.8	clear	J. J. McLean.
Smith, Fort, Arkansas	29.54	750.3	30.00	762.0	68.0	20.0	90	calm	0	0		0	0			0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.02	762.5	30.06	763.5	70	21.1	100	n.	8	3.6			10 n		ne.	1.71	43.4	heavy rain	O. Parker.
Spokane Falls, Wash. Ter.	28.28	718.3	30.28	769.1	48	8.9	71	ne.	1	0.4		0	0			0	0	clear	D. Moore.
Springfield, Illinois	29.31	744.5	29.97	761.2	69.5	20.8	92	se.	2	0.9			4s; fg		se.	0.32	8.1	fair	T. B. Jennings.
Springfield, Massachusetts	30.12	765.0	30.25	768.3	59.9	15.5	81	s.	2	0.9		0	fg.			0	0	clear	T. S. Outram.
Springfield, Mo	28.60	726.4	29.99	761.7	66	18.9	87	ne.	3	1.3			10 ks		ne.	0	0	cloudy	J. B. Marbury.
Starkville, Miss	29.50	749.3	29.97	761.2	73	22.8	84	w.	2	0.9		4 cs	2 s			inap.	inap.	fair	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.44	722.4	30.22	767.6	47	8.3	93	nw.	2	0.9		4 c	3 s			0	0	fair	W. Burrows.
Stockton, Fort, Texas	27.13	689.1	30.07	763 8	63.0	17.2	93	nw.	8	3.6			10 s		nw.	0	0	cloudy	J. O'Dowd.
Thomas Camp	27.27	692.6	29.89	759.2	68.5	20.3	91	e.			2	0	2 ks			0.43	10.9	clear	
Thatcher's Island, Mass	30.17	766.3	30.22	767.6	61.5	16.4	85	sw.	3	1.3		0	sk.			0	0	clear	G. Liebmann.
Toledo, Ohio	29.39	746.5	30.06	763 5	66	18.9	73	se.	2	0.9		7 c; cs	sk.	sw.		0	0	fair	A. Buell.
Tucson, Arizona	27.50	698.5	29.84	757.9	74	23.3	66	se.	4	1.8		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.86	758.4	30.22	767.6	53	11.7	41	se.	4	1.8		0	0			0	0	clear	J. Daly.
Uvalde, Texas	29.04	737.6	29.98	761.5	71	21.7	90	calm	0	0		0	0			1.05	26.7	clear	E. C. Imlay.
Verde, Fort, Arizona					68	20.0	53	ne.			2	2 k	0	s.		0	0	clear	D. Brooks.
Vicksburg, Mississippi	29.73	755.1	29.97	761.2	74	23.3	90	calm	0	0			10 s			0	0	cloudy	James Kenealy.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.80	629.9	30.14	765.5	41.8	5.4	58	nw.	4	1.8		0	0			0	0	clear	T. M. Ambler.
Washington, D. C.	30.16	766.1	30.28	769.1	60.6	15.9	86	ne.	4	1.8		7 k	0	ne.		0	0	fair	F. M. M. Beall.
West Las Animas, Colorado	26.32	668.5	30.07	763.8	53	11.7	93	ne.	6	2.7			10 s			0.08	2.0	cloudy	F. H. Brandenburg.
Williamsport, Pa	29.66	753 4	30.24	768.1	62	16.7	84	se.	1	0.4		0	hz			0	0	clear	B. F. Hough.
Wilmington, N. Carolina	30.02	762.5	30.07	763.8	71	21.7	90	ne.	5	2.2			10 n			0.69	17.5	light rain	Samuel A. Haney.
Winnemucca, Nevada	25.82	655.8	30.05	763.3	50	10.0	18	ne.	10	4.5		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.94	735.1	30.21	767.3	53	11.7	77	sw.	3	1.3		10 ck	0			0.15	3.8	cloudy	J. H. Attield.
Yuma, Arizona	29.60	751.8	29.74	755.4	75.3	24.1	55	calm	0	0		0	0			0	0	clear	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.04	559.8			52.0	11.1	76	e.	2	0.9			8 ks; s		nw.	0	0	cloudy	Joaquin Gómez.
Bridgetown, Barbadoes, W. I	30.00	762.0	30.01	762.2	81	27.2	82	ne.					10 ks			0.32	8.1	cloudy	J. A. Racker.
Buenaventura, U. S. C.	30.01	762.2	30.04	763.0	77	25.0	95	sw.	5	2.2			10 ks		s.	1.20	30.5	cloudy	J. I. Plume.
Havana, Cuba	29.94	760.5	30.00	762.0	79	26.1	82	se.	3.6	1.6		0	0			0	0	clear	Chas. Hasselbrink.
Kingston, Jamaica, W. I.																			Robert Johnston.
Magua, San Domingo, W. I					72	22.2		calm				0	0	2 ck	e.	0.04	1.0		S. M. Pike.
Navassa, W. I	29.88	758.9	29.96	761.0	83	28.3	70	e.	11	4.9		4 cs	2 ks	e.	se.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.05	763.3	30.05	763.3	79	26.1	82	s.			2	3 c	4 ck			0.040	1.0		Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mbia	29.37	746.0	29.93	760.2	80	26.7	95	n.			1		10 ks		n.	0.01	0.3	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77.5	25.3	98	sw.			1	5 cs	5 ks	se.	sw.	1.00	25.4	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	29.92	760.0	29.98	761.5	47	8.3	93	nw.			1	5 cs	0			0	0	fair	W. J. Fisher.
St. Thomas, W. I.	29.98	761.5	30.11	764.8	83	28.3	74	e.				0	6 k		e.	0	0	fair	Aug. Walloe.
York Factory, B. A	30.12	765.0	30.18	766.6	45.0	7.2	92	nw.	11	4.9		2 k	2 s	nw.	nw.	0	0	fair	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, N. 43° 54′ W. 18° 25′	30.17	766.3	71	21.7	78	ssw.			3-4		7							d. clouds.
H. M. S. Alexandra, Port Said, Egypt	29.82	757.4	83	28.3	76	calm			0		5							d. clouds.
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.34	770.6	64.5	18.1	73	nnw.			1-2		3	sw.						d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.91	759.7	76	24.4		n.			3		2	n.						squally.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.17	766.3	59.5	15.3		wsw.			2-5		4	w.						blue sky.
H. M. S. Comus, Esquimalt, Vancouver Island	30.14	765.5	52	11.1	53	calm			0		1							d. clouds.
H. M. S. Diamond, S. 31° 14′, E. 154° 52′	30.10	764.5	67	19.4	79	s.			3		3					1	s.	squally.
H. M. S. Dido, N. 17° 00′, W. 76° 00′	30.01	762.2	83	28.3		e.			3-5		4	e.				1	ene.	d. clouds.
H. M. Dock Yard, Bermuda, W. I.	30.00	762.0	77.5	25.3	77	nne.			2-3		8	nne.						d. clouds.
H. M. S. Eclipse, N. 30° 15′, E. 32° 30′	29.70	754.4	91.5	33.1		wnw.			1		3							d. clouds.
H. M. S. Fantome, N. 13° 04′ W. 59° 37′	29.86	758.4	80	26.7		calm			0		9					2	s.	raining.
H. M. S. Flying Fish, N. 37° 14′, E. 126° 11′	29.82	757.4	68.5	20.3	97	ene.			5-6		10					3	ne.	d. clouds.
H. M. S. Gannet, S. 2° 12′, W. 79° 51′	29.92	760.0	68	20.0	90	ssw.			2		10	ne.						d. clouds.
H. M. S. Iron Duke, N. 39° 00′, E. 127° 58′	29.85	758.2	71	21.7	100	e.			3		8	ene.				1	ene.	d. clouds.
H. M. S. Lark, S. 1° 23′, E. 161° 40′	29.88	758.9	78.3	25.7	92	calm			0		3					1	e.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.06	763.5	59	15.0		e.			1									showery.
H. M. S. Magpie, N. 35° 09′, E. 128° 42′	29.80	756.9	70.1	21.2	87	nnw.			2-3		10							misty.
H. M. S. Minotaur, off Ramleh, Egypt	29.85	758.2	80.5	26.9	76	nw.			4		2					2	nw.	d clouds.
H. M. S. Northampton, Quebec, Quebec, Canada	30.09	764.3	68	20.0	84	ssw.			2		7	ssw.						blue sky.
H. M. S. Orontes, N. 33° 52′, E. 23° 30′	29.95	760.7	77.5	25.3	90	nw.			4		0					3	wnw.	d. clouds.
H. M. S. Pegasus, N. 6° 53′, E. 116° 49′	29.84	757.9	76	24.4	95	w.			3		10					1	sw.	d. clouds.
H. M. S. Sappho, N. 19° 44′, W. 155° 05′	29.93	760.2	70	21.1	100	calm			0		5	ene.				2	ne.	overcast.
H. M. S. Swiftsure, Coquimbo, Chili	30.02	762.5	56	13.3	87	e.			1		10					4	nw.	d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.37	771.4	52	11.1	86	n.			4		3							d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	29.90	759.4	51.5	10.8	82	sw.			1		8	nnw.						d. clouds.
H. M. S. Triumph, S. 13° 22′, W. 38° 30′	30.15	765.8	76	24.4	72	var.			1-2							2	nne.	misty.
H. M. S. Woodlark, Jask, Persia	29.67	753.6	87.5	30.8	75	se.			2		2							
Portuguese Naval.																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.11	764.7	78.8	26.0	88	ne.			3		5		ne.			1		d. clouds.
Tamega, Macao, China	29.87	758.6	84.2	29.0	81	sw.			2		3							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla	29.84	757.9	77	25.0	86	sw.	2	0.9			5		sw.	0.44	11.2			fair.
Navy Yard, Portsmouth, N. H	30.21	767.3	59	15.0	82	calm	0	0			2			0	0			fair.
Naval Hospital, Yokohama, Japan*	29.81	757.2	75.5	24.2	88	e.			1		10		ssw.	0.05	1.3			misty.
Adams, Mare Island, Cal			58	14.4	82	sw.			1		10		sw.	0	0	sm'h		cloudy.
Alaska, N. 15° 58′, W 143° 45′	29.87	758.7	75	23.9	90	nne.			4		5		ne.	0.1	0.3	mod.	n.	fair.
Alliance, Portland, Maine	30.18	766.6	60	15.6	100	wnw.			1		2			0	0	sm'h		clear.
Ashuelot, Yokohama, Japan*	29.86	758.4	77	25.0	91	e.			2		10		e.					rainy.
Brooklyn, S. 23° 08′, W. 43° 07′	30.36	771.1	66	18.9	84	sw.	12	5.4			2		calm	0	0	mod.	s;w.	fair.
Colorado, New York, N. Y.	30.25	768.3	66	18.9	84	nw.	1	0.4			2		calm	0	0			fair.
Constellation, Annapolis, Maryland*	30.23	767.8	66	18.9	89	e.			2		0							clear.
Enterprise, Portland, Maine	30.18	766.6	60	15.6	100	sw.			1		2		sw.					clear.
Essex, Coquimbo, Chili	30.11	764.8	59	15.0	76	calm			0		10					sm'h		overcast.
Franklin, Norfolk, Va	30.17	766.3	71	21.7	80	ene.	12	5.4			2		ene.	0	0			fair.
Galena, S 6° 50′, W. 32° 00′	30.09	764.3	76	24.4	100	sse.			5		10		se.			mod.	se.	squally.
Hartford, Funchal, Madeira*	30.12	765.0	73	22.8	90	nw.			2		10		nw.	0	0	sm'h		cloudy.
Independence, Mare Island, Cal	30.02	762.5	58	14.4	100	n.			5		10			0	0			cloudy.
Iroquois, N 9° 16′ W. 87° 46′	29.86	758.4	76	24.4	86	ese.			3		10					sm'h	ne.	cloudy.
Kearsarge, Portland, Maine	30.14	765.5	60	15.6	100	w.			1		2					sm'h		clear.
Lackawanna, Callao, Peru*	30.00	762.0	60	15.6	94	se.			1		10							cloudy.
Lancaster, Messina, Sicily *	30.02	762.5	79	26.1	66	wnw.			2		5		wnw.	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	30.32	770.1	51	10.6	79	ne.			3		0			0	0	sm'h		clear.
Michigan, Marquette, Michigan	30.08	764.0	61	16.1	88	nw.			1		10		nw.					cloudy.
Minnesota, New York, N. Y.	30.30	769.6	65	18.3	84	wnw.	4	1.8			0							fair.
Monocacy, N. 37° 11′, E. 126° 33′	29.87	758.7	66	18.9	94	nne.			4		10		calm					cloudy.
New Hampshire, Newport, R. I	30.21	767.3	64	17.8	83	sw.			2		0					sm'h		clear.
Nipsic, N. 35° 10′, E. 22° 04′*	29.94	760.5	78	25.6	69	nnw.			4		2		nnw.			sm'h	nnw.	clear.
Onward, Callao, Peru†	30.13	765.3	58	14.4	94	sse.			2		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.80	756.9	76	24.4	82	nne.			1		10		sse.					cloudy.
Passaic, Washington, D. C			61	16.1	88	ne.			1		5							fair.
Pensacola, Payta, Peru*	29.93	760.2	63	17.2	83	se.	7	3.1			10		se.	0	0			cloudy.
Portsmouth, N. 33° 40′, W. 13° 46′ *	30.08	764.0	71	21.7	80	nne.			4		10					mod.	ne.	cloudy.
Powhatan, Norfolk, Va	30.17	766.3	73	22.8	81	e.			2		5		e.					fair.
Quinnebaug, N. 32° 01′, E. 28° 20′*	29.92	760.0	81	27.2	83	wnw.			3		0					m'd.	nw.	clear.
Ranger, Mare Island, Cal	30.03	762.7	60	15.6	82	wsw.			1		10			0	0			overcast.
Richmond, Yokohama, Japan*	29.88	758.9	77	25.0	95	e.			3		10			0	0			cloudy.
Saratoga, off Funchal, Madeira	30.07	763.8	68	20.0	95	ne.			4		10			0	0	sm'h		cloudy.
St. Louis, League Island, Pa	30.47	773.9	60	15.6	88	nnw.			2		0			0	0			clear.
Swatara, Singapore, Malay Peninsula*	29.71	754.6	82	27.8	83	ese.			3		0					sm'h		clear.
Tennessee, Portland, Maine†	30.23	767.8	63	17.2	89	w.	4	1.8			2			0	0			hazy.
Vandalia, Portsmouth, N. H*	30.18	766.6	64	17.8	73	w.			1		5		calm					fair.
Wabash, Boston, Mass	30.23	767.8	61	16.1	71	w.	5	2.2			2		ne.	0	0			clear.
Wachusetts, Fort Wrangle, Alaska †	30.59	777.0	53	11.7	100	ese.			1		10		calm			sm'h		showery.
Wyoming, Tybee Light, Georgia*	30.00	762.0	79	26.1	82	nw.	6	2.7			5		nw.	0.93	23.6			fair.
Yantic, Portland, Maine	30.18	766.6	63	17.2	72	sw.			3		2							clear.
Merchant Marine.																		
Allan Line.																		
S. S. Grecian, Ismailia, Egypt *	29.80	756.9	90	32.2		nnw.			1		0			0	0			clear.
S. S. Polynesian, N. 54° 33′ W. 44° 51′*	29.54	750.3	52	11.1		nne.			4		10			12 h'r	12 h'r	mod.	e.	showery.
American Steamship Company.																		
S. S. British Crown, N. 51° 04′ W. 21° 05′†	29.95	760.7	60	15.6		sse			5		10			7 h'r	7 h'r	mod.	s.	overcast.
S. S. Indiana, Philadelphia, Pa.†	30.17	766.3	67	19.4	90	e.			2		2		e.					fine.
S. S. Lord Clive, Liverpool, Eng *†	29.90	759.4				wnw.			5		5		wnw.	sh'rs	sh'rs			fine.
S. S. Lord Gough, Philadelphia, Pa	30.25	768.3	63	17.2		e.			2		0			0	0			clear.
S. S. Ohio, Liverpool, Eng †			57	13.9	93	n.			6		6		n.					squally.
Amsterdam Line.																		
S. S. Stella, N. 50° 20′, W. 27° 30′	29.59	751.5	64.4	18		ssw.			4		9		sw.	2 h'r	2 h'r	4	sw.	misty
Anchor Line.																		
S. S. Alexandria, N. 41° 26′, W. 33° 33′	29.84	757.9	73.4	23.0		wsw.			4		6		nw.	sh'rs	sh'rs	5	sw.	gloomy.
S. S. Assyria, N. 47° 35′, W. 27° 48′*	29.59	751.6	69	20.6		ssw.			6		4		ssw.	0	0	mod.	ssw.	clear.
S. S. Bolivia, N. 43° 31′ W. 54° 39′ *†	30.00	762.0	56	13.3		ne.			4		10		ne.	1 h'r	1 h'r	mod.	ne.	overcast.
S. S. Devonia, N. 40° 28′, W. 73° 15′†	30.32	770.1	66	18.9		ne.			1		0					sm'h		clear.
S. S. Dorian, N. 47° 40′, W. 32° 44′ *	29.38	746.2	67	19.4		wsw.			3		4		w.	8 h'r	8 h'r	mod.	n	fine.
S. S. Ethiopia, N. 53° 15′ W. 33° 10′	29.29	744.0	55	12.8	?	ssw.			4		10		sw.	8 h'r	8 h'r	mod.	s.	dense fog.
S. S. Utopia, Gibraltar, Mediterranean†	30.34	770.6	70	21.1	76	calm			0		0			0	0	sm'h		clear.
Atlas Line.																		
S. S. Ailsa, N. 38° 08′, W. 73° 05′ †	30.31	769.9	78	25.6	82	sse.			5		2		se.	0	0	mod.	se.	clear.
S. S. Alene, Aspinwall, Panama †	29.82	757.4																
British Meteorological Office.																		
Auckland, S. 48° 46′, E. 141° 03′	29.24	742.7	48	8.9	85	nnw.			6		9							squally.
S. Baroda, N. 34° 48′, W. 37° 20′	30.12	765.0	78.5	25.8	82	wsw.			3		2							blue sky.
S. S. Basil, N. 35° 05′, W. 19° 55′	30.28	769.1	74.8	23.8	68	nne.			2		5							blue sky.
S. S. British Merchant, N. 9° 16′, W. 25° 25′	30.05	763.3	78.2	25.8	86	ssw.			2		8							d. clouds.
S. S. City of Agra, S. 40° 04′, E. 93° 15′	29.67	753.6	54	12.2	97	wnw.			6		8							d. clouds.
Bk. Coppename, N. 9° 37′, W. 57° 40′	30.02	762.5	85.5	29.7	79	ene.			1		2							blue sky.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	Upper. 0–10	Lower. 0–10	Upper. From.	Lower. From.	Inch.	Mill.	Character.	Direction from.	
BRITISH METEOROLOGICAL.—Continued.																		
Bk. Caldew, S. 31° 20′ E. 55° 00′	30.40	772.1	61.1	16.2	88	se.			3		8							d. clouds.
S. S. Humboldt, S. 20° 28′, W. 38° 41′	30.30	769.6	69.0	20.6	87	s.			6		9							overcast.
S. S. Minho, S. 35° 16′ W. 57° 17′	30.33	770.4	52	11.1	90	ne.			5–6		2							d. clouds.
S. Oamarn, N. 47° 43′, W. 23° 30′	29.82	757.4	67.3	19.6	94	ssw.			6								h'vy	misty.
S. S. Mertola, N. 36° 45′. W. 7° 39′	30.11	764.8	76.8	24.9	85	ene.			2		0							blue sky.
S. S. Rosetta, N. 14° 54′, E. 42° 12′	29.71	754.6	86.5	30.3	96	w.			4		0							blue sky.
CUNARD LINE.																		
S. S. Bothnia, N. 49° 42′, W. 28° 19′	29.66	753.4	64	17.8	94	ssw.			4		10			5 h'r	5 h'r	mod.	con.	
S. S. Gallia, N. 50° 16′, W. 21° 44′	29.69	754.1	64	17.8	94	s.			6		4		s.				se.	raining.
S. S. Marathon, Lake Ismalia, Egypt			85	29.4		wnw.			3		3		wnw.	0	0	sm'h	wnw.	cloudy.
DONALDSON LINE.																		
S. S. Colina, N. 54° 33′, W. 29° 38′†	29.50	749.3				ese.			6		7		ese.			h'vy	ese.	drizzling.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 47° 23′, W. 32° 34′†	29.52	749.7	66.2	19		wsw.			4	ck		wsw.		hail	hail		wsw.	hailing.
S. S. Ville-de-Marseilles N. 42° 15′ W. 40° 53′*†	29.75	755.6	72	22.2		wsw.			5		8		sw.	6 h'r	6 h'r	long	sw.	cloudy.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Cimbria, N. 42° 25′, W. 51° 40′	29.86	758.4	61	16.1		ene.			5		10		ne.	10 h'r	10 h'r	long	ne.	misty.
S. S. Herder, N. 45° 49′ W. 35° 47′*	29.31	744.5	80	26.7		wsw.			4		2		wsw.	1 h'r	1 h'r	mod.	wsw.	clear.
S. S. Silesia, New York, N. Y	30.25	768.3	72.3	22.4		ssw.			1					0	0			fair.
S. S. Vandalia, Hamburg, Germany*	29.57	751.1	57.2	14.0		nw.			4		5		nw.	0	0			squally.
S. S. Wieland, N. 49° 53′, W. 24° 54′	29.71	754.6	63	17.2		s.			3		3		sse.	9 h'r	9 h'r	4	sse.	foggy.
INMAN LINE.																		
S. S. City of Berlin, N. 46° 15′, W. 59° —′	29.88	758.9	57	13.9	69	n.			5		5		nne.	0	0	mod.	ne.	fair.
JOHNSTON LINE.																		
S. S. Nessmore, N. 37° 43′, W. 72° 30′ *	29.87	758.7	77	25.0	95	ne.			4		2		e.			mod.	ene.	fair.
S. S. St. Albans, N. 38° 55′, W. 60° 30′*†	30.20	767.1				nnw.			6		5?		n.	4 h'r	4 h'r	mod.	ne.	cloudy.?
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 9° 28′, W. 28° 00′.*†	30.19	766.8	84	28.9		ssw.			4		9?		sw.	0	0			clear?
LEYLAND LINE.																		
S. S. Bulgarian, N. 49° 28′, W. 34° 14′*	29.46	748.3				wnw.			3		10		wnw.	16 h'r	16 h'r	light	nnw.	light rain.
MAILORY LINE.																		
S. S. Colorado, N. 28° 08′ W. 80° 14′ †	30.06	763.5	80	26.7		ssw.			2		0			h'vy	h'vy	small	ssw.	hazy.
S. S. San Marcos, N. 30° 26′, W. 79° 20′	30.02	762.5				e.												fine.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Naples, Italy*†	30.06	763.5	76	24.4	.86	wsw.			3		5			0	0			fair.
MERCHANTS' STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 19° 29′ W 58° 12′	29.63	752.6				ene.			5		10		e.	2 h'r	2 h'r	r'gh	ese.	cloudy.
S. S. Glenapp, off Rio de Janeiro, Brazil	30.17	766.3				var.			2		3		var.	0	0	sm'h		clear.
MORGAN LINE.																		
S. S. Chalmette, N. 27° 25′, W. 80° 05′†	30.12	765.0	82	27.8		e.			1		5		sw.	1 h'r	1 h'r	sm'h		fair.
NATIONAL LINE.																		
S. S Denmark, N. 48° 34′ W. 24° 26′	29.68	753.9	62	16.7		s.			4		10			1 h'r	1 h'r	mod.	wsw.	dense fog.
S. S. England, N. 41° 00′, W. 52° 04′†	29.79	756.7				nne.			6		8		nne.	0	0	r'gh	ne.	cloudy.
S. S. Erin, New York, N. Y	30.25	768.3	74	23.3		nw.			2		0			0	0			clear.
S. S. Helvetia, Liverpool, Eng	29.93	760.2	63	17.2		nw.			2		8		nnw.	2 h'r	2 h'r			showery.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, Saint Jago, Cuba, W. I†	30.07	763.8	80	26.7		calm			0					0	0			fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Vera Cruz, Mexico†	29.94	760.5	76	24.4		wnw.			2		2		ese.	6 h'r	6 h'r			fair.
S. S. City of Washington, Havana, Cuba, W. I.*†	30.20	767.1	86	30.0		calm			0		2		e.	4 h'r	4 h'r	sm'h		fine.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Maas, N. 45° 08′, W. 47° 34′*	29.73	755.1	56	13.3		wnw.											n.	fine.
NORTH GERMAN LLOYD.																		
S. S. America, N. 49° 33′, W. 31° 07′†	29.46	748.3	62.5	16.9	91	ssw.			5		8		w.	4 h'r	4 h'r	sm'h	se.	cloudy.
S. S Elbe, Bremerhaven, Germany	29.69	754.1	62.6	17.0	95	w.			4–6		8		w.	3 h'r	3 h'r			cloudy.
S. S. Graf Bismarck, Santos, Brazil	30.38	771.6	68.0	20.0		e.			1–3		6		e.	2 h'r	2 h'r	light	n.; se.	hazy.
S. S. Hohenstaufen, Bremerhaven, Germany	29.60	751.8	65.3	18.5		nw.			7		6		nw.	10 h'r	10 h'r			cloudy.
S. S. Koln, N. 40° 49′, W. 50° 44′*	29.72	754.9	70.0	21.1	80	nne.			5		10		ne.	2 h'r	2 h'r	long	nne.	raining.
S. S. Kronprinz F. Wilhelm, Antwerp, Belgium	29.68	753.9				nnw.			4–5		6		wnw.	8 h'r	8 h'r			
S. S. Main, N. 46° 41′, W. 51° 22′	29.92	760.0	60.8	16.0		nnw.			5		4		n.			mod.	nnw.	clear.
S. S. Neckar, N. 48° 20′, W. 34° 26′	29.53	750.0	65.0	18.3	94	w.			5		10		w.	12 h'r	12 h'r	mod.	nw.	rainy.
S. S. Oder, N. 50° 37′ W. 1° 46′	30.05	763.3	62.6	17.0		wnw.			4		4		wnw.	0	0	mod.	w.	fair.
S. S. Ohio, N. 49° 48′, W. 6° 39′	30.22	767.0				wnw.			2		5		nw.	0	0	mod.	nw.	fair.
S. S. Salier, Bremerhaven, Germany	29.63	752.6	55.4	13.0		w.			5		8		wsw.	3 h'r	3 h'r			cloudy.
S. S. Strassburg, N. 39° 24′, W. 70° 41′	30.22	767.6	70.5	21.4	73	e.			1		0			0	0	sm'h	e.	clear.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Arabic, N. 36° 28′, E. 144° 53′†	29.95	760.7	78	25.6	91	sw.			2		2		w.	0	0	sm'h		clear.
S. S. Belgic, Hong Kong, China†	30.00	762.0	80	26.7	87	se.			2		2		se.	0	0			clear.
S. S. Gaelic, Yokohama, Japan †	30.08	764.0	80	26.7	87	nw.			3		8		w.			sm'h		cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, Savannah, Ga †	30.11	764.8				ne.			1		10			0	0			dense fog.
S. S. Seminole, Boston, Mass†	30.22	767.6	66	18.9	79	w.			1		1		nw.	0	0			clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash. Ter. †	30.24	768.1	58	14.4	82	calm			0		0			0	0			clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 42° 45′, W. 124° 55′†	29.99	761.7	51	10.6	100	sse.			1		10		s.			sm'h		foggy.
S. S. Oregon, Astoria, Oregon†	30.03	762.7	58	14.4	94	calm			0		10							cloudy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, San Pedro Bay, Cal †	29.88	758.9	62	16.7	94	nnw.			1		10		nw.					foggy.
S. S. Idaho, N. 47° 14′, W. 127° 40′†	30.20	767.1	63	17.2	72	e.			5		0			0	0	mod.	w.	clear.
S. S. State of California, San Francisco, Cal†	30.03	762.7	53	11.7	?	sw.			2		10							overcast.
S. S. Victoria, San Francisco, Calif	30.10	764.5	55	12.8	87	calm			0					0	0			dense fog.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 27° 41′, W. 148° 23′	30.07	763.8	68	20.0	84	calm			0		10			0	0			hazy.
S. S. City of New York, Sydney, N. S. W. †	29.89	759.2	59	15.0	76	sw.			2		5		sw.	0	0			fair.
S. S. City of Pekin, Hong Kong, China †	30.01	762.2	82	27.8	79	calm			0		2		se.	0	0			hazy.
S. S. City of Sydney, N. 32° 37′, W. 135° 49′†	30.22	767.6	69	20.6	80	ne.			2		8		nnw.	0	0	mod.	ne.	cloudy.
S. S. City of Tokio, N. 42° 51′, W. 177° 27′†	30.48	774.2	58	14.4	76	calm			0		0			0	0	mod.	se.	fine.
S. S. Colima, Panama, Panama †	29.90	759.4	77	25.0	91	wnw.			2		7		nw.	0	0			fair.
S. S. Clyde, N. 16° 55′, W. 99° 48′†	29.87	758.7	85	29.4	72	var.			1		2		ne.	0	0			clear.
S. S. Zelandia, Sydney, N. S. W	29.79	756.7	58	14.4		se.			2		2		se.					
QUEBEC S. S. COMPANY.																		
S. S. Bermuda, Antiqua, W. I. †	30.06	763.5	88	31.1		e.			2		6		e.	2 h'r	2 h'r	g'ntle	e.	showery.
S. S. Muriel, N. 39° 54′, W. 73° 50′	30.26	768.6	68	20.0		ne.			2		10			0	0	long	e.	overcast.
RED STAR LINE.																		
S. S. Belgenland, English Channel †.	30.14	765.5	64	17.8	89	nw.			6		8		nw.	0	0	sm'h		fine.
S. S. Nederland, N. 50° 13′, W. 12° 28′†	30.10	764.5	59	15.0	94	ssw.			3		10		ssw.	7 h'r	7 h'r	sm'h	nw.	rainy.
S. S. Pennland, N. 42° 13′, W. 54° 36′	29.96	761.0				nne.			7		8		ne.	3 h'r	3 h'r	r'gh	nne.	cloudy.
S. S. Vaderland, N. 48° 30′ W. 19°, 12′	29.75	755.6	62	16.7	100	s.			5		10			5 h'r	5 h'r	mod.	sw.	foggy.
S. S. Waesland, Antwerp, Belgium	29.81	757.2	63	17.2	72	ssw.			5		8		wsw.	4 h'r	4 h'r			cloudy
ROTTERDAM LINE.																		
S. S. Edam, N. 50° 38′, W. 16° 20′	29.86	758.4	61.5	16.4	91	se.			4		9		w.	9 h'r	9 h'r	mod.	w.	foggy.
S. S. Schiedam, N. 50° 36′, E. 0° 12′	30.02	762.5	64.9	18.3	71	nw.			4		4		nw.	0	0	sm'h		fair.
S. S. W. A. Scholten, Rotterdam, Holland*	29.70	754.4	57.9	14.4	75	nnw			6		6		nw.	7 h'r	7 h'r			rainy.

Vessels, with position at time of observation.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, N. 34° 59′, W. 74° 08′	30.08	764.0	80	26.7	.....	e.	.....	.....	4	.....	5	.....	e.	3 h'r	3 h'r	hv'y	ene.	fair
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.82	757.4	65	18.3	.....	nw.	.....	.....	3	.....	10?	.....	.....	2 h'r	2 h'r	.....	.....	clear.?
S. S. Indiana, N. 49° 22′, W. 45° 50′†	29.94	760.5	53	11.7	.....	nnw.	.....	.....	3	.....	6	.....	ne.	o	o	mod.	ne.	cloudy.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 56° 10′. W. 23° 39′†	30.11	764.8	54.5	12.5	100	ese.	.....	.....	6	.....	10	.....	ese.	6 h'r	6 h'r	h'vy	ene.	covered.
WARREN LINE.																		
S. S. Iowa, N. 51° 48′, W. 27° 25′*†	29.66	753.4	56	13.3	.....	s.	.....	.....	4	.....	6	.....	s.	6 h'r	6 h'r	sli't	se.	hazy.
WHITE STAR LINE.																		
S. S. Adriatic, N. 47° 33′, W. 33° 00′*†	29.67	753.6	67	19.4	95	sw.	.....	.....	4	.....	5	.....	s.	3 h'r	3 h'r	mod.	s.	showery.
S. S. Celtic, Off Mine Head, Engt	30.19	766.8	59	15.0	94	wsw.	.....	.....	2	.....	2	.....	w.	o	o	mod.	w.	fair.
S. S. Republic, N. 43° 24′, W. 58° 53′†	30.17	766.3	56	13.3	87	nnw.	.....	.....	4	.....	0	.....	.....	o	o	mod.	ne.	d. clouds.
WILSON LINE.																		
S.S. Romano, N. 46° 45′ W. 21° 35′	29.86	758.4	68	20.0	.....	sw.	.....	.....	3	.....	10	.....	.....	o	o	mod.	wnw.	overcast.
S. S. Salerno, N. 47° 47′, W. 38° 59′*	29.28	743.7	62	16.7	.....	wnw.	.....	.....	6	.....	6	.....	s.	3 h'r	3 h'r	h'vy	nw.	raining.
WINSOR LINE.																		
S. S. Catherine Whiting, Philadelphia, Pa†	30.32	770.1	76	24.4	.....	s.	.....	.....	1	.....	0	.....	.....	o	o	.....	.....	
MISCELLANEOUS.																		
Bg. Abbie Clifford, N. 42° 07′. W. 69° 57′†	30.33	770.4	61	16.1	.....	s.	.....	.....	4	.....	hz.	.....	.....	o	o	mod.	e.	
Schr. Ajax, N. 33° 12′ W. 79° 05′†	30.17	766.3	.....	.....	.....	ne.	.....	.....	1	.....	10	.....	ne.	o	o	sm'h	ne.	clearing.
Bk. Adelaide, N. 10° 26′. W. 43° 32*†	30.05	763.3	84	28.9	.....	nw.	.....	.....	2	.....	2	.....	sw.	5 h'r	5 h'r	mod.	cross	threatening.
Schr. Anna A. Helton, N. 23° 14′ W. 84° 13′†	30.01	762.2	86	30.0	.....	ese.	.....	.....	3	.....	0	.....	.....	o	o	mod.	ese.	clear.
Bk. Anna Thormann, S. 5° 38′, E. 107° 30′	29.90	759.5	81.7	27.6	74	ne.	.....	.....	3	.....	1 s	.....	se.	o	o	.....	.....	clear.
S. S. Antonio Lopez, Santander, Spain*	30.25	768.3	66	18.9	78	nnw.	.....	.....	2	.....	2	.....	.....	o	o	long	nw.	clear.
Schr. Asa Eldridge, Key West, Florida†	30.09	764.3	.....	.....	.....	sse.	.....	.....	3	.....	5	.....	sse.	o	o	.....	.....	squally.
Bk. Aureola, N. 26° 03′ W 62° 48′*†	30.26	768.6	93?	33.9?	.....	ne.	.....	.....	1	.....	0	.....	.....	o	o	light	e.	clear.
Bk. B. F. Watson, S. 0° 30′ W. 29° 18′†	30.00	762.0	78	25.6	.....	se.	.....	.....	4	.....	4	.....	se.	o	o	mod.	se.	fair.
Bk Bremen, N. 43° 38′ W. 55° 40′*†	30.12	765.0	.....	.....	.....	nw.	.....	.....	6	.....	5	.....	nw.	4 h'r	4 h'r	cross	nnw.	fair.
S. S. Burswell, N 34° 16′, W. 51° 12′*†	29.90	759.4	79	26.1	.....	sw.	.....	.....	6	.....	10	.....	sw	2 h'r	2 h'r	high	wsw.	heavy rain.
Bk. Cato, Hudiksvall, Sweden*†	29.80	756.9	.....	.....	.....	s	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	cloudy.
Bk. Celestina, N. 38° 04′, W. 35° 43′*†	30.06	763.5	.....	.....	.....	sw.	.....	.....	3	.....	3	.....	wsw.	o	o	.....	.....	clear.
S. Dora, S. 38° 17′ W. 16° 28′†	29.79	756.7	66.2	19.0	.....	nnw.	.....	.....	6–7	.....	10 n	.....	nnw.	18 h'r	18 h'r	high	nnw.	raining.
Schr. Edith R. Seward, Newport News, Va†	30.24	768.1	73	22.8	.....	ene.	.....	.....	2	.....	3	.....	e.	2 h'r	2 h'r	sm'h	.....	fair.
S. E. J. Spicer, Thames River, Eng*	29.91	759.7	63	17.2	.....	nnw.	.....	.....	7	.....	7	.....	nw.	sq 'lls	sq'lls	sm'h	.....	
S. Enoch Train, Bremerhaven, Gert	29.83	757.7	.....	.....	.....	nw.	.....	.....	7	.....	8	.....	nnw.	hv'y	hv'y	.....	.....	heavy rain.
Bk. Essex, Aden, Arabia*†	29.78	756.4	94	34.4	.....	ssw.	.....	.....	6	.....	.....	.....	w.	o	o	.....	.....	fine.
Bk. Franklin, Stettin, Prussia*†	29.80	756.9	.....	.....	.....	sw.	.....	.....	6	.....	.....	.....	.....	.....	.....	.....	.....	hazy.
Bk. Freya, N. 50° 00′, W. 14° 39′	.....	.....	60	15.6	.....	ssw.	.....	.....	3	.....	10	.....	.....	4 h'r	4 h'r	mod.	nw.	foggy.
S. Glendon, N. 27° 00′ W. 45° 35′†	30.19	766.8	89	31.7	.....	se.	.....	.....	2	.....	10	.....	se.	o	o	sm'h	.....	fair.
Bk. Godfrey, N. 11° 08′, W. 27° 50′	30.01	762.2	78.1	25.6	93	s.	.....	.....	4	.....	8	.....	ssw.	sh'rs	sh'rs	mod.	s.	cloudy.
S. Grecian, N. 1° 00′, E. 106° 30′*†	29.90	759.4	83	28.3	.....	sse.	.....	.....	3	.....	3	.....	.....	o	o	sm'h	.....	clear.
Bk. Gronsvaer, N. 4° 50′ W. 13° 50′†	30.02	762.5	78.0	25.6	.....	s.	.....	.....	3–5	.....	3	.....	s.	o	o	3	s.	fair.
Bk. Hattie G. McFarland, Chesapeake Bay,*†	30.30	769.6	72	22.2	.....	ene.	.....	.....	3	.....	1	.....	e.	o	o	.....	.....	clear.
Schr. Henry Denison, N. 16° 14′, W. 82° 00′†	30.07	763.8	.....	.....	.....	se.	.....	.....	7	.....	0	.....	.....	1 h'r	1 h'r	high	e.	fair.
Bk. Horace Scudder, N. 28° 39′, W. 67° 38′†	30.25	768.3	82	27.8	.....	sw.	.....	.....	2	.....	8	.....	w.	o	o	long	w.	
S. Ivy, S. 49° 10′, W. 45° 10′†	30.22	767.6	41	5.0	.....	nw.	.....	.....	6	.....	10	.....	nw.	.....	.....	r'gh	w.	drizzling.
S. Ismir, N. 18° 30′ E. 117° 02′†	29.93	760.2	.....	.....	.....	ne.	.....	.....	1	.....	1	.....	ne.	o	o	sm'h	.....	fine.
Schr. Jennie N. Huddell, Philadelphia, Pa†	30.22	767.6	66	18.9	90	n.	.....	.....	1	.....	2	.....	n.	o	o	.....	.....	clear.
Schr. John L. Thomas, N. 16° 20′, W. 82° 22′*†	30.04	763.0	.....	.....	.....	e.	.....	.....	2	.....	9	.....	ese.	10 h'r	10 h'r	mod.	ene.	threatening
Bg. John Wesley, N. 19° 43′, W. 74° 26′†	29.87	758.7	.....	.....	.....	ne.	.....	.....	2	.....	4	.....	.....	o	o	mod.	e.	lightning.
Bk. Joseph A. Ropes, Tamatave, Madagascar*†	30.22	767.6	76	24.4	64	sse.	.....	.....	4	.....	3	.....	sse.	2 h'r	2 h'r	.....	.....	fair.
Bkt. Josephine, N. 24° 32′, W. 80° 12′†	30.03	762.7	86	30.0	79	e.	.....	.....	4	.....	5	.....	.....	o	o	sm'h	.....	fair.
Bk. Kryolith, N. 38° 50′, W. 71° 37′*†	30.30	769.6	.....	.....	.....	e.	.....	.....	1	.....	0	.....	.....	o	o	sm'h	.....	clear.
S. S. Laurel, Key West, Fla.†	30.06	763.5	86	30.0	.....	e.	.....	.....	1	.....	5	.....	se.	2 h'r	2 h'r	.....	.....	fair.
S. S. Madrid, N. 42° 26′, W. 60° 49′*†	30.20	767.1	57	13.9	.....	ne.	.....	.....	5	.....	0	.....	.....	o	o	mod.	ene.	clear.
Schr. Maggie Abbott, N. 19° 26′, W. 72° 43′†	30.03	762.7	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	o	o	.....	.....	
S. S. Malabar, N. 37° 51′, E. 171° 10′†	30.22	767.6	.....	.....	.....	s.	.....	.....	4	.....	0	.....	.....	o	o	sm'h	.....	clear.
S. Minnie N. Gerow, N. 42° 52′, E. 7° 31′*†	29.90	759.4	.....	.....	.....	w.	.....	.....	6	.....	5	.....	wnw.	.....	.....	r'gh	w.	fine
S. M. P. Grace, N. 10° 12′, W. 117° 05′*	29.91	759.7	80	26.7	.....	w.	.....	.....	3	.....	.....	ne.	s.	rain	rain	short	sse.	squally.
Bk. National Eagle, Antwerp, Belgium†	29.90	759.4	.....	.....	.....	wsw.	.....	.....	4	.....	4	.....	s.	o	o	.....	.....	
S. S. Nebo, N. 37° 30′, W. 69° 18′*†	30.10	764.5	.....	.....	.....	ne.	.....	.....	4	.....	3	.....	nne.	o	o	long	ene.	clear.
Schr. Ocean Traveller, St. Croix, W. I†	30.06	763.5	.....	.....	.....	e.	.....	.....	4	.....	5	.....	e.	.....	.....	mod.	.....	fair.
S. Oracle, N. 28° 04′, W. 42° 10′*	30.16	766.1	81	27.2	95	calm	.....	.....	0	.....	1 ks	.....	.....	.....	.....	.....	.....	clear.
S. Orealla, S. 2° 17′, W. 26° 16′*	29.97	761.2	.....	.....	.....	ese.	.....	.....	4	.....	5	.....	se.	o	o	long	sse.	clear.
S. St. Francis, N. 11° 50′ W. 32° 20′†	29.92	760.0	77	25.0	.....	e.	.....	.....	2	.....	10	.....	e.	1.00	25.4	long	s.	rainy.
Schr. S. B. Hubbard, Gardiner, Met	30.21	767.3	60	15.6	.....	ne.	.....	.....	2	.....	0	.....	.....	o	o	.....	.....	fine.
Bk. Sunbeam, N. 38° 40′ W. 10° 00′†	30.22	767.6	60	15.6	100	nnw.	.....	.....	5	.....	.....	.....	.....	o	o	sm'h	.....	foggy.
S. S. Sunbeam, Swansea, Wales	29.97	761.2	67	19.4	60	wsw.	.....	.....	3	.....	8	.....	wsw.	.....	.....	.....	.....	showery.
S. Sovereign Of The Sea, S. 55° 29′ W. 83° 29′*†	29.52	749.8	38	3.3	90	se.	.....	.....	1	.....	10	.....	.....	o	o	sm'h	n	cloudy
U.S.F.C.S.S. Fish Hawk, Wood's Holl, Mass†	30.41	772.4	64	17.8	89	wsw.	.....	.....	1	.....	1	.....	calm	o	o	.....	.....	clear.
Schr. Victor Ping, Santa Marta, U. S. C.*†	29.47	748.5	.....	.....	.....	ne.	.....	.....	3	.....	3	.....	ne.	.....	.....	.....	.....	fair.
Schr. Viola Reppard, Tybee Roads, Ga†	30.02	762.5	81	27.2	.....	nw.	.....	.....	1	.....	3	.....	nw.	o	o	.....	.....	
Bg. Wauburn, N. 37° 29′, W. 74° 40′*†	30.10	764.5	.....	.....	.....	e.	.....	.....	3	.....	3	.....	ese.	.....	.....	mod.	e.	¼ covered.
Bk. Warden Law, N. 29° 12′, W. 24° 23′*	30.16	766.1	.....	.....	.....	ne.	.....	.....	2	.....	.....	.....	ne.	o	o	sm'h	ne.	fair.
S. Wm. Woodbury, N. 54° 11′, W. 25° 26′*	29.60	751.8	56	13.3	87	se.	.....	.....	7	.....	8	.....	se.	.....	.....	cross	se.	covered.

International Chart I. August 30, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

INTERNATIONAL METEOROLOGICAL OBSERVATIONS

TAKEN SIMULTANEOUSLY ON AUGUST 31, 1882,

7 A. M., Washington Mean Time.

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
Algerian.																			
Nemours			30.12	765.1	80.2	26.8	83	s.			1		2			0	0	fair	Bouvier.
Algiers			30.11	764.7	80.2	26.8	64	ne.			1		0			0	0	clear	Thève.
La Calle			30.10	764.6	87.1	30.6	79	n.			2		2			0	0	fair	Fonfréde.
Tunis			30.09	764.2															Jacques.
Saida			30.15	765.9															Perés.
Tebessa			30.13	765.4	83.5	28.6	21	n.			2		0			0	0	clear	Rigaud.
Geriville					91.8	33.2	10	nw.			3		2			0	0	fair	Lonchamp.
Laghouat			30.16	766.1	94.3	34.6	24	ne.			1		0			0	0	clear	Abraham.
Biskra			30.15	765.8	94.6	34.8	32	n.			1		0			0	0	clear	Malau.
Australian.																			
Melbourne, Victoria	29.65	753.1	29.74	755.4	45.8	7.7	89	nne.	5	2.2			2			0.18	4.6	fine	R. L. J. Ellery.
Austro-Hungarian.																			
Agram	29.49	749.1	30.03	762.7	67.6	19.8	61	ne.			3		3			0.016	0.4		Prof. Ivan Stozir.
Cracow, I. R Observatory	29.16	740.6	29.93	760.1	54.5	12.5	82	sw.	11.2	5.0			10			0.154	3.9		Dr. Wierzbiski.
Eperies	29.02	737.2	29.89	759.1	60.4	15.8	71	calm			0		10 ks		e.	0.322	8.2		Julius Mikolik.
Gratz	28.80	731.5	30.02	762.6	64.2	17.9	71	sw			2		3			0.236	6.0		Andreas Rospini.
Hermannstadt	28.55	725.1	29.94	760.4	66.2	19.0	68	nw.			2		8			0.016	0.4	raining	Prof. A. Gottschling.
Kremsmunster, Obs'y	28.76	730.4	30.09	764.2	57.7	14.3	67	w.			3		6			0.083	2.1	raining	The Staff.
Lemberg	28.88	733.5	29.84	757.9	63.7	17.6	69	sw.			2		8			0.252	6.4		Dr. T. Stanecki.
Pola	29.87	758.6	29.98	761.4	73.8	23.2	64	wnw.			1		4			0	0		I. R. Hydrographic Office.
Szathmar	29.46	748.2	29.91	759.6	66.4	19.1	56	w.			3		6			0	0		Joseph Midlinszay, S. J.
Szegedin	29.75	755.7						calm			0		8			0	0		Karl Stancel.
Trieste	29.91	759.7	30.01	762.3	73.4	23.0	39	ne.			2		0			0	0		Royal Academy.
Vienna	29.33	745.0	30.04	762.9	62.4	16.9	54	w.			5		8			0	0	thunder	I. R. Central Met. Obs'y.
British.																			
Aberdeen	29.90	759.4	30.00	762.0	54.0	12.2	58	nw.	6	2.7			6			0.540	13.7	d. clouds	W. Boswell
Armagh, Observatory	29.62	752.3	29.86	758.4	54.7	12.6	91	sse.	15	6.7			10					raining	S. Call.
Bidston, Liverpool Obs'y			29.94	760.5	58.1	14.5	69	se.	16	7.2			10					overcast	John Hartnup.
Bolton, Sharples	29.42	747.3	29.95	760.7	58.1	14.5	77	ssw.	6	2.7			10					overcast	Thomas Mackereth.
Bradford, Yorkshire	29.57	751.1	29.96	761.0	58.0	14.4	73	nw.			1		5			0.01	0.3	d. clouds	McLandsborough & Preston
Bridgetown, Barbadoes	29.95	760.7	29.98	761.5	84.0	28.9	74	e.			1		3					d. clouds	Corpl. J. Surgenor, A. H. C.
Cardington			29.98	761.5	61.6	16.4	79	sw.			0.4		9					overcast	John McLaren.
Chatham, School M. E.	29.91	759.7	30.04	763.0	63.0	17.2	61	sw.			1		10			blank	blank	gloomy	Lance Cpl. G. A. Pickles.
Falmouth, Observatory	29.69	754.1	29.91	759.7	59.5	15.3	96	ssw.			4		10					rain & fog	The Staff.
Fort Napier, Natal	27.71	703.8	29.93	760.2	53.2	11.8	52	e.			6		10					overcast	Corpl. F. Milner, A. H. C.
Free Town, Sierra Leone	29.74	755.4	29.97	761.2	84.0	28.9	67	sw.			1		3					d. clouds	Sergt. John Robinson.
Gibraltar, Mediterranean	30.01	762.2	30.06	763.5	78.9	26.1	80	e.			1		0					blue sky	Corpl. F. Norris, A. H. C
Glasgow, Observatory	29.74	755.4	29.94	760.5	58.1	14.5	55	ese.			3		9 k					d. clouds	Harry Urquhart, Asst.
Greenwich, Royal Obs'y	29.85	758.2	30.02	762.5	63.0	17.2	63	sw.			1		10					overcast	The Staff.
Guernsey	29.70	754.4	30.00	762.0	59	15.0	87	s.			1		10			blank	blank	overcast	A. Collenette, F. M. S.
Kew, Observatory	30.00	762.0	30.04	763.0	62.4	16.9	66	ssw.	18	8.0			10					threatening	The Staff.
Leicester, Museum	29.73	755.1	29.78	756.4	61.6	16.4	59	s.			1		6					d. clouds	J. C. Smith.
Malta, Mediterranean	29.89	759.2	29.96	761.0	81.2	27.3	89	w.			2		0					blue sky	W. D. Ballau.
Nassau, Bahamas	30.09	764.3	30.14	765.5	86.0	30.0	68	se.			3		5					d. clouds	C. S. Duncombe.
Oscott, St. Mary's College	29.47	748.5	29.99	761.7	56.0	13.3		s.			2		10					overcast	Warren Middleton.
Oxford, Radcliffe Obs'y	29.78	756.4	30.01	762.2	58.0	14.4	76	s.			2		10					overcast	The Staff.
Plymouth	29.86	758.4	29.94	760.5	57.9	14.4	97	sse.			2		10					raining	John Merrifield.
Sandwick Manse, Orkneys			30.00	762.0	54	12.2	70						9					d. clouds	Rev. C. Clouston, L. L.D.
Scutari Cemetery, Turkey	29.72	754.9	29.78	756.4	84.8	29.3	66	ne.			2		5			blank	blank	d. clouds	W. H. Lyne.
Sheffield	29.70	754.4	29.97	761.2	63.9	17.7	65	s.			1		10			0.06	1.5	overcast	W. F. Cooper.
Silloth Rectory	29.91	759.7	29.94	760.5	62.0	16.7	62	e.			3		6			0.085	2.2	d. clouds	Rev. F. Redford, M. A.
Stonyhurst, Observatory			29.97	761.2	59.2	15.1	69	se.	3	1.3			10					d. clouds	I. New.
Stratfield Turgiss					59.0	15.0	84	s.			0-1		10					raining	Rev. C. H. Griffiths, F. M. S
Truro, Royal Institution	29.78	756.4	29.79	756.7	62	16.7	88	sw.			7		10					raining	W. Newcombe.
Valencia, Observatory	29.63	752.0	29.66	753.4	61.9	16.6	94	ssw.	20	8.9			10					drizzling	The Met'g'l Office.
Canadian.																			
Bathurst, N. B.																			Hon. J. Ferguson.
Charlottetown, P. E. Island	30.00	762.0	30.04	763.0	65	18.3	84	s.	4	1.8		0	0			0	0	clear	H. J. Cundall, C. E.
Chatham, N. B*	29.98	761.5	30.03	762.7	63	17.2	90	w.	2	0.9		0	0			0	0	clear	G. A. Blair.
Father Point, Quebec*	29.96	761.0	29.99	761.7	57	13.9	86	sw.	13	5.8		8 k	0	w.		0	0	cloudy	J. McWilliams.
Fort Garry, Manitoba*	29.44	747.8	30.28	769.1	44	6.7	93	w.	2	0.9		0	0			0	0	clear	James Stewart.
Halifax, N. S*	29.98	761.5	30.11	764.8	64	17.8	84	w.	2	0.9		0	0			0	0	hazy	A. Allison.
Kingston, Ontario*	29.76	755.9	30.08	764.0	67	19.4	73	sw.	16	7.2		2 cs	8 ks	sw.	sw.	0	0	threatening	A. P. Knight, M. A.
Montreal, Quebec*	29.88	758.9	30.08	764.0	68	20.0	66	w.	16	7.2		8 ck	2 s	w.		0	0	cloudy	C. H. McLeod, C. E.
Parry Sound, Ontario*	29.36	745.7	30.04	763.0	62	16.7	90	se.	5	2.2			10 n		se.	0	0	cloudy	Rev. R. Mosley.
Port Dover, Ontario	29.39	746.5	30.06	763.5	69	20.6	95	s.	9	4.0			10 ks			0	0	cloudy	H. Morgan.
Port Stanley, Ontario	29.41	747.0	30.04	763.0	68	20.0	90	sw.	2	0.9			10 k		s.	0.02	0.5	cloudy	M. Payne.
Quebec, Quebec*	29.77	756.1	30.08	764.0	65	18.3	90	nw.			1	2 k	2 s	w.	w.	0	0	fair	Capt. Ashe, R. N.
Rockliffe, Ontario*	29.61	752.1	30.05	763.3	60	15.6	96	calm	0	0			8 ks		w.	0	0	fair	W. H. McIntyre.
Saugeen, Ontario*	29.30	744.2	29.99	761.7	63	17.2	93	se.	6	2.7			10 s			0.32	8.1	cloudy	
St. Andrews, N. B	30.05	763.3	30.10	764.5	60	15.6	85	calm	0	0		0	0			0	0	clear	
Sydney, C. B*	29.99	761.7	30.04	763.0	67	19.4	84	s.	7	3.1		0	0			0	0	clear	T. C. Hill, C. E
Toronto, Ontario*	29.70	754.4	30.07	763.8	66	18.9	90	sw.	4	1.8			10 ks		w.	0.02	0.5	cloudy	Magnetic Observatory.
Yarmouth, N. S*	30.08	764.0	30.15	765.8	57	13.9	96	sw.	3	1.3		0	fg.		sw.	0	0	clear	Lt. F. E. Wilmot, R. N
Sub-series.																			
Mount Forest	28.55	725.2	29.91	759.7	64.0	17.8	92	sw.			3		10 n			0	0	cloudy	Wm. Wylie.
St. Johns, Newfoundland	29.89?	759.2?	30.14?	765.5?	60	15.6	88	sw.				0	0			0	0	fair	John Delany.
Cape Colony.																			
Cape St. Francis Lt. House	30.25	768.3	30.27	768.8	57	13.9	93	w.	21.1	9.4		0	6 k			0.150	3.8	stormy	C. Hansen.
Cape Town, C. G. H. Obs'y	30.33	770.4	30.36	771.1	62.5	16.9	62	s.	12	5.4		0	8			0	0		The Staff, for D. Gill.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Barometer. Corrected for instrumental error and for temperature. Mill.	Barometer. Reduced to sea-level. Inch.	Barometer. Reduced to sea-level. Mill.	Temperature of the air. Fah.	Temperature of the air. Cent.	Relative humidity. Per cent	Wind. Direction. From.	Wind. Velocity. Miles p. hr.	Wind. Velocity. Mtrs. p. sec	Wind. Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Clouds. Amount and kind. Lower. 0–10	Clouds. Direction. Upper. From.	Clouds. Direction. Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Rainfall or melted snow in the past 24 hours. Mill.	Weather.	Observers
Chinese (*Sub-series*).																			
Hankow																			N. Titoushkin.
Zi-Ka-Wei, near Shanghai	29.98	761.4	30.00	762.0	72.7	22.6	95	se.	3.8	1.7		ck	3 k	s.	e.	0	0	fair	M. Marc Dechevrens, S.J.
Danish.																			
Copenhagen	29.63	752.6	29.68	753.8	60.4	15.8	81	nw.	18	8			9						Oversergent Fischer.
Fanöe	29.79	756.7	29.81	757.2	59.2	15.1	74	wnw.			6		9						Overloerer Lauridsen
Godthaab, Greenland	29.65	753.2	29.70	754.3	38.7	3.7	90	s.			4		9						Overloerer Lauridsen
Ivigtut	29.78	756.5	29.80	757.0	43.0	6.1		calm			0		5			0	0	foggy	S. Kleinschmidt.
Stykkisholm, Iceland	29.85	758.2	29.89	759.3	48.9	9.4	93	se.			2		10						
Thorshavn	30.00	761.9	30.03	762.8	49.3	9.6	73	se.	9.	4			10					raining	A. O. Thorlacius.
Vestervig	29.67	753.7	29.76	756.0	57.2	14.0	90	calm			0		9					thund'r st'm	Overloerer Bergh.
French.																			Loearer Oesterboi.
Agen, Normal School	29.47	748.6	30.11	764.8	71.6	22	59	ese.			1	ck	0			0	0		M. Labroue, Directo .
Alençon, Normal School	29.57	751.0	30.12	765.0	65.8	18.8	78	s.			1		k	w.	w.	0	0		M. Nicot, Director.
Arras, Engineer School	29.79	756.6	30.04	763.1	63.5	17.5	72	ne.			2		kn		ne.	0.106	2.7		M. Fénéon, Command't.
Avignon, Normal School	29.94	760.5	30.02	762.5	76.3	24.6	51	nw.			3		2			0	0	slightly cl'dy	M. Giraud, Director.
Bar-sur-Seine	29.58	751.4	30.13	765.2	64.2	17.9	51	nw.			1		7			0.122	3.1	very cloudy	M. Saillard, Director.
Beauvais, Normal School	29.84	757.9	30.10	764.5	66.2	19.0	68	ssw.			1		10		sw.	0.102	2.6	covered	M. Frère Eugène Maris.
Besançon, Normal School	29.19	741.3	30.07	763.7	65.5	18.6	67	se.			1		5		n.	0	0	cloudy	M. Gobin, Director.
Bordeaux, Observatory	29.78	756.4	30.04	762.9	69.8	21.0	61	ene.			1		8			0.004	0.1	very cloudy	M. Rayet, Director.
Bourges, Normal School	29.55	750.5	30.10	764.4	67.1	19.5	54	se.							se.	0	0		M. Malet, Director.
Brest, Naval Observatory	29.78	756.4	30.02	762.6	60.8	16.0	85	ssw.			2		10		ssw.	0.012	0.3	raining	M. de Kermaree, Dir.
Caen, Normal School	30.05	763.3	30.13	765.3	50.7	10.4	90	sw.			1		8		sw.	0	0	very cloudy	M. Berson, Director.
Châlons-sur-Marne, N.Sch'l	29.70	754.3	30.01	762.3	67.6	19.8	72	calm			0		2			0.157	4.0	slightly cl'dy	M. Jadot, Director.
Charleville, Normal School	29.67	753.7	30.19	766.7	62.6	17	63	ssw.			1		10			0.260	6.6	covered	M. Grimard, Director.
Clermont-Ferrand Obs'y	28.75	730.3	30.08	763.9	66.9	19.4	54	e.			1	8 c	0			0	0	¾ covered	M. Allnard, Director.
Cluny, Normal School	29.28	743.7	30.11	764.8	68.0	20	50	ne.					8			0	0		M. de Villemontée, Dir.
Commercy, Normal School	28.12	714.2	30.13	765.2	65.5	18.6	58	w.			1		kn	w.	w.	0.532	13.5		Dr. Coulet, Director.
Gap, Normal School	27.52	698.9	29.97	761.2	72.3	22.4	32	n.			1	0	1 s		n.	0	0		M. Jeanginard, Director.
Grésque, du Rhone	28.91	734.2	29.98	761.4	80.2	26.8	27	w.			1		3		sw.	0	0		M. Kina, Director.
Grenoble, Normal School	29.28	743.6	30.03	762.7	65.5	18.6	57	w.			2		kn		e.	0	0		M. Ablard, Director.
Lamballe, Normal School					62.6	17.0	72	w.			2	0	5 k		w.	0	0	cloudy	M. Ollitrault, Director.
Lescar, Normal School	29.43	747.6	29.98	761.5	71.6	22.0	66	w.			1		2			0	0	slightly cl'dy	M. Chauvin, Director.
Lorient, Naval Observatory	29.97	761.1	30.07	763.7	61.9	16.6	81	s.			1		10			0.079	2.0	covered	Lt. T. Carré, Director.
Lyon, St. Genis-Laval	29.06	738.2	30.10	764.4	66.4	19.1	42	ne.			1	5 c	0	wnw.		0	0	½ covered	M. André, Director.
Mans, Normal School	29.79	756.6	30.09	764.2	66.7	19.3	96						8			0	0	very cloudy	M. Piboen, Director.
Marseille, Observatory	29.73	755.1	29.99	761.8	74.8	23.8	32	w.			1		4		w.	0	0		M. Stephan, Director.
Montlouis																			M. Cave, for Dr. Fines.
Montpellier, Normal School	29.79	756.6	29.91	759.7	73.0	22.8	71	nw.			2*		0			0	0	clear	M. Galzin, Director.
Nancy, Normal School	29.28	743.8	30.06	763.4	65.8	18.8	50	wsw.			1		8 k			0.339	8.6	very cloudy	M. Hasse, Director
Nantes, Observatory	29.95	760.8	30.11	764.9	65.5	18.6	68	sw.			0–1		10 kn,n		ssw.	0	0		M. Larocque, Director.
Perpignan, Observatory	29.94	760.4	30.04	763.1	82.0	27.8	40	s.	1.8	0.8			5	nnw.		0	0		Dr. Fines, Director.
Pic-du-Midi, Summit	21.45	544.7			51.8	11.0		sw.			1		5		sw.	0	0	cloudy	Gen'l de Nansouty, Dir.
Privas, Normal School	29.04	737.5	30.08	763.9	68.0	20	55	n.			4		0			0	0	clear	M. Taillen.
Puy de Dôme Obs'y, Summit	25.28	642.0			46.2	7.9	94	se.			2		8			0.028	0.7	¾ covered	M. Allnard, Director.
Rochefort, Naval Obs'y	30.06	763.5	30.09	764.3	67.6	19.8	75	sse.			1		10		s.	0	0	covered	Lt. E. Decante, Director.
Roche-sur-Yon, N. School	29.86	758.5	30.08	763.9	63.7	17.6	76	ssw.			2		10		nw.	0	0	covered	M. Mouillot, Director.
Rodez, Normal School	27.93	709.5	30.02	762.0	65.7	18.7	60	nw.			1		1		nw.	0	0	clear	M. Seger, Director.
Rouen, Normal School	30.07	763.8	30.12	765.0	64.0	17.8	74	w.			1		10	sw.		0.55	14.	covered	M. Brotier.
Saint Maur, Observatory	29.94	760.4	30.10	764.6	63.3	17.4	60	s.			1		10		sw.	0.008	0.2		M. Renou, Director.
Toulouse, Observatory	29.41	747.1	30.14	765.5	76.1	24.5	57	se.			1		5		nw.	0	0	cloudy	M. Baillaud, Director.
Tours	29.91	759.8	30.09	764.3	68.0	20.0	58	sw.			1		10		sw.	0	0	covered	M. de Tastes.
Versailles, Observatory	29.61	752.0	30.10	764.4	63.3	17.4	61	sw.			1					0.094	2.4		Dr. A. Bérigny, Director.
Sub-series.																			
Paris, Montsouris Obs'y	29.82	757.5	30.11	764.9	63.3	17.4	65	s.			1		1c		sw.	0.020	0.5		M. Marié Davy, Director
German.																			
Ansbach	28.64	727.5	30.08	763.9	59.4	15.2	59	w.			2		2	w.		0.232	5.9		Prof. Jnedt.
Bamberg	29.21	742.0	30.07	763.7	60.1	15.6	60	nw.			3	0	4 k		nw.	0.079	2.0		Prof. Dr. Hoh.
Berlin	29.69	754.0	29.86	758.5	57.2	14.0	92	nw.			3		6			0.122	3.1		Prof. Dr. Arndt.
Breslau	29.41	746.9	29.93	760.3	56.1	13.4	80	w.			5		10			0.016	0.4	sprinkling	Royal University Obs'y.
Carlsruhe	29.69	754.0	30.12	765.0	63.3	17.4	62	nw.			1		9	sw.		0.031	0.8		Albert Senz.
Cassel	29.26	743.2	29.97	761.3	63.0	17.2	58	w.			4		8	w.		0.063	1.6		Dr. H. Möhl.
Frankfort-on-the-Main	29.71	754.7	30.08	763.9	63.5	17.5	63	sw.			1		5			0.063	1.6		Physical Society.
Friedrichshafen	28.71	729.2	30.13	765.3	60.1	15.6	60	sw.			2		2	w.		0.217	5.5		Wilhelm, Chief Tel.
Hamburg	29.80	756.9	29.89	759.2	59.5	15.3	63	wnw.			6		5	nw.		0.335	8.5		E. Preller.
Kiel	29.80	757.0	29.82	757.4	60.8	16.0	69	wnw.			6		6			0	0		Prof. Dr. G. Karsten
Leipsic, Astron'l Obs'y	29.56	750.9	29.98	761.5	60.4	15.8	64	w.			5		9	w.		0	0		H. Leppig, Asst.
Magdeburg	29.74	755.5	29.93	760.3	63.5	17.5	59	w.			4	0	4 k,ks		w.	0.157	4.0		Dr. Assmann.
Memel	29.57	751.0	29.61	752.2	61.7	16.5	74	w.			6	0	6 k						Issermann.
Munich	28.32	719.2	30.19	766.7	58.6	14.8	54	nw.			2		4	sw.		0.126	3.2		Dr. C. Lang.
Neufahrwasser	29.67	753.5	29.68	753.9	66.2	19.0	61	nw.			2		7	wnw.		0.146	3.7		A. Lothes.
Neustadt, Palatinate	29.55	750.5	30.09	763.9	59.9	15.5	67	w.			2		4			0	0		Dicknether.
Stuttgart	29.15	740.5	30.03	762.8	63.5	17.5	59	n.			3		5	w.		0.020	0.5		Prof. Dr. Schoder.
Wustrow	29.77	756.1	29.80	756.8	61.9	16.6	72	wnw.			5	0	3 s			0.055	1.4		Profs. Brandes & Reimer
Greek.																			
Athens	29.46	748.3	29.83	757.6	86.7	30.4		sw.			1.0	1 c	0			0	0		Schmidt & Wourlisch
Indian.																			
Kurrachee	29.62	752.5	29.68	753.7	82.3	27.9	78	wsw.	28.0	12.5			8		w.	0	0	gloomy	
Deesa	29.16	740.8	29.63	752.5	90.6	32.6	40	ssw.	10.0	4.5			4	sw.		0	0	d. clouds	
Bombay	29.69	754.2	29.73	755.1	82.7	28.2	77	wnw.	12.0	5.4			8	w.	w.	0.03	0.8	d clouds	
Poona, Yarrowda	27.87	708.0	29.73	755.1	76.2	24.6	69	wnw.	20.0	8.9			10	wnw.	wnw.	0.18	4.6	overcast	
Trichinopoly	29.49	749.0	29.76	750.0	88.0	31.1	51	nw.					10			0	0	overcast	
Bellary	28.22	716.9	29.66	753.9	80.3	26.8	73	sw.	6.3	2.8			8			0	0	overcast	
Belgaum	27.22	691.4	29.79	750.6	68.2	20.1	95	wsw.	13.0	5.8			10		sw.	0.12	3.0	drizzling	
Lahore	28.83	732.2	29.56	750.7	85.0	29.4	76	ne.	4.0	1.8			0			2.06	52.3	blue sky	
Roorkee	28.68	728.4	29.56	750.9	81.2	27.3	82	nw.	1.0	0.4			7			0.18	4.6		
Agra	29.03	737.4	29.58	751.4	89.0	31.7	65	nw.	4.0	1.8			4		n.	0.01	0.3	d. clouds	
Nagpur	28.61	720.6	29.63	752.6	86.2	30.1	70	calm	0	0			5		nw.	0.06	1.5	d. clouds	
Jubbulpore	28.32	719.4	29.68	753.8	77.8	25.4	85	n.	2.8	1.2			10		n.	0.07	1.8	overcast	
Lucknow	29.22	742.3	29.60	751.9	77.7	25.4	91	calm	2.3	1.0			10	ese.		0.32	8.1	overcast	
Allahabad	29.34	745.1	29.65	753.0	80.3	26.8	98	e.	2.0	0.9			10			0.23	5.8	overcast	
Patna	29.45	748.1	29.64	752.8	80.6	27.0	90	calm	1.8	0.8			10			0.90	22.9	overcast	
Hazaribagh	27.66	702.5	29.66	753.3	77.0	25.0	84	w.	6.2	2.8			10		w.	0.38	9.6	thnd'r storm	
Cuttack	29.58	751.4	29.66	753.4	87.1	30.6	68	s.	2.4	1.1			6			0	0	d. clouds	
Calcutta, Alipore	29.64	752.9	29.67	753.5	83.0	28.3	87	ssw.	4.0	1.8			9	s.	s.	0.03	0.8	d. clouds	
Dhubri	29.53	749.9	29.64	752.9	76.9	24.9	93	calm	1.2	0.5			1			1.51	38.4	d. clouds	
Chittagong	29.65	753.0	29.74	755.3	80.9	27.2	87	se.	5.5	2.5			8			0	0	d. clouds	
Sibsagar	29.34	745.2	29.67	753.7	83.2	28.4	86	sw.	2.0	0.9			10	w.	w.	0.07	1.8	overcast	
Jeypore	28.20	716.2	29.61	752.2	86.9	30.5	61	nw.	6.3	2.8			4		nw.	0	0	d. clouds	
Zanzibar, Africa	29.99	761.7			82.7	28.2	55	s.	4.9	2.2			5		sse.	0	0	d. clouds	
Italian.																			
Udine	29.61	752.2	30.01	762.3	71.6	22.0	36	ne.	1.3	0.6			1			1.102	28.0		Prof. Giovanni Clodig.
Milan	29.51	749.6	30.01	762.2	73.8	23.2	36	se.	3.8	1.7			1			0	0		Prof. Schiaparelli.
Padua	29.90	759.5	30.01	762.2	72.7	22.6	37	ne.	3.8	1.7			0			0.256	6.5		Prof. Dott. Lorenzoni.
Moncalieri	29.11	739.4	29.98	761.6	73.4	23.0	34	e.	2.5	1.1			3			0	0		Prof. P. F. Denza.

STATIONS.	Barometer. Corrected for instrumental error and for temperature. Inch.	Mill.	Barometer. Reduced to sea-level. Inch.	Mill.	Temperature of the air. Fah.	Cent.	Relative humidity Per cent.	Wind. Direction. From.	Velocity. Miles p. hr.	Mtrs. p. sec	Force. 0–10	Clouds. Amount and kind. Upper. 0–10	Lower. 0–10	Direction. Upper. From.	Lower. From.	Rainfall or melted snow in the past 24 hours. Inch.	Mill.	Weather.	Observers.
ITALIAN.—Continued.																			
Genoa	29.80	756.8	29.98	761.5	75.2	24.0	53	sw.	1.8	0.8			0			0	0		Prof. G. M. Garibaldi
Mondovi	28.14	714.7	29.97	761.3	69.3	20.7	39	se.			4		0			0	0		Prof. D. C Bruno
Pesaro	29.94	760.4	29.98	761.6	72.7	22.6	68	n.	9.4	4.2			3			0	0		Prof. Luigi Guidi.
Florence	29.71	754.7	29.96	760.9	76.6	24.8	50	n.			2		3			0	0		Prof. Costantino Pittier
Leghorn	29.83	757.7	29.91	759.8	75.7	24.3	55	nw.	9.4	4.2			3			0	0		Prof. P. Monte.
Rome	29.78	756.4	29.95	760.7	81.7	27.6	30	n.	2.5	1.1			1			0	0		Prof. P. Tachini.
Lecce	29.65	753.2	29.89	759.3	80.6	27.0	42	nne.	9.4	4.2			3			0	0		Prof. C. de Giorgi.
Cosenza	29.07	738.4	29.92	760.0	82.8	28.2	72	wsw.	3.1	1.4			0			0	0		Prof. D. Conti.
Cagliari	29.78	756.5	29.97	761.3	78.8	26.0	34	nw.			4		0			0	0		Prof. A. Pacinotti.
Palermo	29.71	754.7	29.95	760.8	80.6	27.0	48	nw.	13.0	5.8			1			0	0		Prof. G. Ciacciatore.
Syracuse	29.87	758.8	29.92	759.9	78.8	26.0	61	nne.	2.5	1.1			0			0	0		Prof. Vincenzo Guiliano
Sub-series.																			
Naples, S. R	29.42	747.2	29.93	760.1	78.1	25.6	53	sw.	1.3	0.6			0			0	0		Prof. T. Brioschi.
Stelvio	22.23	564.7			42.8	6.0	46	s.			2		2			0	0	misty	Prof. P. F. Denza.
Valdobbia	22.28	566.0			46.4	8.0	57	ne.			2		0			0	0	misty	Prof. P. F. Denza.
JAPANESE.																			
Awomori	29.92	759.9	29.96	761.0	68.0	20.0	85	nne.	2.6	1.2			10 n			1.800	45.7	light rain	K. Ogawa.
Hakodate	29.97	761.2	29.98	761.5	67.0	19.4	94	e.	6.0	2.7			10		e.	0	0	overcast	S. Takehayashi.
Hiroshima, I. M. Obs'y																			M. Fojima.
Kioto	29.78	756.4	29.95	760.7	77.5	25.3	87	s.	2.2	1.0		1 ck	0			0	0	clear	
Nagasaki, I. M. Obs'y	29.80	756.9	30.00	761.9	75.1	23.9	90	s.	0.6	0.3		0	0			0.120	3.0	clear	
Nemuro	30.20	767.1	30.27	768.8	66.0	18.9	93	sse.	3.0	1.3		9	0			0	0	overcast	
Niigata	29.88	758.9	29.91	759.7	77.0	25.0	86	se.	6.6	2.9			10ck;s		w.	0.025	0.6	covered	M. Morita.
Nobiru	29.95	760.6	29.96	761.0	71.1	21.7	92	ene.	2.6	1.2			10 ks;s			0	0	covered	H. Midzushina.
Osaka	29.91	759.7	29.92	759.9	79.5	26.4	82	wnw.	3.4	1.5		2 c;cs	0			0	0	clear	
Sapporo					67.2	19.6	89	se.	2.4	1.1			10			0	0	covered	
Tokei Obs'y, Yeddo	29.89	759.1	29.96	761.0	76.0	24.4	92	s.	4.4	2.0		3ks;ck	2 s;ks	s.	s.	0	0	fair	The Staff.
Wakayama	29.91	759.7	29.96	761.0	79.4	26.3	79	calm	0	0		0	0			0	0	clear	Y. Kuwamuea.
MAURITIUS.																			
Mauritius Observatory	29.99	761.7	30.18	766.6	71.8	22.1	57	ese.	22.5	10.1			8 ks;k		ese.	0.02	0.6	cloudy	Oliver & Figon.
MEXICAN.																			
Guanajuato	23.68	601.6	29.90	759.6	57.9	14.4	81	ene.	1.3	0.7		0	1 k		s.	0	0	clear	Prof. Vicente Fernandez.
Leon.†	24.33	618.0	30.01	762.2	57.9	14.1	91	nne.			1	5 c	0	s.		0	0	½ cloudy	Prof. M. Leal.
Mazatlan	29.65	753.2	29.91	759.7	79.8	26.6	78	s.	5.3	2.3		0	8 n		se.	inap.	inap.	cloudy	F. Quijano, C. E.
Mexico, Central Obs'y	23.12	587.2	30.14	765.5	54.1	12.3	82	w.	0.2	0.1		2 c	7 k		e.	0.055	1.4	very cloudy	The Staff.
Morelia	24.19	614.3	30.23	767.9	61.2	16.2	58	s.			2	2	4	s.	s.	0.910	23.1	½ cloudy	M. Tena, M. D.
Orizaba																			Prof. M. M. Cházaro.
Pabellon, Aguascalientes	23.95	608.4	29.93	760.1	60.8	16.0	91	nw.			1	1	0			0.020	0.5	fine	M. V. de Leon, M. E
Puebla, Catholic Institute	23.42	594.8	30.54	775.7	55.4	13.0	86	calm			0	0	9		s.	0.004	0.1	very cloudy	Prof. P. Spina.
San Luis Potosi																			G. Barroeta, M. D
Zacatecas	22.59	573.9	30.20	767.0	53.6†	12.5†	84	ne.	9.3	4.1		4 cs	1 k		n.	inap.	inap.	½ cloudy	J. A. Bonilla, M. E.
NETHERLANDS.																			
Flushing	30.08	764.1	30.08	764.1	65.1	18.4		w.			2					0.181	4.6		
Groningen	29.94	760.4	29.99	761.8	59.0	15.0		nw.			4					0.059	1.5		
Helder	30.02	762.5	30.02	762.5	58.3	14.6		wnw.			4					0	0		
Hellevoetsluis	30.07	763.7	30.07	763.7	64.2	17.9	65	nw.			1					c	0		
Utrecht	30.02	762.4	30.00	763.6	64.2	17.9	65	w.			2		8			0.024	0.6	very cloudy	H. van der Brink.
NORWEGIAN.																			
Bergen	29.65	753.1	29.71	754.7	61.2	16.2	43	nnw.	13	6			0			0	0		
Brono	29.70	755.8	29.80	756.8	50.2	10.1	51	nnw.	18	8			7			0.055	1.4		
Christiania	29.58	751.2	29.72	754.8	59.4	15.2	44	ne.	7	3			0			0	0		
Gjæsvær	29.63	752.5	29.65	753.1	44.4	6.9		w.			7		4						
Lodingen	29.73	755.1	29.78	756.3	45.1	7.3	64	nw.			1		9			0.043	1.1	raining	
PORTUGUESE.																			
Angra, Azores					75.2	24.0	88	wsw.	8.1	3.6			5			0	0		Dr. J. A. Sampaio.
Campo Major	29.03	737.4	29.96	760.9	97.3	36.3	11	sse.	1.8	0.8			0			0	0		Dr. A. M. R. dos Santos.
Funchal, Maderia	30.12	765.0	30.20	767.1	74.5	23.6	59	sw.	6.9	3.1			7			0	0		Capt. D. A. de Cunha.
Lisbon, Observatory	29.69	754.2	30.04	763.0	81.9	27.7	35	s.	4.9	2.2			0			0	0		The Staff.
Ponta Delgada, Azores	30.13	765.2	30.20	767.0	75.6	24.2	85	sw.	18.1	8.1			3			0	0		
Saint Paul de Loando	29.70	759.0	29.97	761.2	71.6	22.0	85	wnw.			1		8			0	0		
Serra da Estrella	25.47	646.8	29.95	760.8	75.4	24.1	15	nnw.	11.2	5.0			0			0	0		
RUSSIAN.																			
Akmolinski	29.04	737.5	30.08	764.1	68.2	20.1	30	w.	11	5			0			0	0		Major K. Lasarew.
Archangel	29.60	751.7	29.61	752.2	60.6	15.9	94	sse.	9	4			10			0.394	10.0	heavy cl'ds.	Capt. Sselliwerstow.
Astrakhan	30.08	763.9	29.99	761.8	78.8	26.0	45	se.	13	6		ck	9 s			0	0		Capt. Wisganow.
Barnaul	29.65	753.2	30.15	765.9	51.8	11.0	70	sw.	2	1			10			0.008	0.2		Meteorological Obs'y.
Dorpat	29.19	741.3	29.42	747.3	55.8	13.2	96	s.	11	5			10 n			0.118	3.0	light rain	Observatory.
Ekaterinburg	29.05	737.8	29.97	761.2	72.9	22.7	38	nw.	16	7		8 c;ck	0			0	0	light clouds	Meteorological Obs'y.
Irkutsk																			
Kasan	29.68	753.9	29.93	760.3	80.2	26.8	40	s.	2	1		0	4			0	0		Observatory.
Kertch	29.69	754.1	29.71	754.6	82.2	27.9	78	n.	4	2		5 cs	0			0	0		Lagorio & Sastyres.
Kieff	29.19	741.5	29.82	757.3	59.9	15.5	91	sse.	2	1			9k;ks;n						Observatory.
Lugan	29.51	749.0	29.70	754.4	90.7	32.6	42	s.	2	1			6			0	0		Meteorological Obs'y.
Moscow	29.30	744.1	29.74	755.4	73.9	23.3	39	s.	16	7		0	4 ks						Meteorological Obs'y.
Nikolaiev	29.91	759.8	29.98	761.6	84.2	29.0	40	calm	0	0		0	0			0	0		Capt. Kurdakow.
Nikolaievsk, on the Amoor																			Lieut. Iwanow.
Pekin, China	29.84	757.9	29.98	761.5	73.0	22.8	72	calm	0	0		0	1 ks			0	0		Physical Observatory.
St. Petersburg	29.48	748.8	29.50	749.2	63.7	17.6	63	s.	20	9		0	7 ku			0.197	5.0		Central Physical Obs'y.
Semipalatinsk	29.62	752.3	30.28	769.1	54.3	12.4	79	nw.	4	2			9			0.098	2.5		Major Lasarew
Tashkend, Laboratory	28.37	720.5	29.87	758.8	73.0	23.1	39	calm	0	0			0			0	0		Teich, A. M.
Tiflis	28.51	724.2	29.83	757.7	93.7	34.3	23	s.	9	4			0			0	0		Physical Observatory.
Vladivostock	29.91	759.6	29.97	761.3	63.7	17.0	91	calm	0	0			9 k						
Warsaw	29.36	745.8	29.78	756.3	62.1	16.7	61	w.	16	7		0	7 k						Astronomical Obs'y.
Wilna	29.27	743.5	29.68	753.9	59.7	15.4	73	sw.	9	4			10			0	0		Berg, Assistant.
Yeniseisk	29.89	759.3	30.18	766.6	50.7	10.4	80	w.	2	1			7			0	0		M. O. Marks.
SCOTTISH.																			
Monach Lt			29.89	759.2	56	13.3	93	se.			6	5	3	se.		0	0	cloudy	J. Youngclause.
North Unst			29.92	760.0				nw.			6		10						Robt. Burnet.
SPANISH.																			
Barcelona, Met. Obs'y	29.97	761.2	30.07	763.8	75.2	24.0	69	s.	1.3	0.6		0	7			0	0	cloudy	Antonio Rave, Director.
Bilbao, Met. Obs'y	29.97	761.1	30.02	762.5	79.2	26.2	52	nw.	2.5	1.1		3	4	nw.		0	0	cloudy	Prof. Manuel de Naveran.
Burgos, Met. Obs'y	27.15	689.5	29.95	760.6	82.6	28.1	33	sw.	4.7	2.1		0	2			0	0	light clouds	Domingo Martin.
Madrid, Royal Obs'y	27.86	707.6	29.94	760.4	91.4	33.0	24	sw.	9.4	4.2		0	1			0	0	almost clear	The Staff.
Murcia, Met. Obs'y	29.91	759.7	30.08	764.1	91.4	33.0	59	e.	2.7	1.2		0	0			0	0	clear	Olayo Diaz, Director
Oviedo	29.24	742.6	30.11	764.8	63.5	17.5	85	nw.	2.7	1.2		0	6 s			0	0	cloudy	Prof. G. L. Frades.
Santiago, Met. Obs'y	29.15	740.5	30.01	762.2	76.3	24.6	56	calm	0	0			9			0	0	almost cov.	R. Gil Villanueva, Dir.
Sub-series.																			
Havana, Cuba, W. I	29.99	761.8	30.06	763.5	76.0	24.4	87	se.	1.8	0.8		3c;cs;ck	0	sw.		0.61	15.4	clear	Benito Vines, S. J.
Manilla, Philippine Islands	29.81	757.2	29.87	758.7	77.3	25.2	90	e.	0.7	0.3			10 n		e.	0.512	13.0	cloudy	P. F. Faura, S. J.
San Fernando, Naval Obs'y	29.99	761.6	30.08	764.0	76.5	24.7	69	s.	16.8	7.5		0	0			0	0		Capt. C. Pujazon R. N.
San Juan de Porto Rico, W. I	29.88	758.9	29.97	761.2	83.1	28.4	83	e.	11.6	5.2		2 k	3 k	e.	e.	0	0	clear	Manuel Maese.
Tuguegarao, Philippine Id's	29.78	756.4	29.91	759.7	77.0	25.0	90	n.	1.6	0.7			10 kn			0.26	6.6	covered	José L. Yrastorza.
SWEDISH																			
Haparanda	29.46	748.2	29.50	749.2	45.7	7.6	94	n.			4		10			0	0		
Umea	29.48	748.9	29.54	750.2	54.7	12.6	66	nne.			4		9			0	0		

STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		Weather.	Observers.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.		
Swedish—Continued.																			
Hernosand	29.50	749.3	29.55	750.6	57.2	14.0	45	nw.			7		3			0	0		
Stockholm	29.39	746.6	29.57	751.1	57.7	14.3	54	n.			6		5			1.248	31.7		
Wisby	29.47	748.6	29.53	750.1	58.3	14.6	72	nw.			7		10			0.362	9.2		
Sub-series.																			
Upsala	29.47	748.6	29.56	750.8	58.5	14.7	55	nnw.	14.5	6.5			6		n.	blank	blank		S. G. Fineman.
Swiss.																			
Geneva	28.71	729.1	30.10	764.6	63.1	17.3	51	n.			2					0	0	vapory	The Observatory.
Turkish.																			
Constantinople			29.86	758.4	78.4	25.8	76	n.	11	5.0			10		n.	0	0		The Observatory.
Valona			30.06	763.4	81.3	27.4		calm			0		0			0	0	clear	A. Bertrand.
Sub-series.																			
Beirut, Lee Obs'y, Syria			29.82	757.5	88.9	31.6	55	wsw.			2	0	2 k		sw.	0	0		Prof. C. V. A. van Dyck
United States.																			
Albany, New York	30.12	765.0	30.20	767.1	65	18.3	68	s.	6	2.7		7 cs	0			0	0	fair	J. O. Barnes.
Alpena, Michigan	29.32	744.7	29.96	761.0	65	18.3	100	e.	4	1.8			10 n			0.31	7.9	light rain	Jas. J. Fitzgerald.
Apache, Fort, Arizona	25.13	638.3	29.85	758.2	51	10.6	74	ne.	1	0.4		0	0			0.22	5.6	clear	W. O. Barnes.
Assinnaboine, Ft., Montana	27.47	697.7	30.22	767.6	48	8.9	66	s.	1	0.4		0	0			0	0	clear	B. O. Lenoir.
Atlanta, Georgia	28.96	735.6	30.11	764.8	64.5	18.1	100	e.	7	3.1			10 s			0.05	1.3	cloudy	H. Hall.
Atlantic City, New Jersey	30.17	766.3	30.18	766.6	70	21.1	87	se.	6	2.7		5 c	0			0	0	fair	Jas. M. Watson.
Augusta, Georgia	29.97	761.2	30.16	766.1	71	21.7	90	ne.	3	1.3			10 s		ne.	0	0	cloudy	John Healy.
Baltimore, Maryland	30.14	765.5	30.19	766.8	66	18.9	90	e.	6	2.7		4 ck	6ks;fg	w.	s.	0	0	cloudy	Robert Seyboth.
Barnegat, New Jersey	30.18	766.6	30.20	767.1	69.0	20.6	90	s.	4	1.8		7 c	0	s.		0	0	fair	G. A. Hill.
Behring Island, Behring Sea	29.57	751.1	29.59	751.6	54.2	12.3		sw.	7	3.1			fg.			0.15	3.8	dense fog	A. Pritchard.
Bennett, Fort, Dakota	28.75	730.2	30.29	769.4	45	7.2	93	nw.	2	0.9		2 k	3 s			0.12	3.0	fair	S. Wheaton.
Benton, Fort, Montana	27.50	698.5	30.29	769.4	46	7.8	71	calm	0	0		0	0			0	0	clear	Dr. L. Steineger.
Bismarck, Dakota	28.53	724.6	30.28	769.1	43	6.1	83	calm	0	0		0	0			0	0	clear	Cyrus Cramer.
Block Island, Rhode Island	30.19	766.8	30.22	767.6	65	18.3	84	sw.	5	2.2		3 c;cs	0			0	0	clear	J. T. Elker.
Boise City, Idaho	27.40	695.9	30.15	765.8	60	15.6	62	n.	2	0.9		0	0			0	0	clear	B. E. Light.
Boston, Massachusetts	30.02	762.5	30.17	766.3	66.0	18.9	59	sw.	4	1.8		3 cs	hz.	ne.		0	0	clear	O. B. Cole.
Brownsville, Texas	29.91	759.7	29.95	760.7	79.2	26.2	88	s.	2	0.9		0	2 s			0	0	clear	M. McCarty.
Buffalo, New York	29.36	745.7	30.09	764.3	67.6	19.8	67	s.	11	4.9			10 s		s.	0	0	cloudy	Clarence Weaver.
Buford, Fort, Dakota	28.38	720.8	30.32	770.1	38	3.3	65	calm	0	0		0	0			0	0	clear	A. H. Bell.
Burlington, Vermont	29.83	757.7	30.12	765.0	67.0	19.4	59	s.	7	3.1		9 cs	0	w.		0	0	cloudy	G. C. Schaeffer.
Cairo, Illinois	29.67	753.7	30.06	763.5	70.7	21.5	92	calm	0	0			10 s		n.	0	0	cloudy	W. H. Ray.
Campo, California	27.36	694.9	29.86	758.4	53.2	11.8	74	s.	3	1.3		0	0			0	0	clear	W. H. Clendenon
Cape Henry, Virginia	30.10	764.5	30.12	765.0	74	23.3	90	se.	15	6.7			10 s		se.	0.02	0.5	cloudy	A. K. Alderson.
Cape May, New Jersey	30.14	765.5	30.17	766.3	70.8	21.6	84	se.	13	5.8		5 c	2 s	e.	se.	0	0	fair	W. E. Smith.
Cape Mendocino, California	29.40	746.7			50	10.0	100	n.	16	7.2			fg.			0	0	dense fog	J. R. Williams.
Cedar Keys, Florida	30.08	764.0	30.10	764.5	79	26.1	88	ne.	1	0.4		0	1 ks			0.66	16.8	clear	F. W. Mixer.
Champaign, Illinois	29.19	741.4	29.98	761.5	66.0	18.9	90	nw.	6	2.7			fg			0.93	23.6	dense fog	L. A. Welsh.
Charleston, S. Carolina	30.06	763.5	30.12	765.0	73	22.8	90	ne.	7	3.1		0	8 s		ne.	0.28	7.1	cloudy	J. R. Smith.
Charlotte, N. Carolina	29.27	743.4	30.10	764.5	65.0	18.3	93	ne.	1	0.4			10 s		e.	0.86	21.8	cloudy	D. O'Donoghue.
Chattanooga, Tennessee	29.30	744.2	30.11	764.8	67.5	19.7	95	s.	3	1.3			10n;fog		s.	inap.	inap.	light rain	B. L. Goulding.
Cheyenne, Wyoming	24.34	618.2	30.04	763.0	43.2	6.2	71	nw.	1	0.4			10 s			0	0	cloudy	E. McGovern.
Chicago, Illinois	29.24	742.7	29.94	760.5	69.4	20.8	92	sw.	2	0.9			fg.			0.35	8.9	dense fog	J. Mitchell.
Chincoteague, Virginia	30.12	765.0	30.14	765.5	73	22.8	90	se.	14	6.3			9 s		s.	0	0	cloudy	C. F. Dickens.
Cincinnati, Ohio	29.39	746.5	30.03	762.7	70.5	21.4	80	s.	4	1.8			10 s		s.	0	0	cloudy	J. F. Harrold.
Cleveland, Ohio	29.33	745.0	30.05	763.3	65.8	18.8	84	s.	10	4.5		10 k	0	sw.		0.01	0.3	cloudy	J. B. Newlin.
Coleman City, Texas	28.29	718.6	30.03	762.7	63	17.2	84	ne.	10	4.5			10 s			0.70	17.8	cloudy	L. Dorman.
Columbus, Ohio	29.22	742.2	30.05	763.3	64	17.8	90	se.	3	1.3		6 k	3 s	sw.		0.09	2.3	cloudy	D. Cuthbertson.
Concho, Texas	28.16	715.3	30.02	762.5	63	17.2	90	ne.	12	5.4			10 s			0	0	cloudy	W. W. McConihe.
Custer, Fort, Montana	27.17	690.1	30.23	767.8	43	6.1	76	s.	4	1.8		0	0			0	0	clear	W. B. Lamar.
Davenport, Iowa	29.40	746.7	30.03	762.7	61	16.1	87	n.	8	3.6			10 s		n.	0.06	1.5	cloudy	R. R. Martin.
Davis, Fort, Texas	25.25	641.3	29.90	759.4	49	9.4	100	n.	4	1.8			10 n		n.	0.57	14.5	light rain	J. Williams.
Dayton, Washington T'y	28.36	720.3	30.07	763.8	55	12.8	53	ne.	4	1.8		0	0			0	0	clear	H. Clifford.
Deadwood, Dakota	25.70	652.8	30.13	765.3	48	8.9	74	s.	3	1.3		0	0			0.03	0.8	clear	G. W. Scott.
Decatur, Texas					64	17.8	63	n.	6	2.7		0	3 s		n.	0	0	clear	D. J. Carr.
Delaware Breakwater, Del	30.16	766.1	30.18	766.6	71	21.7	90	s.	12	5.4		1 c	2 ks	s.		0	0	clear	T. S. Townsend.
Denison, Texas	29.28	743.7	30.06	763.5	63.3	17.4	90	n.	4	1.8			10 s			0	0	cloudy	J. McGlone.
Denver, Colorado	25.07	630.8	30.09	764.3	48.0	8.9	93	sw.	2	0.9			10 n			0.11	2.8	light rain	F. M. Neal.
Des Moines, Iowa	29.26	743.2	30.14	765.5	55	12.8	80	n.	6	2.7		10 cs	0	w.		0.05	1.3	cloudy	F. W. Conrad.
Detroit, Michigan	29.32	744.7	30.00	762.0	69.3	20.7	84	s.	4	1.8			10 s		sw.	0.06	1.5	cloudy	C. F. R. Wappenhans.
Dodge City, Kansas	27.63	701.8	30.11	764.8	56	13.3	74	n.	11	4.9			10 s			0	0	cloudy	W. M. Mattingly.
Dubuque, Iowa	29.36	745.7	30.05	763.3	59.5	15.3	87	nw.	5	2.2			10 s			0	0	cloudy	J. Harvey Smith.
Duluth, Minnesota	29.46	748.3	30.18	766.6	59	15.0	65	nw.	17	7.6		0	6 k		nw.	0	0	fair	N. B. Conger.
Eagle Pass, Texas	29.20	741.7	29.99	761.7	74.1	23.4	90	se.	5	2.2		0	0			inap.	inap.	clear	F. Belford.
Eagle Rock, Idaho	25.53	648.5	30.08	764.0	40	4.4	54	calm	0	0		0	0			0	0	clear	J. M. Clifford.
Eastport, Maine	30.04	763.0	30.10	764.5	63.0	17.2	73	sw.	4	1.8		0	sk.		sw.	0	0	clear	D. C. Murphy.
Elliott, Fort, Texas	27.40	695.9	30.04	763.0	53	11.7	80	nw.	4	1.8			10 s		nw.	0.22	5.6	cloudy	W. J. Cundall.
El Paso, Texas	26.38	670.0	29.98	761.5	54	12.2	93	e.	10	4.5			10 n		e.	0.92	23.4	light rain	J. F. Marshall.
Erie, Pennsylvania	29.35	745.5	30.06	763.5	67	19.4	84	s.	7	3.1			10 s			0	0	cloudy	Peter Wood.
Escanaba, Michigan	29.38	746.2	30.02	762.5	59.0	15.0	93	nw.	19	8.5			10 n		nw.	0.46	11.7	light rain	George Heathcote.
Fredericksburg, Texas	28.20	716.3	29.90	759.4	74	23.3	76	ne.	3	1.3		4 cs	0			0	0	fair	Frank Halwegler.
Galveston, Texas	29.95	760.7	30.00	762.0	80	26.7	79	n.	2	0.9		0	hz.			inap.	inap.	clear	E. O'C. MacInerney.
Grand Haven, Michigan	29.29	744.0	29.94	760.5	69.5	20.8	90	se.	6	2.7			10 n		se.	inap	inap.	light rain	W. A. Reid.
Grant, Fort, Arizona	25.32	643.1	29.89	759.2	55.9	13.3	77	e	4	1.8		0	0			0.11	2.8	clear	Robert O. Lord.
Hatteras, North Carolina	30.10	764.5	30.12	765.0	75	23.9	97	se.	22	9.8		3 k	7 k	ne.	s.	0.35	8.9	cloudy	R. M. Crawford.
Helena, Montana	26.10	662.9	30.19	766.8	60	15.6	46	calm	0	0		0	0			0	0	clear	N. C. Smith.
Henrietta, Texas	29.19	741.4	30.19	766.8	63.0	17.2	84	n.	8	3.6			10 s			0	0	cloudy	J. W. Byram.
Huron, Dakota	28.91	734.3	30.24	768.1	43.3	6.3	86	nw.	6	2.7		0	1 s			0	0	clear	S. W. Glenn.
Indianapolis, Indiana	29.22	742.2	29.99	761.7	70	21.1	90	s.	5	2.2			10 s		s.	0.21	5.3	cloudy	O. Schutze
Indianola, Texas	29.96	761.0	29.99	761.7	77.6	25.3	90	n.	10	4.5		5 ck	3 ks	nw.	e.	0.44	11.2	cloudy	I. A. Reed.
Jacksboro, Texas	28.93	734.8	30.05	763.3	62	16.7	87	n.	4	1.8			10 ks		n.	0	0	cloudy	J. P. Sherry.
Jacksonville, Florida	30.07	763.8	30.11	764.8	79	26.1	88	calm	0	0		2 cs	0			0.91	23.1	clear	J. W. Smith.
Keogh, Fort, Montana	27.83	706.9	30.26	768.6	39	3.9	73	calm	0	0		0	0			inap.	inap.	clear	A. Schneider.
Keokuk, Iowa	29.41	747.0	30.04	763.0	61.5	16.4	84	nw.	3	1.3			10 s		nw.	0	0	cloudy	F. Z. Gosewisch.
Key West, Florida	30.02	762.5	30.04	763.0	83.0	28.3	74	se.	2	0.9		2 c	0			0.45	11.4	clear	R. H. Paxton.
Kittyhawk, North Carolina	30.12	765.0	30.14	765.5	75	23.9	94	se.	22	9.8			10 s		se.	0.06	1.5	cloudy	E. A. Beals.
Knoxville, Tennessee	29.10	739.1	30.11	764.8	65	18.3	93	ne.	3	1.3			10 s			0.05	1.3	cloudy	J. A. Cody.
La Crosse, Wisconsin	29.31	744 5	30.06	763.5	60	15.6	81	n.	8	3.6			10 s		n.	0.16	4.1	cloudy	S. C. Emery.
La Mesilla, New Mexico																			N. D. Lane.
Leavenworth, Kansas	29.28	743.7	30.14	765.5	61	16.1	84	n.	5	2.2			10 s		n.	0.05	1.3	cloudy	A. W. Browne.
Lewiston, Idaho	29.31	744.5	30.12	765.0	61.5	16.4	45	calm	0	0		hz.	hz.			0	0	dense haze	W. Bell.
Little Rock, Arkansas	29.73	755.1	30.04	763.0	70	21.1	94	nw.	3	1.3		0	0			0	0	clear	W. U. Simons.
Los Angeles, California	29.52	749.8	29.91	759.7	58	14.4	80	w.	2	0.9		0	0			0	0	clear	Egbert van Dyke.
Louisville, Kentucky	29.45	748.0	30.00	762.0	71	21.7	90	se.	4	1.8			10 s			0.10	2.5	cloudy	H. C. Smyth.
Lynchburg, Virginia	29.41	747.0	30.08	764.0	68	20.0	90	ne.	1	0.4			10 n		ne.	0.48	12.2	light rain	Lewis Duane.
Mackinaw City, Michigan	29.36	745 7	30.00	762.0	63.5	17.5	97	ne.	12	5.4			10 n		ne.	0.37	9.4	light rain	F. R. Day.
Macon, Fort, North Carolina	30.10	764.5	30.12	765.0	77	25.0	97	se.	5	2.2		2 c	6 ks		se.	1.16	29.5	cloudy	F. P. Chaffee.
Madison, Wisconsin	29.03	737.3	30.01	762.2	58	14.4	93	n.	12	5.4			10 s		n.	1.10	27.9	cloudy	C. A. Shaw.
Maginnis, Fort, Montana	25.91	658.1			42	5.6	100	nw.	7	3.1		0	0			0	0	clear	H. W. Dodge.
McKavett, Fort, Texas																			J. E. Thatcher.
Marquette, Michigan	29.40	746.7	30.10	764.5	58	14.4	93	n.	9	4.0			10 n		n.	0.83	21.1	light rain	J. Gilligan.
Memphis, Tennessee	29.69	754.1	30.02	762.5	72	22.2	90	calm	0	0		0	0			0	0	clear	D. T. Flannery.
Milwaukee, Wisconsin	29.23	742.4	29.96	761.0	62	16.7	93	n.	15	6.7			10s;fg		n.	0.32	8.1	cloudy	W. Line.

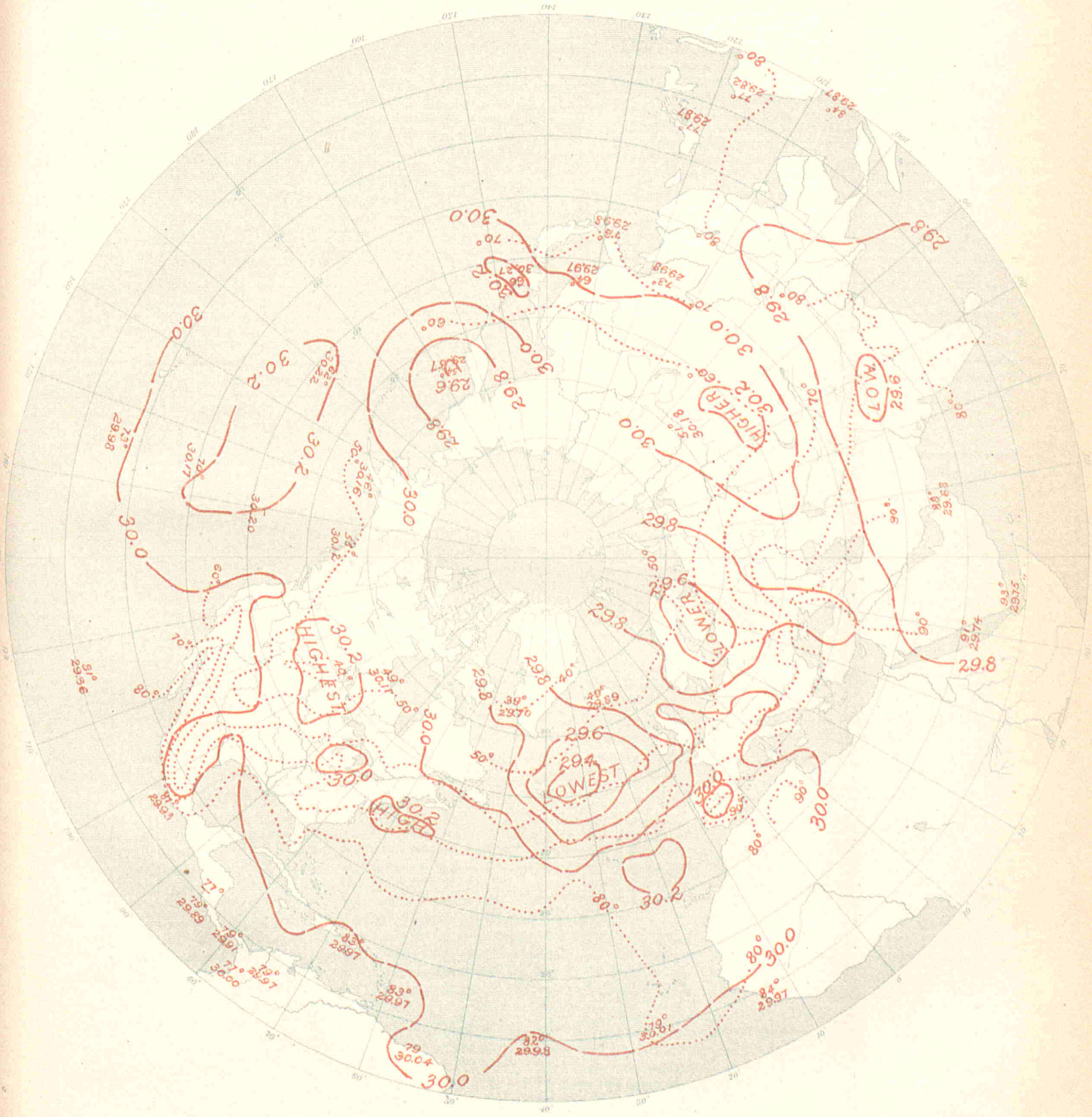
STATIONS.	Barometer. Corrected for instrumental error and for temperature.		Barometer. Reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind. Direction.	Wind. Velocity.		Wind. Force.	Clouds. Amount and kind. Upper.	Clouds. Amount and kind. Lower.	Clouds. Direction. Upper.	Clouds. Direction. Lower.	Rainfall or melted snow in the past 24 hours.		WEATHER.	OBSERVERS.
	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0-10	0-10	0-10	From.	From.	Inch.	Mill.		
UNITED STATES.—Cont'd.																			
Missoula, Fort, Montana	26.99	685.5	30.21	767.3	49	9.4	66	sw.	1	0.4		0	0			0	0	clear	J. H. Jones.
Mobile, Alabama	30.03	762.7	30.07	763.8	75.5	24.2	85	sw.	1	0.4		1 c	0	w.		0.01	0.3	clear	C. A. Read.
Montgomery, Alabama	29.85	758.2	30.08	764.0	72.3	22.4	96	se.	2	0.9			fg.			0.08	2.0	dense fog	J. B. McLaughlin.
Moorhead, Minnesota	29.31	744.5	30.28	769.1	40	4.4	89	n.	4	1.8		0	0			0	0	clear	H. Bessant.
Morgantown, W. Virginia	29.12	739.6	30.12	765.0	66.5	19.2	93	calm	0	0			10 n			0.47	11.9	light rain	J. C. Sprigg, jr.
Mt. Washington, N. H.	24.08	611.6	30.16	766.1	48.5	9.2	89	nw.	20	8.9		3 c	0	nw.		0	0	clear	J. G. Linsley.
Nashville, Tennessee	29.47	748.5	30.03	762.7	71.5	21.9	90	s.	5	2.2			10 ks		s.	0.03	0.8	cloudy	L. N. Jesunofsky.
New Haven, Connecticut	30.10	764.5	30.21	767.3	59	15.0	81	calm	0	0		8 c	fg.			0	0	cloudy	J. H. Sherman.
New London, Connecticut	30.17	766.3	30.22	767.6	66	18.9	78	sw.	3	1.3		0	0			0	0	clear	J. G. Lynch.
New Orleans, Louisiana	29.97	761.2	30.02	762.5	77.5	25.3	86	s.	1	0.4		0	sk.			0.03	0.8	clear	L. Dunne.
Newport, Rhode Island	30.17	766.3	30.22	767.6	64.4	18.0	91	sw.	6	2.7		2 c	1 s	w.		0	0	clear	W. McGillivray.
New York, New York	30.05	763.3	30.22	767.6	63	17.2	84	sw.	2	0.9		3 cs	0	sw.		0	0	clear	J. B. Merrill.
Norfolk, Virginia	30.08	764.0	30.11	764.8	75	23.9	90	se.	7	3.1			10s;fg		se.	0	0	cloudy	Wm. Davis.
North Platte, Nebraska	27.32	693.9	30.12	765.0	54.6	12.6	80	ne.	5	2.2		0	7 s		n.	0	0	fair	E. F. Brady.
Olympia, Washington T'y.	29.97	761.2	30.01	762.2	52.0	11.1	86	calm	0	0		0	0			0	0	clear	J. Dascomb.
Ooglanmie, Pt. Barrow, Alas.																			P. H. Ray.
Omaha, Nebraska	29.07	738.4	30.21	767.3	54.0	12.2	86	n.	4	1.8		2 ck	8 s			0	0	cloudy	A. Pollak.
Oswego, New York	29.77	756.1	30.09	764.3	64.5	18.1	70	s.	6	2.7		5 cs	5 s	sw.	sw.	0	0	cloudy	S. W. Beall.
Palestine, Texas	29.49	749.0	30.03	762.7	70.5	21.4	90	n.	8	3.6		0	sk.			0	0	clear	L. M. Pindell.
Pensacola, Florida	30.03	762.7	30.06	763.5	74.2	23.4	97	w.	4	1.8		0	1 ks			0.33	8.4	clear	M. McGauran.
Philadelphia, Pa.	30.10	764.5	30.20	767.1	64	17.8	84	s.	4	1.8		9c;cs	hz.	w.		0	0	cloudy	T. F. Townsend.
Pike's Peak, Colorado	17.91	454.9	29.70	754.4	19	— 7.2	100	n.	1	0.4			10 n			0.46	11.7	light snow	L. M. Dey.
Pioche, Nevada	24.24	615.7	29.94	760.5	54.3	12.4	34	nw.	4	1.8		0	0			0	0	clear	C. N. Kitchel.
Pittsburg, Pennsylvania	29.28	743.7	30.08	764.0	66.1	18.9	90	e.	3	1.3		4 ck	6 s	sw.	w.	0.23	5.8	cloudy	J. B. Turton.
Poplar River, Montana	28.12	714.2						sw.			1	0	0			0	0	clear	W. D. Maxwell.
Port Eads, Louisiana	30.04	763.0	30.05	763.3	79.1	26.2	88	s.	7	3.1		0	0			0	0	clear	M. Hermann.
Port Huron, Michigan	29.33	745.0	29.99	761.7	66.0	18.9	93	s.	8	3.6			10 s			0.17	4.3	cloudy	W. O. Bailey.
Portland, Maine	30.07	763.8	30.12	765.0	66.0	18.9	76	nw.	1	0.4		2 c;hz	sk.			0	0	clear	W. W. Eichelberger.
Portland, Oregon	29.88	758.9	29.95	760.7	62.0	16.7	50	n.	4	1.8		0	sk.			0	0	dense smoke.	M. L. Hearne.
Portsmouth, N. C.					77	25.0	97	s.	12	5.4		0	8 ks		se.	1.84	46.7	cloudy	F. S. Coburn.
Prescott, Arizona	24.88	631.9	29.86	758.4	56	13.3	77	s.	4	1.8		0	0			0.43	10.9	clear	J. McN. Wright.
Provincetown, Mass.	30.15	765.8	30.18	766.6	66	18.9	78	sw.	6	2.7		3 cs	0	sw.		0	0	clear	P. T. Jenkins.
Punta Rassa, Florida	30.05	763.3	30.06	763.5	77	25.0	88	e.	6	2.7		4 c	0	calm		0	0	fair	W. J. Evans.
Red Bluff, California								calm			0	0	0			0	0	clear	J. M. Frantz.
Rio Grande City, Texas	29.77	756.1	30.01	762.2	78	25.6	82	se.	3	1.3		0	0			0	0	clear	H. S. Miles.
Rochester, New York	29.43	747.5	30.08	764.0	62	16.7	87	sw.	9	4.0			10 n			0.01	0.3	light rain	E. W. McGann.
Roseburg, Oregon	29.45	748.0	29.99	761.7	56	13.3	65	ne.	1	0.4		0	sk.			0	0	dense smoke	J. J. Nanry.
Sacramento, California	29.82	757.4	29.89	759.2	60.4	15.8	81	se.	2	0.9		0	0			0	0	clear	J. A. Barwick.
St. Louis, Missouri	29.46	748.3	30.04	763.0	66.0	18.9	97	nw.	9	4.0			10 s		nw.	0.11	2.8	cloudy	J. H. Webber.
St. Paul, Minnesota	29.31	744.5	30.15	765.8	56.0	13.3	80	nw.	8	3.6		10 cs	0	ne.		0	0	cloudy	P. F. Lyons.
St. Vincent, Minnesota	29.41	747.0	30.26	768.6	42	5.6	93	calm	0	0		0	0			0	0	clear	G. Kingsbury.
Salt Lake City, Utah	25.84	656.3	30.04	763.0	62	16.7	38	se.	5	2.2		0	0			0	0	clear	J. Craig.
San Antonio, Texas	29.30	744.2	29.98	761.5	75.0	23.9	76	ne.	3	1.3		0	8 ks		e.	inap.	inap.	cloudy	T. J. Kenan.
San Diego, California	29.80	756.9	29.87	758.7	66.4	19.1	89	nw.	2	0.9			fg.			0	0	dense fog	A. C. Dobbins.
Sandusky, Ohio	29.35	745.5	30.01	762.2	67	19.4	84	sw.	7	3.1		5 cs	0			0.02	0.5	fair	M. H. Perry.
Sandy Hook, New Jersey	30.19	766.8	30.22	767.6	65.0	18.3	84	sw.	2	0.9		2 cs	0	calm		0	0	clear	B. A. Blundon.
San Francisco, California	29.91	759.7	29.98	761.5	55	12.8	93	sw.	6	2.7			fg.			0	0	dense fog	N. Goron.
Santa Fé, New Mexico	23.39	594.1	29.88	758.9	43	6.1	86	w.	2	0.9			10 s			0.45	11.4	cloudy	H. U. Jones.
Savannah, Georgia	30.03	762.7	30.12	765.0	74	23.3	97	n.	4	1.8			10 s			0.11	2.8	cloudy	H. W. Ford.
Shaw, Fort, Montana	26.68	677.7	30.20	767.1	42	5.6	82	w.	2	0.9		0	0			0	0	clear	A. L. Mathews.
Shreveport, Louisiana	29.77	756.1	30.00	762.0	73	22.8	90	calm	0	0		0	hz.			0	0	clear	E. N. Meekins.
Sill, Fort, Indian Territory	28.90	734.0	30.08	764.0	60.5	15.8	85	n.	9	4.0			10 s		w.	0	0	cloudy	T. Cleary.
Silver City, New Mexico	24.38	619.2	29.84	757.9	55	12.8	72	calm	0	0		0	6 s		calm	0.57	14.5	fair	J. B. Wallace.
Sitka, Alaska	30.06	763.5	30.12	765.0	54.5	12.5	80	calm	0	0			10 s			0.12	3.0	threatening.	J. J. McLean.
Smith, Fort, Arkansas	29.60	751.8	30.06	763.5	63.5	17.5	90	sw.	4	1.8		3 cs	0	w.		0	0	clear	J. B. Campbell.
Smithville, North Carolina	30.07	763.8	30.11	764.8	76	24.4	90	sw.	1	0.4		6 cs	0	w.		1.32	33.5	fair	O. Parker.
Spokane Falls, Wash. Ter.	28.14	714.7	30.14	765.5	52	11.1	69	calm	0	0		0	sk.			0	0	clear	D. Moore.
Springfield, Illinois	29.37	746.0	30.03	762.7	65	18.3	90	nw.	7	3.1			10 s		nw.	0	0	cloudy	T. B. Jennings.
Springfield, Massachusetts	30.07	763.8	30.20	767.1	57.2	14.0	93	s.	1	0.4			fg.			0	0	dense fog	T. S. Outram.
Springfield, Mo.	28.67	728.2	30.06	763.5	64	17.8	87	n	6	2.7			10 s			inap.	inap.	cloudy	J. B. Marbury.
Starkville, Miss.	29.58	751.3	30.05	763.3	73	22.8	90	se.	2	0.9			fg.			0.03	0.8	dense fog	M. J. Wright, jr.
Stevenson, Fort, Dakota	28.51	724.1	30.29	769.4	37	2.8	82	n.	4	1.1		0	0			0	0	clear	W. Burrows.
Stockton, Fort, Texas	27.10	688.3	30.04	763.0	55.0	12.8	100	calm	0	0			10 n		n.	1.33	33.8	light rain	J. O'Dowd.
Thomas Camp	27.30	693.4	29.92	760.0	61.5	16.4	91	calm			0	0	0			0.04	1.0	clear	J. T. Fitzgerlad.
Thatcher's Island, Mass.	30.10	764.5	30.15	765.8	62.0	16.7	81	w.	12	5.4		5 c	sk.	w.		0	0	fair	G. Liebmann.
Toledo, Ohio	29.32	744.7	29.99	761.7	66	18.9	90	se.	6	2.7			10 s		s.	0.09	2.3	cloudy	A. Buell.
Tucson, Arizona	27.53	699.2	29.87	758.7	71	21.7	68	se.	3	1.3		0	0			0	0	clear	J. L. Whiteside.
Umatilla, Oregon	29.72	754.9	30.08	764.0	54	12.2	43	se.	5	2.2		0	hz.			0	0	clear	J. Daly.
Uvalde, Texas	29.03	737.3	29.97	761.2	75	23.9	82	e.	4	1.8			10 ks		s.	0	0	cloudy	E. C. Imlay.
Verde, Fort, Arizona					59.9	15.5	52	nw.			1	0	0			0.01	1.0	clear	D. Brooks.
Vicksburg, Mississippi	29.79	756.7	30.03	762.7	71	21.7	94	calm	0	0		0	0			0.45	11.4	clear	James Kenealy.
Visalia, California																			W. L. Seward.
Washakie, Fort, Wyoming	24.79	629.7	30.13	765.3	49.3	4.6	72	e.	4	1.8		2 c; k	2 k			0	0	fair	T. M. Ambler.
Washington, D. C.	30.05	763.3	30.16	766.1	66.5	19.2	93	e.	4	1.8			10 s		e.	0	0	cloudy	F. M. M. Beall.
West Las Animas, Colorado	26.33	668.8	30.08	764.0	50	10.0	93	n.	14	6.3			10 n		n.	0.05	1.3	light rain	F. H. Brandenburg.
Williamsport, Pa.	29.58	751.3	30.16	766.1	61	16.1	84	calm	0	0			10 ks		sw.	0	0	cloudy	B. F. Hough.
Wilmington, N. Carolina	30.06	763.5	30.11	764.8	76	24.4	97	calm	0	0		0	8 ks			0.72	18.3	cloudy	Samuel A. Haney.
Winnemucca, Nevada	25.80	655.3	30.03	762.7	52	11.1	27	ne.	14	6.3		0	0			0	0	clear	J. Grover.
Yankton, Dakota	28.98	736.1	30.25	768.3	51	10.6	83	calm	0	0		10 cs	0			0	0	cloudy	J. H. Atfield.
Yuma, Arizona	29.67	753.6	29.81	757.2	80.7	27.1	68	e.	3	1.3		0	0			0	0	clear	O. D. Stewart
Sub-series.																			
Bogota, U. S. Columbia	22.06	560.3			53.0	11.7	73	ne.	1	0.4			10 ns		nw.	0.30	7.6	cloudy	Joaquin Gomez.
Bridgetown, Barbadoes, W. I.	29.96	761.0	29.97	761.2	83	28.3	79	se.				3 k	5 ks	e		0.60	15.2	fair	J. A. Racker.
Buenaventura, U. S. C.	29.97	761.2	30.00	762.0	77	25.0	90	s.	3	1.3		0	8 ks		s.	0	0	cloudy	J. I. Plunne.
Havana, Cuba	29.98	761.5	30.04	763.0	78	25.6	82	calm	0	0		4 cs	0	n.		0.60	15.2	fair	Chas. Hasselbrink.
Kingston, Jamaica, W. I.																			Robert Johnston.
Magua, San Domingo, W. I.					72	22.2		calm			0	0	0			0	0		S. M. Pike.
Navassa, W. I.	29.88	758.9	29.96	761.0	83.5	28.6	74	e.	8	3.6		2 cs	3 k	se.	e.	0	0	fair	F. M. Everett.
Paramaribo, S. A.	30.04	763.0	30.04	763.0	79	26.1	82	e.			2	5 ck	4 s	e.		0	0	fair	Dr. C. J. Hering.
Puerto Berrio, U. S. Col'mba	29.41	747.0	29.97	761.2	79	26.1	89	s.			1		10 ks		s.	0.02	0.5	cloudy	Francisco J. Cisneros.
Rivas, Nicaragua, C. A.					77	25.0	95	ne.			1		10 ks		ne.	0	0	cloudy	Earl Flint.
St. Paul, Kodiak Id., Alaska	30.12	765.0	30.16	766.1	46	7.8	100	calm			0	4 c	0			0	0	fair	W. J. Fisher.
St. Thomas, W. I.	29.90	759.4	30.03	762.7	82	27.8	80	ne.				0	4 k		ne.	0.03	0.8	fair	Aug. Wallce.
York Factory, B. A.	30.05	763.3	30.11	764.8	49.0	9.4	93	w.	9	4.0		0	0			0	0	clear	Fortesque & Wood.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.	Direction from	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill			
British Naval.																		
H. M. S. Alert, N. 45° 40′, W. 14° 27′	29.91	759.7	67	19.4	97	sw.			4–5		10							showery.
H. M. S. Alexandra, Port Said, Egypt	29.84	757.9	83	28.3	79	nw.			2		1					1	nw.	blue sky.
H. M. S. Amethyst, Rio de Janeiro, Brazil	30.36	771.1	65	18.3	78	ne.			2		3	sw.				2	s.	d. clouds.
H. M. S. Antelope, N. 41° 08′, E. 29° 03′	29.85	758.2	74	23.3		n.			3		10	nnw.						showery.
H. M. S. Arab, Jask, Persia	29.60	751.8	83	28.3	83	se.			3		2	se.				3	s.	misty.
H. M. S. Boadicea, Simon's Bay, Cape Colony	30.18	766.6	61.5	16.4		var.			1–2		3							d. clouds.
H. M. S. Comus, Esquimalt, Vancouver Island	30.01	762.2	55	12.8	87	calm			0		0							blue sky.
H. M. S. Diamond, S 31° 35′, E. 153° 15′	29.83	757.7	67	19.4	90	s.			1		0					1	s.	blue sky.
H. M. S. Dido, N. 17° 00′, W. 76° 00′	30.04	763.0	83	28.3		e.			3		3	e.				1	ene.	d. clouds.
H. M. Dock-Yard, Bermuda, W. I.	30.12	765.0	76	24.4	70	sw.			1–2		4	sw.						d. clouds.
H. M. S. Eclipse, N. 30° 26′, E. 32° 30′	29.68	753.9	92.5	33.6		calm			0		1							blue sky.
H. M. S. Fantome, N. 13° 04′, W. 59° 37′	30.04	763.0	83	28.3		s.			2		7	s.				3	s.	d. clouds.
H. M. S. Flying Fish, N. 37° 14′ E. 126° 11′	29.93	760.2	70	21.1	95	ne.			2		5					2	ne.	squally.
H. M. S. Gannet, S. 2° 25′, W. 79° 49′	29.97	761.2	69.5	20.8	84	nw.			1		10	ne.						d. clouds.
H. M. S. Iron Duke, N. 37° 36′ E. 129° 14′	30.03	762.7	65	18.3	100	wsw.			3		9	w.				2	nnw.	d. clouds.
H. M. S. Lark, S. 10° 23′, E. 161° 40′	29.90	759.4	79.3	26.3	93	s.			1		3					1	e.	d. clouds.
H. M. S. Liffey, Coquimbo, Chili	30.00	762.0	53	11.7		e.			1									d. clouds.
H. M. S. Magpie, N. 35° 09′, E. 128° 42′	29.98	761.5	72.1	22.3	88	e.			1–2		5	w.						misty.
H. M. S. Minotaur, off Ramleh, Egypt	29.84	757.9	80	26.7	72	nw.			1		3					1	nw.	misty.
H. M. S. Northampton, Quebec, Quebec, Canada	30.04	763.0	71	21.7	75	sw.			2		8	wsw.						d. clouds.
H. M. S. Orontes, N. 32° 45′, E. 28° 25′	29.88	758.9	79.5	26.4	91	nw.			1		4					2	cf'd	d. clouds.
H. M. S. Pegasus, N. 6° 53′, E. 116° 49′	29.82	757.4	77	25.0	86	w.			3		10							d. clouds.
H. M. S. Sappho, N. 19° 44′, W. 155° 05′	30.01	762.2	73	22.8	100	wsw.			2		5	ene.				2	ne	d. clouds.
H. M. S. Swiftsure, Coquimbo, Chili	30.14	765.5	54	12.2	100	calm			0		6							d. clouds.
H. M. S. Sylvia, Montevideo, Uruguay	30.07	763.8	54.5	12.5	91	n.			4		3							d. clouds.
H. M. S. Tenedos, N. 47° 34′ W. 52° 41′	30.00	762.0	58	14.4	84	ssw.			1		7	nw.						d. clouds.
H. M. S. Triumph, Bahia, Brazil	30.16	766.1	79	26.1	86	ese.			2–3		1	ese.						blue sky.
H. M. S. Woodlark, N. 23° 55′, E. 58° 24′	29.58	751.3	87.5	30.8	75	se.			2–3		2	e.				2	se.	misty.
Portuguese Naval.																		
Rio Lima, Saint Vincent, Cape Verd Islands	30.11	764 7	79.7	26.5	84	ne.			1		3		ne.			2		d. clouds.
Tamega, Macao, China	29.87	758.7	84.6	29.2	83	e.			3		3							d. clouds.
United States Naval.																		
Navy Yard, Pensacola, Fla.	29.93	760.2	74	23.3	95	nw.	2	0.9			8		sw.	0.04	1.0			fair.
Navy Yard, Portsmouth, N. H.	30.13	765.3	66	18.9	74	calm	0	0			0			0	0			clear.
Naval Hospital, Yokohama, Japan*	29.80	756.9	77	25.0	91	sw.			2		10		w.	sll't	sll't			cloudy.
Adams, Mare Island, Cal.			57	13.9	87	w.			2		10		sw.	0	0	sm'h		cloudy.
Alaska, N. 17° 32′, W. 146° 15′	29.98	761.5	73	22.8	85	ne.			6		10			0	0	mod.	n.	cloudy.
Alliance, Portland, Maine	30.14	765.5	63	17.2	?	calm			0		0			0	0	sm'h		clear.
Ashuelot, Yokohama, Japan*	29.84	757.9	78	25.6	91	sw.			2		8		sw.					cloudy.
Brooklyn, S. 23° 13′ W. 43° 08′	30.36	771.1	67	19.4	84	ene.	9	4.0			5		ene.	0	0	mod	ene.	fair.
Colorado, New York, N. Y.	30.21	767.3	64	17.8	94	sw.	1	0.4			2		calm	0	0			light haze.
Constellation, Annapolis, Maryland *	30.14	765.5	71	21.7	90	se.			4		10		se.					cloudy.
Enterprise, Portland, Maine	30.11	764.8	63	17.2	100	sw.			1		5		calm					fair.
Essex, Coquimbo, Chili	30.11	764.8	54	12.2	74	calm			0		2		nnw.			sm'h	nw.	clear.
Franklin, Norfolk, Va.	30.14	765.5	75	23.9	95	ese.	4.8	2.1			10		se.	inap.	inap.			cloudy.
Galena, S. 8° 08′, W. 32° 40′	30.09	764.3	77	25.0	95	s.			5		2		s.			mod.	s.	squally.
Hartford, Funchal, Madeira*	30.11	764.8	74	23.3	90	wsw.			2		8		w.	0	0	sm'h		cloudy.
Independence, Mare Island, Cal.	30.01	762.2	56	13.3	100	sw.			4		10		sw.	0	0			foggy.
Iroquois, N. 8° 20′ W. 84° 47′	29.89	759.2	79	26.1	86	s.			2		8		s.			sm'h	sse.	fair.
Kearsarge, Portland, Maine	30.13	765.3	62	16.7	100	calm			0		2							fair.
Lackawana, Callao, Peru*	29.95	760.7	60	15.6	88	se.			2		10							cloudy.
Lancaster, Messina, Sicily *	29.92	760.0	81	27.2	66	n.			3		2		n.	0	0			fair.
Marion, S. 34° 54′, W. 56° 13′	30.04	763.0	57	13.9	87	nne.			5		8					sm'h		hazy.
Michigan, Marquette, Michigan	30.04	763.0	58	14.4	88	n.			3		10		n.					raining.
Minnesota, New York, N. Y.	30.05	763.3	66	18.9	79	calm	0	0			10							hazy.
Monocacy, N. 37° 11′ E. 126° 33′	29.96	761.0	71	21.7	85	ene.			2		8		ene.					fair.
New Hampshire, Newport, R. I.	30.27	768.8	64	17.8	89	wsw.			3		2					sm'h		clear.
Nipsic, N. 33° 56′, E. 24° 32′ *	29.84	757.9	79	26.1	82	wnw.			3		2					sm'h	nw.	clear.
Onward, Callao, Peru†	30.11	764.8	59	15.0	94	sse.			2		10		n.			long	w.	cloudy.
Palos, Kobe, Japan*	29.89	759.2	80	26.7	91	w.			1		5		sw.					fair.
Passaic, Washington, D. C.			70	21.1	?	w.			1		2							fair.
Pensacola, Payta, Peru*	29.95	760.7	62	16.7	88	ese.	3	1.3			10			0	0	sm'h		cloudy.
Portsmouth, off Funchal, Madeira *	30.15	765.8	75	23.9	64	wnw.			1		5		w.			sm'h		fair.
Powhatan, Norfolk, Va.	30.12	765.0	76	24.4	91	se.			1		10							cloudy.
Quinnebaug, N. 32° 54′, E. 27° 40′*	29.84	757.9	84	28.9	63	wnw.			1		2		nw.			long	nw.	clear.
Ranger, Mare Island, Cal.	29.99	761.7	60	15.6	88	sw.			3		10			0	0			foggy.
Richmond, Yokohama, Japan*	29.87	758.7	78	25.6	95	ssw.			2		5		s.	0	0			fair.
Saratoga, Funchal, Madeira	30.15	765.8	78	25.6	73	n.			2		5?		n.	0	0	sm'h		cloudy.?
St. Louis, League Island, Pa.	30.45	773.4	61	16.1	94	ne.			2		2			0	0			clear.
Swatara, N. 0° 16′ E. 104° 47′*	29.72	754.9	81	27.2	83	ssw.			2		8		calm			sm'h		fair.
Tennessee, Portland, Maine †	30.18	766.6	66	18.9	89	calm	0	0			2			0	0			clear.
Vandalia, Portsmouth, N. H*	30.11	764.8	68	20.0	79	calm			0		5		w.					fair.
Wabash, Boston, Mass.	30.18	766.6	65	18.3	63	wsw.	7	3.1			2		w.	0	0			fair.
Wachusetts, Fort Wrangle, Alaska †	30.48	774.2	51	10.6	100	sse.			1		0			0	0	sm'h		clear.
Wyoming, Port Royal Bar, S. C.*	30.07	763.8	77	25.0	86	ne.	4	1.8			10		nnw.	0.36	9.1			raining.
Yantic, Portland, Maine	30.14	765.5	64	17.8	83	calm			0		5							fair.
Merchant Marine.																		
Allan Line.																		
S. S. Grecian, Ismailia, Egypt *	29.83	757.7	92	33.3		n.			1		0			0	0			clear.
S. S. Polynesian, N. 52° 22′, W. 52° 54′*	29.68	753.9	51	10.6		ssw.			2		10		sw.	0	0	sm'h	wsw.	showery.
American Steamship Company.																		
S. S. British Crown, N. 51° 14′, W. 14° 19′†	29.62	752.3	61	16.1		ssw.			4		10			20 h'r	20 h'r	mod.	wsw.	hazy.
S. S. Indiana, N. 39° 19′, W. 65° 07′ †	30.19	766.8	76	24.4	86	w.			3		2		w.			sm'h	w.	fine.
S. S. Lord Clive, Liverpool, England*†	29.88	758.9				se.			2		10			0	0			overcast.
S. S. Lord Gough, Philadelphia, Pa	30.15	765.8	64	17.8		s.			4		8			0	0			cloudy.
S. S. Ohio, Liverpool, Eng.			58	14.4	87	n.			3		9		nw.					cloudy.
Amsterdam Line.																		
S. S. Stella, N. 49° 40′ W. 21° 30′	29.61	752.1	66.2	19		ssw.			3		9		sw.	3 h'r	3 h'r	3	ssw.	misty.
Anchor Line.																		
S. S. Alexandria, N. 41° 39′ W. 36° 20′	29.84	757.9	71.5	21.9		nnw.			5		3		n.	2 h'r	2 h'r	6	cf'd	clearing.
S. S. Assyria, N. 47° 28′, W. 33° 02′*	29.43	747.5	63	17.2		w.			7		4		w.	0	0	r'gh	w.	clear.
S. S. Bolivia, N. 45° 17′, W. 49° 35′*†	30.04	763.0	56	13.3		ne.			1				ne.	0	0	sm'h		fine.
S. S. Dorian, N. 48° 22′ W. 29° 09′ *	29.21	741.9	63	17.2		wsw.			4		10		w.	5 h'r	5 h'r	mod.	wnw.	raining.
S. S. Ethiopia, N. 50° 26′, W. 41° 13′	29.31	744.5	54.5	12.5	?	w.			6		10		w.	0	0	h'vy	w.	overcast.
S. S. Utopia, off Malaga, Spain †	30.26	768.6	71	21.7		ne.			1		10		ne.	0	0	sm'n		dense fog.
Atlas Line.																		
S. S. Ailsa, N. 34° 33′. W. 74° 04′ †	30.21	767.3	79	26.1	73	sse.			5		5		s.	0	0	mod.	sse.	fair.
S. S. Alene, N. 10° 30′, W. 78° 45′ †	29.88	758.9				ne.			3		4		ene.	1 h'r	1 h'r	r'gh	ene.	fair.
British Meteorological Office.																		
Auckland, S. 49° 05′, E. 147° 00′	29.24	742.7	48	8.9	85	nnw.			4		9							overcast.
S. Baroda, N. 36° 20′. W. 35° 22′	30.11	764.8	79.5	26.4	78	sw.			5		4							d. clouds.
S. S. Basil, N. 38° 12′ W. 17° 49′	30.23	767.8	71	21.7	85	nw.			2		1					sm'h		blue sky
S. S. British Merchant, N. 8° 07′, W. 24° 14′	29.99	761.7	76.2	24.5	90	sw.			3		9							showery.
S. S. City of Agra, S. 40° 54′, E. 99° 21′	29.26	743.2	49.8	9.9	87	nw.			4		2							blue sky.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		WEATHER.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.				Character.†	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
BRITISH METEOROLOGICAL OFFICE.—Continued.																		
S. S. Coppename, N. 9° 45′, W. 57° 12′	29.98	761.5	83	28.3	70	ese.			4		4							blue sky.
Bk. Caldew, S. 29° 50′ E. 54° 57′	30.33	770.4	62	16.7	83	ne.			6		2							blue sky.
S. S. Humboldt, S. 16° 40′, W. 37° 50′	30.26	768.6	71.3	21.8	90	se.			6		9							overcast.
S. S. Minho, S. 34° 59′, W. 56° 03′	30.06	763.5	54.9	12.7	97	nne.			4		5							misty.
S. S. Oamaru, N. 48° 50′, W. 18° 24′	29.71	754.6	65.1	18.4	94	sw.			4									foggy.
S. S. Mertola, N. 36° 47′, W. 8° 35′	30.03	762.7	70.5	21.4	95	se.			1		3							blue sky.
S. S. Rosetta, N. 18° 40′, E. 39° 28′	29.64	752.8	90.5	32.5	74	nw.			5		1							blue sky.
CROMWELL LINE.																		
S. S. Hudson, N. 27° 35′, W. 87° 35′†	30.15	765 8	82	27.8		s.			3		3		se.	o	o	mod.	s.	fair.
CUNARD LINE.																		
S. S. Bothnia, N. 47° 52′, W. 35° 41′	29.42	747.3	62	16.7	88	nw.			5		7		nw.	shr's	shr's	mod.	nw.	cloudy.
S. S. Gallia, N. 50° 49′, W. 12° 29′	29.65	753.1	63	17.2	94	sw.			4		10			12 h'r	12 h'r	mod.	sw.	dense fog.
S. S. Marathon, Lake Ismalia, Egypt			87	30.6		nw.			1		1		nw.	o	o	sm'h	nw.	clear.
S. S. Scythia, New York, N. Y.	30.14	765.5	69	20.6	90	calm			0		3		calm	o	o			hazy.
DONALDSON LINE.																		
S. S. Colina, N. 54° 16′ W. 36° 28′†	29.40	746.7				wsw.			1		10		wsw.			long	ne.	misty.
GENERAL TRANS-ATLANTIC COMPANY.																		
S. S. France, N. 48° 34′, W. 25° 00′ †	29.44	747.7	62.6	17		ssw.			5		k		s.	hail	hail	h'vy	sw.	hailing.
S. S. Ville de Marseilles, N. 42° 02′ W. 35° 04′*†	29.80	756.9	70	21.1		nw.			5		4		nw.	15 h'r	15 h'r	r'gh	w.	fair.
HAMBURG AMERICAN PACKET COMPANY.																		
S. S. Cimbria, N. 44° 07′, W. 46° 31′	30.02	762.5	62	16.7		nne.			4		5		ne.	o	o	long	ne.	fair.
S. S. Herder, N. 47° 29′, W. 28° 56′ *	29.10	739.1	80	26.7		nw.			5		4		nw.	5 h'r	5 h'r	mod.	wnw.	fair.
S. S. Silesia, New York, N. Y.	30.21	767.3	73.8	23.2		calm			0					o	o			fair.
S. S. Vandalia, Hamburg, Germany*	29.88	758.9	57.6	14.2		nw.			3		3		nw.	o	o			fair.
S. S. Wieland, N. 49° 09′, W. 32° 00′	29.42	747.3	59	15.0		wnw.			2		3		wnw.	6 h'r	6 h'r	3	wnw.	clearing.
INMAN LINE.																		
S. S. City of Berlin, N. 48° 15′, W. 42° —′	29.73	755.1	59	15.0	81	wnw.			7		9		wnw.	o	o	r'gh	wnw.	cloudy.
JOHNSTON LINE.																		
S. S. Nessmore, N. 38° 57′. W. 66° 00′ *	29.87	758.7	76	24.4	95	calm			0		0					mod.	ene.	clear
S. S. St. Albans, N. 38° 25′, W. 65° 20′ *†	30.30	769.6				var.			2		1			o	o			fine.
LAMPERT AND HOLT'S LINE.																		
S. S. Hevelius, N. 14° 00′, W. 27° 00′*†	30.19	766.8	82	27.8		nnw.			4		9?		w	2 h'r	2 h'r			clear?
LEYLAND LINE.																		
S. S. Bulgarian, N. 47° 34′. W. 39° 50′*	29.72	754.9				nw.			7		10		nw.	8 h'r	8 h'r	high	nw.	
MALLORY LINE.																		
S. S. Colorado, N. 24° 49′, W. 80° 55′†	30.08	764.0	81	27.2		se.			2		3		se.	1 h'r	1 h'r	small	se.	fair.
S. S. San Marcos, N. 33° 42′, W. 75° 30′	30.17	766.3				var.												heavy rain.
MEDITERRANEAN AND NEW YORK STEAMSHIP CO.																		
S. S. Archimede, Palermo, Sicily*†	30.02	762.5	80	26.7	78	wnw.			3		5			o	o			fair.
MERCHANT STEAMSHIP COMPANY.																		
S. S. Glenfyne, N. 18° 11′, W. 55° 35′	29.62	752.3				ese.			5		2		ese.	o	o	r'gh	se.	fair.
S. S. Glenapp, off Rio de Janeiro, Brazil†	30.17	766.3				var.			4		6		var.	o	o	hv'y	se.	
MORGAN LINE.																		
S. S. Chalmette, N. 24° 25′, W. 81° 56′†	30.08	764.0	83	28.3		ese.			1		3		sw.	1 h'r	1 h'r	sm'h		fair.
S. S. New York, N. 26° 20′, W. 85° 32′†	30.01	762.2	82	27.8		ese.			3		2		e.			sm'h		clear.
NATIONAL LINE.																		
S. S. Denmark, N. 47° 56′. W. 29° 35′	29.45	748.0	63	17.2		wsw.			6		5		wnw.	o	o	r'gh	wsw.	fine.
S. S. England, N. 42° 06′ W. 46° 21′†	30.10	764.5				n.			5		2		ne.	o	o	h'vy	ne.	
S. S. Erin, New York N. Y.	30.28	769.1	76	24.4		ese.			4		4		se.	o	o			fine.
S. S. Helvetia, N. 52° 00′, W. 6° 40′	29.72	754.9	63	17.2		s.			2		10		sw.	7 h'r	7 h'r			dull.
NEW YORK AND CUBA MAIL STEAMSHIP COMPANY.																		
S. S. Santiago, St. Jago, Cuba, W. I †	30.05	763.3	81	27.2		calm			0		2			o	o			fine.
NEW YORK, HAVANA AND MEXICAN MAIL.																		
S. S. City of Alexandria, Vera Cruz, Mexico†	30.00	762.0	75	23.9		wsw.			1		0			4 h'r	4 h'r			clear.
S. S. City of Washington, Havana, Cuba, W. I.	30.12	765.0	85	29.4		calm			0		2		e.	o	o	sm'h		fine.
NEW YORK HERALD WEATHER SERVICE.																		
S. S. Maas, N 44° 23′, W. 52° 57′ *	29.93	760.2	64	17.8		w.										mod.		fine.
NORTH GERMAN LLOYD.																		
S. S. America, N. 48° 28′ W. 37° 24′*	29.44	747.8	58.0	14.4	91	w.			6		10		w.	2 h'r	2 h'r	r'gh	w.	showery.
S. S. Elbe, Folkstone, Eng	30.04	762.9	59.0	15.0	100	w.			2–3		5		w.	o	o	sm'h	wsw.	hazy.
S. S. Graf Bismarck, Santos, Brazil	30.42	772.7	68.9	20.5		e.			1–4		3		e.	o	o	light	n.;se.	clear.
S. S. Koln, N. 42° 09′. W. 47° 01′*	30.05	763.3	67.0	19.4	74	n.			3–4		5		n.	o	o	mod.	nne.	fair.
S. S. Kronprinz F. Wilhelm Antwerp, Belgium						w.			4		5		w.	o	o			fair.
S. S. Main, N. 48° 34′, W. 44° 16′	29.80	756.9	51.8	11.0		nnw.			6		6		nnw.			mod.	nnw.	cloudy.
S. S. Neckar, N. 47° 09′, W 41° 09′	29.80	756.9	60.0	15.6	76	n.			6		7		n.	rain	rain	cross	n.	squally.
S. S Oder, N. 49° 46′, W. 9° 32′	29.74	755.4	62.6	17 0		wsw.			6		10		wsw.			r'gh	wsw.	raining.
S. S. Ohio, N. 50° 42′, E. 0° 04′	30.03	762.7				s.			3		8		w.	o	o	sm'h		cloudy.
S. S. Salier, Bremerhaven, Germany	29.93	760.2	54.5	12.5		wnw.			4		10		nw.	3 h'r	3 h'r			raining.
S. S. Strassburg, N. 37° 05′, W. 75° 41′	30.12	765.0	71.5	21.9	69	se.			3		10		se.	o	o	sm'h		covered.
OCCIDENTAL AND ORIENTAL STEAMSHIP COMPANY.																		
S. S. Belgic, Hong Kong, China†	30.02	762.5	80	26.7	82	e.			4		8		ne.	3 h'r	3 h'r			squally.
S. S. Gaelic Yokohama, Japan	30.06	763.5	76	24.4	86	n.			2		7		w.			sm'h		cloudy.
OCEAN STEAMSHIP COMPANY.																		
S. S. City of Augusta, N. 34° 38′, W. 75° 48′†	30.20	767.1				se.			3		10?		se.	o	o	long	se.	clear?
S. S. Seminole, Boston, Mass †	30.22	767.6	88	31.1	79	w.			1		1		sw.	o	o			clear.
OREGON IMPROVEMENT COMPANY.																		
S. S. Mississippi, Seattle, Wash Ter.†	30.08	764.0	60	15.6	76	calm			0		0							clear.
OREGON RAILWAY AND NAVIGATION COMPANY.																		
S. S. Columbia, N. 39° 05′, W. 123° 13′*†	29.94	760.5	55	12.8	93	wnw.			3		10		nw.			light	nw.	foggy.
S. S. Oregon, Portland, Oregon†	30.01	762.2	65	18.3	94	calm			0		10							cloudy.
PACIFIC COAST STEAMSHIP COMPANY.																		
S. S. Ancon, N. 34° 26′, W. 120° 30′ †	29.84	757.9	58	14.4	88	wnw.			4		0					mod.	nw.	clear.
S. S. Idaho, Portland, Oregon †	30.02	762.5	64	17.8	83	sw.			2		0			o	o			clear
S. S. State of California, San Francisco, Cal.†	29.98	761.5	53	11.7	100	w.			2		10		sw.					foggy.
PACIFIC MAIL STEAMSHIP COMPANY.																		
S. S. Australia, N. 30° 29′, W. 144° 17′	30.17	766.3	70	21.1	90	calm			0		10			o	o	sm'h		hazy.
S. S. City of New York, Sydney, N. S. W†	29.85	758.2	55	12.8	74	w.			1		5		sw.	o	o			fair.
S. S. City of Pekin, Hong Kong, China †	30.02	762.5	80	26.7	91	ne.			2		8		e.	o	o	sm'h		cloudy.
S. S City of Sydney, N. 30° 16′, W. 140° 53′ †	30.22	767.6	72	22.2	76	ene.			2		5		ne.	o	o	mod.	ne.	fair.
S. S. City of Tokio, N. 42° 51′, E. 171° 00′ †	30.32	770.1	62	16.7	83	n.			4		10		nw.	4 h'r	4 h'r	mod.	nw.	misty.
S. S. Colima, N. 8° 06′, W. 79° 42′†	29.91	759.7	79	26.1	95	wsw.			3		10		sse.	o	o	sm'h	s.	cloudy.
S. S. Clyde, N. 15° 48′, W. 98° 30′ †	29.93	760.2	81	27.2	74	e.			2		5?		ene.	7 h'r	7 h'r	long	se.	clear.?
S. S. Zelandia, Sydney, N. S. W	29.91	759.7	56	13.3		calm			0		0							
QUEBEC STEAMSHIP CO.																		
S. S. Bermuda, St. Pierre, W. I†	29.95	760.7	85	29.4		ne.			1		4		ene.	o	o	gentle	ne.	fine.
RED D LINE.																		
S. S. Caracas, La Guayra, Venezuela*†	29.90	759.4				ne.			1		0			sh'rs	sh'rs		n.	fine.
RED STAR LINE.																		
S. S. Belgenland, Scheldt river, Germany †	30.19	766.8	65	18.3	83	nw.			4		5			o	o			fair.
S. S. Nederland, N. 49° 51′, W. 6° 26′ †	30.16	766.1	59	15.0	100	s.			5		10			12 h'r	12 h'r	sm'h	w.	raining.
S. S. Pennland, N. 42° 55′, W. 48° 44′	30.13	765.3				var.			2		2		ne.	o	o	long	ne.	clear.
S. S. Vaderland. N. 47° 34′, W. 24° 55′	29.49	749.0	67	19.4	95	sw.			6		10		sw.	10 h'r	10 h'r	high	ssw.	misty
S. S. Waesland, Antwerp, Belgium	30.04	763.0	70	21.1	57	ssw.			4		2		w.	1 h'r	1 h'r			fair.

VESSELS, WITH POSITION AT TIME OF OBSERVATION.	Barometer reduced to sea-level.		Temperature of the air.		Relative humidity.	Wind.				Clouds.				Rainfall or melted snow in the past 24 hours.		Sea-swell.		Weather.
						Direction.	Velocity.		Force.	Amount and kind.		Direction.						
										Upper.	Lower.	Upper.	Lower.			Character.	Direction from.	
	Inch.	Mill.	Fah.	Cent.	Per cent.	From.	Miles p. hr.	Mtrs. p. sec	0–10	0–10	0–10	From.	From.	Inch.	Mill.			
ROTTERDAM LINE.																		
S. S. Edam N. 50° 58′, W. 22° 48′	29.52	749.8	59.0	15.0	100	sw.			2		9		w.	16 h'r	16 h'r	mod.	w.	foggy.
S. S. Schiedam, N. 51° 20′ E. 4° 00′	30.05	763.3	66.9	19.4	81	nw.			4		5		nw.	0	0	sm'h		fair.
S. S.W. A Scholten, Rotterdam, Holland*	29.88	758.9	64.2	17.9	73						3		n.	0	0			
ROYAL MAIL STEAM PACKET CO.																		
S. S. Belize, N. 38° 23′, W. 74° 18′	30.19	766.8	75	23.9		ese.			2		2		s.	0	0	mod	se.	clear.
STATE LINE.																		
S. S. State of Florida, Glasgow, Scotland	29.84	757.9	63	17.2		ese.			4		10		se.	shr's	shr's			cloudy.
S. S. State of Indiana, N. 51° 01′, W. 40° 00′†	29.49	749.0	56	13.3		nnw.			7		8		nnw.	8 h'r	8 h'r	r'gh	nnw.	misty.
THINGVALLA LINE.																		
S. S. Thingvalla, N. 57° 13′, W. 19° 28′†	29.82	757.4	53.6	12.0	?	ese.			6		10		ene.	14 h'r	14 h'r	hv'y	ese.	covered.
WARREN LINE.																		
S. S. Iowa, N. 51° 02′ W. 34° 00′*	29.48	748.8	54	12.2		sw.			4		9			1 h'r	1 h'r	mod.	var.	cloudy.
WHITE STAR LINE.																		
S. S. Adriatic, N. 49° 30′, W. 25° 13′*†	29.58	751.3	62	16.7	88	ese.			4		10		ese.	5 h'r	5 h'r	mod.	se.	drizzling
S. S. Celtic, N. 51° 27′ W. 14° 56′†	29.65	753.1	61	16.1	94	ssw.			4		10		sw.	6 h'r	6 h'r	mod.	wsw.	hazy.
S. S. Republic, N. 41° 34′, W. 65° 55′†	30.37	771.4	64	17.8	89	wsw.			4		0			0	0	sm'h		d clouds.
WILSON LINE.																		
S. S. Romano, N. 47° 51′ W. 15° 35′	29.74	755.4	65	18.3		sw.			3		10					mod.	w.	dense fog.
S. S. Salerno, N. 46° 49′, W. 42° 53′*	29.66	753.4	58	14.4		nw.			7		9		nw.	0	0	h'vy	nw.	overcast
WINSOR LINE.																		
S. S. Aries, N. 41° 10′, W. 72° 28′*†	30.20	767.1				wsw.			5		2			0	0	short	sw.	
S. S. Catherine Whiting, Barnegat, N. J.†	30.24	768.1	76	24.4		se.			1		0			0	0	light	ese.	
MISCELLANEOUS.																		
Bg. Abbie Clifford, N. 40° 45′, W. 68° 10′†	30.36	771.1	63	17.2		sw.			3		hz			0	0	mod.	e.	fine.
Schr. Ajax, N. 33° 12′ W. 79° 05′†	30.21	767.3				calm			0		4		w.	0	0	sm'h	s.	hazy.
Bk. Adelaide, N. 9° 24′, W. 42° 07′*†	29.98	761.5	82	27.8		s.			4		10		s.	1 h'r	1 h'r	long	sse.	raining.
Sch. Anna A. Holton, N. 23° 00′ W. 86° 08′†	30.01	762.2	88	31.1		se.			3		0			0	0	mod.	e.	clear.
Bk. Anna Thorman, S. 6° 06′, E. 108° 36′	29.87	758.8	81.9	27.7	84	ene.			4		0			0	0			clear.
S. S. Antonio Lopez, Santander, Spain*	30.03	762.7	71.5	21.9	69	w.			1		7			0	0	sm'h		fair.
Schr. Asa Eldridge, Key West, Fla†	30.12	765.0				se.			3		5		ssw.	1 h'r	1 h'r			squally.
Bk. Aureola, N. 26° 17′, W. 63° 07′*†	30.23	767.8	93?	33.9?		nne.			1		6		calm	0	0	light	n.	fair.
Bk. B. F. Watson, S. 2° 52′, W. 30° 40′†	30.00	762.0	78	25.6		se.			5		5		se.	0	0	mod.	se.	fair.
Bk. Bremen, N. 42° 08′. W. 57° 27*†	30.22	767.6				w.			4		0			0	0	light	ne.	hazy.
S. S. Burswell, N. 33° 15′, W. 54° 25′*†	30.09	764.3	79	26.1		n.			2		10		calm	2 h'r	2 h'r	str'g	nnw.	overcast
Bk. Cato, Hudiksvall, Sweden*†	29.90	759.4				n.			4									cloudy.
Bk. Celestina, N. 40° 07′ W. 33° 06′*†	29.93	760.2				sw.			4		2		wsw.	0	0	high	wsw.	hazy.
S. Dora, S. 39° 40′ W. 12° 00′†	29.65	753.1	64.4	18.0		wsw.			6		9 n		nnw.	6 h'r	6 h'r	high	nw.	squally.
Schr. Edith R. Seward, Newport News, Va*†	30.20	767.1	78	25.6		se.			1		7		s.	1 h'r	1 h'r			cloudy.
S. E. J. Spicer, Gravesend, Eng*	29.95	760.7	63	17.2		sw.			5		8		sw.	6 h'r	6 h'r			
Bk. E. L. Pettingill, N. 42° 12′, W. 139° 52′†	30.40	772.1				se.			2		8		se.	0	0	sm'h	sw.	cloudy.
S. Enoch Train, Bremerhaven, Germany†	30.15	765.8				wnw.			6		9		wnw.					heavy rain
Bk. Essex, Aden, Arabia*†	29.75	755.6	93	33.9		ssw.			6				sw.	0	0			hazy .
Bk. Franklin, Stettin, Prussia*†	30.22	767.6				w.			4					0	0			fair.
Bk. Freya, N. 50° 38′, W. 10° 45′			61	16.1		ssw.			3		10			0	0	mod.	sw.	foggy.
S. Glendon, N 26° 12′, W. 45° 35′†	30.11	764.8	86	30.0		e.			3		8		e.	0	0	sm'h		fair
Bk. Godfrey, N. 9° 40′, W. 27° 11′	30.01	762.2	78.6	25.9	93	w.			4–5		6			light	light	mod'	s;e.	fair.
S. Grecian, N. 0° 40′, E. 106° 30′*†	29.87	758.7	84	28.9		s.			5		1		s.	0	0	sm'h		clear.
Bk. Gronsvaer, N. 3° 40′, W. 13° 00′†	29.98	761.5	76.5	24.7		s.			3–5		3		s.	0	0	3	s.	fair.
Bk Hattie G. McFarland, Chesapeake Bay*†	30.30	769.6	67	19.4		ese.			3		10		ese.	6 h'r	6 h'r			stormy.
Schr. Henry Denison, Gracias a Dios Cape, C. A*†	30.07	763.8				e.			6		7			shr's	shr's	r'gh	e.	fair.
Bk. Horace Scudder, N. 28° 49′, W. 67° 48′†	30.24	768.1	80	26.7		nnw.			3				n.	0	0	short	n.	
S. Ivy, S. 46° 16′ W. 40° 24′†	30.31	769.9	46	7.8		wnw.			6		4		nw.	0	0	r'gh	wsw.	hazy.
S. Ismir, N. 18° 56′ E. 118° 00′†	29.87	758.7				ne.			2		1		ne.	0	0			fine.
Schr. John L. Thomas, Vivorilla Cay, Mosquito coast*†	30.04	763.0				ene.			3		10		e.	½ h'r	½ h'r			threatening.
Bk. Joseph A. Ropes, Tamatave, W. I*†	30.17	766.3	76	24.4	80	sse.			4		7		sse.	2 h'r	2 h'r			cloudy.
Bkt. Josephine, N. 27° 00′, W. 79° 42′†	30.09	761.3	86	30.0	79	se.			3		8			0	0	sm'h		cloudy.
Bkt. Kryolith, N. 39° 13′ W. 71° 22′*†	30.27	768.8				wsw.			1		8		sw.	0	0	sm'h		overcast.
Light House Tender, Laurel, Key West, Florida†	30.09	764.3	84	28.9		se.			2		6		se.	3 h'r	3 h'r			threatening
S. S. Madrid, N. 41° 02′, W. 65° 18*†	30.38	771.6	64	17.8		wnw.			3		0			0	0	sm'h		clear.
Schr. Maggie Abbott, N. 19° 26′, W. 72° 43′†	30.01	762.2									2			0	0			
S. M. P. Grace, N. 11° 22′, W. 116° 36′*	29.86	758.4	81	27.2					3					rain	rain	long	sse.	
Bk. National Eagle, Antwerp, Belgium†	29.86	758.4				wsw.			4		4		s.	0	0			
S. S. Nebo, N. 37° 11′, W. 72° 52′*†	30.00	762.0				ssw.			2		3		w.	0	0	long	e.	clear.
Schr. Ocean Traveller, St. Croix, W. I†	29.97	761.2				ene.			5				ene.			mod.		showery.
S. Oracle, N. 26° 53′, W. 42° 09′*	30.16	766.1	81	27.2	95	sse.					2 ks					mod.	ese.	clear.
S. Orealla, S. 4° 48′, W. 26° 40′*	29.97	761.2				se.			4		8		se.	0	0	mod.	sse.	cloudy.
S. St. Francis, N. 11° 20′, W. 31° 37′†	29.95	760 7	84	28.9		s.			2		4		sw.	0.5	13.	long	sw.	fine.
Schr. S. B. Hubbard, Gardiner, Me†	30.16	766.1	70	21.1		calm			0		0			0	0			fine.
Bk. Sunbeam, N. 38° 42′, W. 9° 05′†	30.08	764.0	86	30.0	68	calm			0					0	0			clear.
S. S. Sunbeam, Swansea, Wales	29.91	759.7	54.5	12.5	98	se.			3		10		se.					heavy rain.
S. Sovereign of the Sea, S. 55° 08′, W. 85° 13′*†	29.52	749.8	41	5.0	91	wsw.			3		5		w.	4 h'r	4 h'r	sm'h	wnw.	cloudy.
U. S. F. C. S. S. FishHawk, Wood's Holl, Mass†	30.38	771.6	63	17.2	88	sw.			2		4		calm	0	0			clear.
Schr. Victor Ping, Santa Marta, U. S. C.						ne.			3		3		ne					fair.
Schr. Viola Reppard, N. 32° 16′, W 79° 49′†	30.07	763.8	82	27.8		calm			0		6		sw.	2 h'r	2 h'r			cloudy.
Bg. Wauburn, N. 39° 14′, W. 74° 00′*†	30.10	764.5				ese.			4		3		ese.			sm'h		
Bk. Warden Law N. 27° 00′, W. 25° 58′*	30.14	765.5				nne.			2				ne.	0	0	sm'h	ne.	fair.
S. Wm. Woodbury, N. 53° 46′ W. 26° 31′*	29.39	746.5	58	14.4	87	wsw.			2		4		w.			long	se.	foggy.

International Chart I. August 31, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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

SUMMARY AND REVIEW

OF

INTERNATIONAL METEOROLOGICAL OBSERVATIONS,

AUGUST, 1882.

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Result of Simultaneous Observations for August, 1882. Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	O	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
ALGERIAN.	° ′	° ′																								
Nemours	N. 35 06	W. 1 50	0.00 m.	13	4	.....	.....	30.04	763.1	80.8	27.1	76.5	.....	.....	1	6	21	3	.....	.....	.....	.....	.....	2	0	0
Algiers	N. 36 47	E. 3 05	0.20 p.m.	72	22	.....	.....	30.04	763.0	80.2	26.8	63.8	11	5	1	.....	1	.....	1	12	.....	.....	.....	1	0.34	8.5
La Calle	N. 36 54	E. 8 26	0.42 p.m.	36	11	.....	.....	30.02	762.5	84.2	29.0	64.5	11	7	.....	3	1	.....	2	7	.....	.....	.....	2	0.16	4.0
Tunis	N. 36 42	E. 10 13	0.49 p.m.	46	14	.....	.....	30.02	762.4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Saida	N. 34 51	E. 0 10	0.09 p.m.	2844	867	.....	.....	30.08	764.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tebessa	N. 35 24	E. 8 06	0.40 p.m.	2890	881	.....	.....	30.08	764.0	83.5	28.6	26.5	10	3	7	4	3	2	.....	2	.....	.....	.....	1	0.05	1.3
Gerlville	N. 33 45	E. 1 10	0.13 p.m.	4285	1306	.....	.....	.....	.....	91.8	33.2	9.3	3	10	8	4	3	2	1	.....	.....	.....	.....	2	0.26	6.5
Laghouat	N. 33 48	E. 2 53	0.20 p.m.	2559	780	.....	.....	30.10	764.6	98.4	36.9	30.9	4	.....	3	3	3	5	8	5	.....	.....	.....	1	inap.	inap.
Biskra	N. 34 51	E. 5 41	0.31 p.m.	410	125	.....	.....	30.10	764.4	96.8	36.0	27.3	1	14	.....	5	.....	9	.....	.....	2	.....	.....	1	inap.	inap.
AUSTRALIAN.																										
Melbourne	S. 37 50	E. 144 58	9.47 p.m.	91	28	29.95	760.7	30.04	763.0	49.0	9.4	86	11	4	4	3	2	3	.....	.....	4	.....	.....	6	2.12	53.9
AUSTRO-HUNGARIAN.																										
Agram	N. 45 48	E. 15 53	1.12 p.m.	536	163	29.39	746.5	29.92	760.0	71.6	22.0	61.3	.....	4	2	8	.....	6	4	7	.....	.....	.....	5	5.54	140.8
Cracow	N. 50 04	E. 20 00	1.28 p.m.	722	220	29.09	738.9	29.84	757.9	65.3	18.5	70.1	2	1	15	8	1	.....	4	.....	.....	.....	.....	8	8.27	210.1
Eperies	N. 48 58	E. 21 15	1.33 p.m.	820	250	29.00	736.5	29.84	757.9	62.8	17.1	80.7	1	7	.....	.....	6	.....	.....	.....	17	.....	.....	8	8.72	221.6
Gratz	N. 47 04	E. 15 28	1.10 p.m.	1171	357	28.70	729.0	29.91	759.8	68.2	20.1	76.9	.....	8	6	7	5	3	.....	2	.....	.....	.....	6	5.82	147.7
Hermannstadt	N. 45 47	E. 24 13	1.45 p.m.	1352	412	28.48	723.4	29.84	758.0	72.7	22.6	61	.....	12	10	1	3	4	1	.....	.....	.....	.....	5	3.96	100.5
Kremsmünster	N. 48 03	E. 14 08	1.04 p.m.	1260	384	28.64	727.5	29.95	760.7	63.0	17.2	74.6	2	7	8	4	.....	2	1	2	5	.....	.....	8	6.47	164.4
Lemberg	N. 49 50	E. 24 00	1.44 p.m.	978	298	28.87	733.4	29.83	757.6	68.7	20.4	65.3	.....	8	.....	5	3	4	3	8	.....	.....	.....	6	4.40	111.7
Pola	N. 44 52	E. 13 51	1.04 p.m.	105	32	29.82	757.5	29.93	760.1	84.6	29.2	58.1	1	.....	7	7	5	8	1	2	.....	.....	.....	6	2.29	58.2
Szathmar	N. 47 46	E. 22 53	1.39 p.m.	430	131	29.38	746.2	29.84	757.9	72.7	22.6	59	5	4	8	8	2	3	1	.....	.....	.....	.....	5	4.34	110.1
Szegedin	N. 46 15	E. 20 10	1.29 p.m.	256	78	29.62*a*	752.4*a*	29.90*a*	759.4*a*	71.8*b*	22.1*b*	64.4*a*	.....	4	7	7	7	.....	.....	1	5	.....	.....	5	2.32	58.8
Trieste	N. 45 39	E. 13 46	1.04 p.m.	85	26	29.85	758.1	29.95	760.7	77.0	25.0	50.8	...0	.....	3	3	.....	1	1	3	5	.....	.....	5	5.72	145.4
Vienna	N. 48 12	E. 16 22	1.14 p.m.	663	202	29.24	742.8	29.95	760.6	66.4	19.1	64.6	.....	8	16	.....	.....	4	2	.....	.....	.....	.....	7	3.56	90.4
BRITISH.																										
Aberdeen	N. 57 10	W. 2 06	0.00 m.	89	27	29.68	753.9	29.78	756.4	61.3	16.3	69.0	2	6	7	.....	7	7	1	1	.....	.....	.....	6	2.12	53.8
Armagh	N. 54 21	W. 6 39	11.42 a.m.	207	63	29.67*a*	753.6*a*	29.89*a*	759.2*a*	60.5*a*	15.8*a*	79.4*a*	1	9	6	7	6	1	1	.....	.....	.....	.....	8	.....	.....
Bidston	N. 53 24	W. 3 04	11.56 a.m.	197	60	.....	.....	29.88	758.9	60.5	15.8	73.7	.....	1	19	3	2	5	1	.....	.....	.....	.....	8	.....	.....
Bolton	N. 53 35	W. 2 28	11.58 a.m.	500	152	29.32	744.7	29.85	758.2	60.8	16.0	76.4	.....	4	11	6	5	3	2	.....	.....	.....	.....	8	.....	.....
Bradford *d*	N. 53 48	W. 1 47	0.01 p.m.	366	111	29.45	748.0	29.84	757.9	54.8	12.7	55.8	1	15	5	1	1	4	.....	.....	.....	.....	.....	7	1.64	41.7
Bridgetown	N. 13 04	W. 59 37	8.10 a.m.	28	9	29.98	761.5	30.01	762.2	83.5	28.6	74.5	.....	.....	.....	.....	.....	7	1	23	.....	.....	.....	4	.....	.....
Cardington	N. 52 08	W. 0 27	0.06 p.m.	109	33	.....	.....	29.88	758.9	66.5	19.2	72.8	5	9	9	4	2	1	1	.....	.....	.....	.....	7	.....	.....
Chatham	N. 51 25	E. 0 33	0.10 p.m.	120	37	29.80	756.9	29.92	760.0	64.5	18.1	70.4	.....	6	7	9	2	1	3	2	1	.....	.....	8	.....	.....
Falmouth	N. 50 09	W. 5 04	11.48 a.m.	211	64	29.77	756.1	29.99	761.7	63.1*a*	17.3*a*	73.4*a*	.....	5	9	5	3	7	1	1	.....	.....	.....	7	.....	.....
Fort Napier	S. 30 00	E. 31 00	2.12 p.m.	2200	671	27.77	705.3	29.98	761.5	71.9	22.2	36.1	3	4	.....	1	.....	4	9	3	7	.....	.....	2	.....	.....
Free Town	N. 8 30	W. 13 14	11.15 a.m.	224	68	29.71	754.6	29.94	760.5	80.8	27.1	77.6	.....	6	13	11	1	.....	.....	.....	.....	.....	.....	6	.....	.....
Gibraltar	N. 36 09	W. 5 21	11.47 a.m.	50	15	30.00	762.0	30.05	763.3	78.9	26.1	80.3	.....	2	10	3	.....	1	13	2	.....	.....	.....	1	.....	.....
Glasgow	N. 55 53	W. 4 17	11.51 a.m.	184	56	29.60	751.8	29.81	757.2	61.5	16.4	69.9	1	2	13	9	1	.....	3	2	.....	.....	.....	6	.....	.....
Greenwich	N. 51 29	0 00	0.08 p.m.	159	48	29.74	755.4	29.91	759.7	64.7	18.2	68.4	3	7	5	9	3	1	2	1	.....	.....	.....	8	.....	.....
Guernsey	N. 49 27	W. 2 41	11.58 a.m.	275	84	29.72	754.9	30.01	762.2	63.8	17.7	75.7	4	4	12	5	2	1	1	2	.....	.....	.....	5	.....	.....
Kew	N. 51 28	W. 0 19	0.07 p.m.	34	10	29.89	759.2	29.92	760.0	64.5	18.1	62.6	1	5	10	5	2	1	4	3	.....	.....	.....	8	.....	.....
Leicester	N. 52 39	W. 1 08	0.04 p.m.	245	75	29.63	752.6	29.87	758.7	63.6	17.6	68.8	2	9	4	9	4	1	.....	2	.....	.....	.....	8	.....	.....
Malta	N. 36 00	E. 14 30	1.06 p.m.	70	21	29.89	759.2	29.97	761.2	80.8	27.1	74.5	3	10	6	2	.....	1	1	8	.....	.....	.....	2	.....	.....
Nassau	N. 25 04	W. 77 22	6.58 a.m.	44	13	30.09	764.3	30.13	765.3	84.5	29.2	72.1	2	1	2	2	.....	15	3	6	.....	.....	.....	6	.....	.....
Oscott *d*	N. 52 28	W. 1 55	0.00 m.	483	147	29.41	747.0	29.92	760.0	61.4	16.3	77.6*e*	.....	8	5	5	6	.....	1	2	.....	.....	.....	8	.....	.....
Oxford	N. 51 46	W. 1 17	0.03 p.m.	210	64	29.68	753.9	29.91	759.7	63.3	17.4	69.5	2	1	9	9	4	2	.....	3	1	.....	.....	7	.....	.....
Plymouth	N. 50 22	W. 4 10	11.51 a.m.	69	21	29.90	759.4	29.98	761.5	65.8	18.8	71.8	1	7	6	6	5	3	3	.....	.....	.....	.....	7	.....	.....
Sandwick Manse	N. 59 05	W. 3 20	11.54 a.m.	94	29	.....	.....	29.76	755.9	57.8	14.3	82.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	.....
Scutari Cemetery	N. 41 00	E. 29 03	2.04 p.m.	60	18	29.76	755.9	29.82	757.4	85.1	29.5	47.9	4	.....	.....	4	1	.....	.....	22	.....	.....	.....	3	.....	.....
Sheffield	N. 53 23	W. 1 28	0.02 p.m.	260	79	29.60	751.8	29.87	758.7	66.4	19.1	68.2	1	5	7	8	4	1	.....	5	.....	.....	.....	6	1.63	41.4
Sidloth Rectory	N. 54 52	W. 3 22	11.54 a.m.	28	9	29.80	756.9	29.83	757.7	63.3	17.4	73.6	1	7	7	10	3	1	1	.....	1	.....	.....	6	2.64	67.1
Stonyhurst	N. 53 51	W. 2 28	11.58 a.m.	361	110	.....	.....	29.88	758.9	60.9	16.1	70.5	1	.....	17	7	2	2	1	1	.....	.....	.....	8	.....	.....
Stratfield Turgiss	N. 51 17	W. 0 53	0.04 p.m.	197	60	.....	.....	.....	.....	65.5	18.6	69.7	.....	9	8	6	3	2	1	2	.....	.....	.....	7	.....	.....
Truro	N. 50 16	W. 5 04	11.53 a.m.	43	13	29.98	761.5	29.99	761.7	67.9	19.9	70.3	2	10	6	8	2	1	2	.....	.....	.....	.....	7	.....	.....
Valencia	N. 51 55	W. 10 18	11.27 a.m.	23	7	29.95	760.7	29.98	761.5	61.6	16.4	80.3	.....	8	10	6	4	2	1	.....	.....	.....	.....	7	.....	.....
CANADIAN.																										
Bathurst *d*	N. 47 39	W. 65 43	7.45 a.m.	80	24	.....	.....	.....	.....	64.7	18.2	.....	.....	.....	9	.....	.....	.....	5	.....	13	.....	.....	5	1.54	39.1
Charlottetown	N. 46 14	W. 63 10	7.55 a.m.	38	12	29.92	760.0	29.96	761.0	63.1	17.3	81.7	6	3	7	5	5	3	.....	1	1	5724	9212	5	2.35	59.7
Chatham	N. 47 03	W. 65 29	7.45 a.m.	56	17	29.92	760.0	29.98	761.5	59.0	15.0	88.8	2	4	3	5	7	3	3	2	2	2465	3967	5	2.93	74.4
Cornwall	N. 45 01	W. 74 43	7.09 a.m.	175	53	29.79	756.7	29.98	761.5	61.5	16.4	91.0	1	6	5	9	.....	2	6	2	.....	.....	.....	6	2.68	68.1
Dalhousie *e*	N. 48 04	W. 66 21	7.32 a.m.	35	11	29.79	756.7	29.95	760.7	60.0	15.6	.....	.....	.....	22	.....	...	.....	4	.....	2	.....	.....	4	1.92	48.8
Father Point	N. 48 31	W. 68 28	7.34 a.m.	20	6	29.94	760.5	29.96	761.0	55.1	12.8	87.0	.....	4	11	7	.....	.....	.....	2	7	8312	13377	6	2.93	74.4
Fort Garry	N. 49 51	W. 97 07	5.39 a.m.	754	230	29.17	740.9	29.98	761.5	59.3	15.2	92.1	5	3	5	1	3	8	1	1	4	6001	9657	3	1.35	34.3
Fredericton	N. 45 57	W. 66 39	7.41 a.m.	59	18	29.95	760.7	30.02	762.5	60.0	15.6	82.8	.....	7	5	.....	2	6	1	4	6	.....	.....	4	3.54	89.9
Granton	N. 43 12	W. 81 21	6.43 a.m.	1015	309	28.94	735.1	30.00	762.0	61.3	16.3	98.5	3	4	3	1	2	4	2	.....	12	.....	.....	6	2.59	65.8
Halifax	N. 44 39	W. 63 36	7.53 a.m.	122	37	29.87	758.7	29.99	761.7	61.9	16.6	80.2	4	7	9	2	4	1	2	.....	2	.....	.....	5	3.93	99.8
Hamilton	N. 43 16	W. 79 53	6.49 a.m.	338	103	29.61	752.1	29.99	761.7	65.8	18.8	90.0	.....	3	4	10	.....	2	3	8	1	.....	.....	7	4.64	117.9
Kingston	N. 44 14	W. 76 30	7.02 a.m.	307	94	29.69	754.1	30.01	762.2	66.3	19.1	87.8	2	2	4	9	5	1	3	2	3	3421*b*	5506*b*	8	2.51	63.8
Little Glace Bay	N. 46 12	W. 59 58	8.08 a.m.	34	10	29.90	759.4	29.95	760.7	65.0	18.3	80.0	2	1	4	13	5	.....	4	2	.....	.....	.....	7	3.48	88.4
Montreal	N. 45 31	W. 73 33	7.13 a.m.	187	57	29.81	757.2	30.01	762.2	65.0	18.3	78.1	2	4	14	.....	2	2	1	6	.....	.....	.....	5	2.52	64.0
Parry Sound	N. 45 19	W. 80 01	6.48 a.m.	635	194	29.33	745.0	30.00	762.0	62.4	16.9	89.6	3	.....	1	1	4	5	7	8	2	5382	8661	6	2.74	69.6
Peterboro	N. 44 17	W. 78 20	6.54 a.m.	688	210	29.30	744.2	30.01	762.2	66.1	18.9	80.7	.....	.....	5	.....	.....	2	2	4	18	.....	.....	4	1.43	36.3
Port Dover	N. 42 47	W. 80 13	6.47 a.m.	635	194	29.34	745.2	29.98	761.5	64.2	17.9	96.1	4	1	2	4	2	1	4	4	9	3905	6284	7	3.31	84.1
Port Stanley	N. 42 40	W. 81 13	6.43 a.m.	592	180	29.37	746.0	30.00	762.0	64.1	17.8	90.4	.....	2	8	4	.....	3	9	4	1	.....	.....	7	4.22	107.2
Quebec	N. 46 48	W. 71 12	7.23 a.m.	293	89	29.69	754.1	30.00	762.0	59.7	15.4	84.3*a*	3	3	7	.....	.....	5	4	9	.....	.....	.....	4	5.91	150.1
Rockliffe	N. 46 10	W. 77 48	6.57 a.m.	418	127	29.56	750.8	30.01	762.2	60.1	15.6	88.1	5	3	7	.....	1	3	2	.....	10	.....	.....	6	3.53	89.7
Saint Andrews	N. 43 04	W. 81 06	6.34 a.m.	47	14	29.94	760.5	29.99	761.7	58.4	14.7	86.0	4	4	2	2	1	2	1	3	12	.....	.....	5	1.61	40.9
Saint John, N. B.	N. 45 17	W. 66 03	7.44 a.m.	150	46	29.83	757.7	30.00	762.0	58.4	14.7	85.6	3	1	1	14	2	1	3	6	.....	.....	.....	3	1.89	48.0
Saint Pierre	N. 46 47	W. 56 08	8.24 a.m.	?	?	.....	.....	29.85	758.2	60.0	15.6	.....	.....	2	4	10	1	3	4	5	2	.....	.....	.....	4.11	104.4
Saugeen	N. 44 30	W. 81 21	6.42 a.m.	656	200	29.29	744.0	29.98	761.5	63.1	17.3	86.8	2	.....	.....	4	3	11	7	2	2	5144	8278	6	1.82	46.2
Stratford	N. 43 23	W. 81 00	6.44 a.m.	1182	360	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sydney	N. 46 08	W. 60 10	8.07 a.m.	37	11	29.90	759.4	29.96	761.0	62.4	16.9	84.2	3	3	5	11	4	.....	1	4	.....	7058	11359	8	5.48	139.2
Toronto	N. 43 39	W. 79 23	6.50 a.m.	350	107	29.65	753.1	30.02	762.5	64.1	17.8	89.3	5	.....	4	5	1	1	2	7	6	5975	9616	7	2.52	64.0
Windsor	N. 44 59	W. 63 58	7.53 a.m.	87	26	29.83	757.7	29.92	760.0	65.0	18.3	84.6	8	1	1	7	3	3	.....	1	7	.....	.....	4	0.91	23.1
Woodstock	N. 43 08	W. 80 47	6.48 a.m.	980	299	28.95	735.3	29.98	761.5	63.8	17.7	91.2	4	3	3	6	3	1	4	6	1	.....	.....	7	3.54	89.9
Yarmouth	N. 43 50	W. 66 02	7.44 a.m.	61	19	29.95	760.7	30.02	762.5	57.6	14.2	93.3	1	4	4	8	3	1	.....	4	6	3684	5929	6	0.63	16.0
Sub-Series.																										
Mt. Forrest	N. 44 01	W. 80 54	6.44 a.m.	1375	419	28.64	727.4	30.04	763.0	60.2	15.7	93.2	...*b*	5	9	7	1	5	1	.....	1	.....	.....	9	.....	.....
St. Johns, N. F.	N. 47 34	W. 52 42	8.37 a.m.	230	70	29.94?	760.5?	30.19?	766.8?	61.5	16.4	88.6	4	.....	1	14	1	4	.....	7	.....	.....	.....	6	4.83	122.7
CAPE COLONY																										
Cape St. Francis	S. 34 10	E. 24 50	1.47 p.m.	25	7	30.18	766.6	30.21	767.3	64.3	17.9	76.2	.....	1	9	8	.....	3	3	5	2	.....	.....	4	1.94	49.3
Cape Town	S. 34 02	E. 18 29	1.22 p.m.	27	8	30.14	765.5	30.17	767.3	65.8	18.8	66.5	.....	11	3	3	5	9	.....	.....	.....	.....	.....	4	2.47	62.7

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Result of Simultaneous Observations for August, 1882. Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
CHINESE.	° ′	° ′																								
Sub Series.																										
Zi-Ka-Wei	N. 31 12	E. 121 26	8.14 p.m.	23	7	29.75	755.7	29.78	756.4	75.6	24.2	90.1	3	4	1	2	.....	4	11	5	1	.....	.....	4	8.08	205.2
DANISH.																										
Copenhagen	N. 55 41	E. 12 36	0.58 p.m.	43	13	29.67	753.6	29.72	754.8	64.6	18.1	71	5	6	3	5	8	3	.....	1	.....	.....	.....	7	.....	.....
Fanöe	N. 55 27	E. 8 24	0.42 p.m.	20	6	29.72	754.8	29.74	755.3	63.9	17.7	77	.....	7	13	7	1	3	.....	.....	.....	.....	.....	6	.....	.....
Godthaab	N. 64 11	W. 51 46	8.41 a.m.	36	11	29.81	757.2	29.85	758.3	41.0	5.0	91	3	.....	1	6	9	.....	.....	9	3	.....	.....	8	1.14	28.9
Ivigtut	N. 61 12	W. 48 00	8.56 a.m.	16	5	29.84	757.8	29.85	758.3	43.2	6.2	.....	.....	8	4	.....	.....	1	.....	.....	18	.....	.....	9	.....	.....
Stykkisholm	N. 65 05	W. 22 46	10.37 a.m.	36	11	29.72	754.8	29.76	755.9	45.1	7.3	83	.....	1	2	2	.....	4	14	6	2	.....	.....	7	.....	.....
Thorshavn	N. 62 02	W. 6 44	11.41 a.m.	29	9	29.66	753.4	29.70	754.3	54.5	12.5	84	6	2	3	6	3	3	2	1	5	.....	.....	8	.....	.....
Vestervig	N. 56 47	E. 8 20	0.41 p.m.	82	25	29.61	752.1	29.70	754.4	62.8	17.1	79	1	9	7	5	1	6	.....	.....	2	.....	.....	6	.....	.....
FRENCH.																										
Agen	N. 44 12	E. 0 38	0.11 p.m.	604	184	29.47	748.5	30.09	764.2	72.3	22.4	63.2	1	9	8	3	3	3	2	2	.....	.....	.....	.....	1.12	28.5
Alençon	N. 48 26	E. 0 05	0.09 p.m.	476	145	29.50	749.2	30.05	763.3	66.4	19.1	76.1	5	2	2	13	6	1	.....	2	.....	.....	.....	.....	3.39	86.
Arras	N. 50 18	E. 2 46	0.19 p.m.	239	73	29.71	754.6	29.96	761.0	64.0	17.8	75.4	3	4	6	6	3	4	1	4	.....	.....	.....	.....	1.41	35.9
Avignon	N. 43 57	E. 4 48	0.27 p.m.	65	20	29.91	759.8	29.99	761.8	80.1	26.7	51.7	21	2	3	1	2	.....	1	1	.....	.....	.....	3	0.84	21.4
Bar-sur-Seine	N. 48 07	E. 4 22	0.25 p.m.	518	158	29.48	748.8	30.02	762.5	67.8	19.9	57	1	2	3	9	6	3	1	6	.....	.....	.....	8	1.57	39.9
Beauvais	N. 49 26	E. 2 05	0.16 p.m.	246	75	29.74	755.3	30.00	761.9	66.6	19.2	64.3	1	4	9	4	4	3	2	4	.....	.....	.....	8	3.05	77.4
Besançon	N. 47 14	E. 6 02	0.32 p.m.	846	258	29.10	739.0	29.96	761.0	68.7	20.4	78.7	4	1	.....	6	13	1	.....	6	.....	.....	.....	5	3.65	92.6
Bordeaux	N. 44 50	E. 0 32	0.06 p.m.	243	74	29.81	757.2	30.07	763.7	72.7	22.6	58.3	2	5	9	6	1	2	1	5	.....	.....	.....	6	2.24	56.9
Bourges	N. 47 10	E. 2 26	0.17 p.m.	510	156	29.48	748.8	30.02	762.5	68.7	20.4	61.9	4	3	4	10	5	2	.....	3	.....	.....	.....	.....	4.16	105.7
Brest	N. 48 24	W. 4 30	11.50 a.m.	210	64	29.83	757.6	30.07	763.8	68.4	20.2	70.9	1	1	10	8	2	1	1	7	.....	.....	.....	6	2.49	63.3
Caen	N. 49 11	W. 0 21	0.07 p.m.	69	21	29.92	759.9	29.99	761.8	56.5	13.6	83.1	.....	4	15	6	1	1	.....	4	.....	.....	.....	6	1.79	45.5
Châlons-sur-Marne	N. 48 57	E. 4 21	0.25 p.m.	294	90	29.66	753.3	29.97	761.2	68.4	20.2	71.4	1	2	6	12	2	.....	1	3	4	.....	.....	5	2.83	72.0
Charleville	N. 49 46	E. 4 49	0.27 p.m.	476	145	29.46	748.3	29.96	761.0	66.2	19.0	63.4	4	5	12	2	3	1	.....	4	.....	.....	.....	8	3.72	94.6
Clermont-Fd	N. 45 46	E. 3 05	0.20 p.m.	1273	388	28.71	729.3	30.02	762.6	71.2	21.8	54.1	7	1	8	5	1	1	5	3	.....	.....	.....	2	1.86	47.2
Cluny	N. 46 26	E. 4 39	0.27 p.m.	787	240	29.22	742.2	30.05	763.3	70.0	21.1	55.2	1	7	4	6	4	.....	.....	9	.....	.....	.....	7	2.67	67.8
Commercy	N. 48 46	E. 5 35	0.30 p.m.	797	243	28.19	716.1	30.00	761.9	65.8	18.8	79.2	1	5	17	5	.....	1	1	1	.....	.....	.....	.....	2.56	65.0
Gap	N. 44 33	E. 6 05	0.32 p.m.	2424	739	27.55	699.7	29.87	758.8	74.7	23.7	39.1	23	.....	.....	.....	6	.....	.....	1	1	.....	.....	.....	0.32	8.2
Gréasque	N. 43 25	E. 5 37	0.31 p.m.	1056	322	28.90	734.0	29.97	761.2	79.7	20.5	39.3	1	.....	.....	.....	1	18	10	1	.....	.....	.....	2	0.79	20.1
Grenoble	N. 45 12	E. 5 43	0.31 p.m.	715	218	29.19	741.4	29.93	760.3	71.1	21.7	64.9	2	14	1	1	.....	1	4	8	.....	.....	.....	.....	1.93	49.1
Lamballe	N. 48 28	W. 2 31	11.58 a.m.	252	77	.....	.....	.....	.....	68.2	20.1	63.1	1	11	10	4	.....	1	2	2	.....	.....	.....	4	0.95	24.1
Lescar	N. 43 20	W. 0 26	0.06 p.m.	525	160	29.49	749.1	30.04	763.1	73.0	22.8	61.8	5	.....	16	4	.....	.....	4	2	.....	.....	.....	5	4.60	116.8
Lorient	N. 47 45	W. 3 21	11.55 a.m.	86	26	29.98	761.4	30.08	764.0	68.7	20.4	74.0	3	1	9	6	4	1	1	6	.....	.....	.....	7	1.93	49.0
Lyon	N. 45 41	E. 2 30	0.25 p.m.	981	299	29.01	736.9	30.04	763.1	70.9	21.6	51.9	8	5	5	1	5	5	.....	2	.....	.....	.....	5	1.04	26.4
Mans	N. 48 01	E. 0 12	0.09 p.m.	285	87	29.74	755.4	30.04	763.1	67.5	19.7	67.8	2	5	11	3	1	1	2	5	1	.....	.....	7	1.34	34.1
Marseille	N. 43 18	E. 5 23	0.29 p.m.	246	75	29.71	754.7	29.98	761.4	77.9	25.5	45.4	.....	7	14	6	3	.....	1	.....	.....	.....	.....	.....	0.25	6.3
Mont-Louis	N. 42 30	E. 2 07	0.16 p.m.	5203	1586	24.98	634.0	29.83	757.6	68.4	20.2	49.0	3	2	4	3	4	4	2	.....	.....	.....	.....	.....	2.19	55.7
Montpellier	N. 43 37	E. 3 53	0.24 p.m.	118	36	29.86	758.5	29.98	761.6	78.8	26.0	62.2	6	.....	.....	.....	3	13	7	1	1	.....	.....	0	0.08	2.1
Nancy	N. 48 42	E. 6 11	0.33 p.m.	725	221	29.21	741.9	29.97	761.3	66.9	19.4	64.8	1	4	5	10	11	.....	.....	.....	.....	.....	.....	7	1.97	50.0
Nantes	N. 47 13	W. 1 33	0.02 p.m.	134	41	29.92	759.9	30.09	764.3	70.2	21.2	60.2	4	4	8	8	1	.....	3	3	.....	.....	.....	8	1.83	46.5
Perpignan	N. 42 42	E. 2 53	0.19 p.m.	105	32	29.92	759.9	30.02	762.6	79.9	26.6	44.8	6	9	.....	2	3	7	2	2	.....	.....	.....	4	1.20	30.5
Pic du Midi (Sum-	N. 42 56	W. 0 08	0.08 p.m.	9380	2859	21.43	544.2	.....	.....	48.2	9.0	.....	3	2	7	11	3	4	.....	1	.....	.....	.....	5	2.38	60.4
Privas (mit.)	N. 44 45	E. 4 36	0.26 p.m.	997	304	29.00	736.6	30.04	762.9	72.1	22.3	51.6	15	2	1	.....	13	.....	.....	.....	.....	.....	.....	3	1.18	30.0
Puy de Dome	N. 45 46	E. 2 58	0.20 p.m.	4813	1467	25.24	641.2	.....	.....	50.0	10.0	90.5	3	2	11	6	.....	5	2	2	.....	.....	.....	3	5.69	144.5
Rochefort	N. 45 56	W. 0 58	0.04 p.m.	29	9	30.04	763.0	30.08	764.0	73.4	23.0	91.8	2	1	10	9	.....	2	1	5	1	.....	.....	5	7.52	191.0
Roche-sur-Yon	N. 46 40	W. 1 26	0.02 p.m.	198	60	29.84	758.0	30.05	763.3	70.2	21.2	67.5	2	6	14	2	2	1	3	1	.....	.....	.....	5	2.30	58.4
Rodez	N. 44 21	E. 2 34	0.18 p.m.	2050	625	27.97	710.5	30.05	763.3	68.7	20.4	62.3	1	13	9	1	.....	1	2	1	3	.....	.....	4	2.48	63.0
Rouen	N. 49 26	E. 1 05	0.12 p.m.	39	12	29.96	761.0	30.01	762.2	66.2	19.0	69.8	2	4	15	3	3	.....	.....	4	.....	.....	.....	6	6.78	172.2
Saint Maur	N. 48 48	E. 2 21	0.17 p.m.	162	49	29.84	758.0	30.01	762.2	67.5	19.7	62.0	4	5	4	10	4	2	.....	2	.....	.....	.....	3	2.32	58.9
Toulouse	N. 43 37	E. 1 27	0.14 p.m.	636	194	29.42	747.2	30.14	765.6	76.6	24.8	53.0	3	11	9	1	1	5	.....	1	.....	.....	.....	4	2.26	57.3
Tours	N. 47 24	E. 0 41	0.11 p.m.	104	50	29.86	758.4	30.04	763.0	70.5	21.4	57.5	3	2	2	19	.....	.....	.....	5	.....	.....	.....	5	1.16	29.6
Versailles	N. 48 48	E. 2 07	0.16 p.m.	445	136	29.52	749.9	30.02	762.4	66.6	19.2	03.4	6	5	6	7	2	1	.....	4	.....	.....	.....	7	3.40	86.3
Sub-Series.																										
Paris, Montsouris	N. 48 50	E. 2 20	0.17 p.m.	256	78	29.92	760.0	30.21	767.4	67.1	19.5	64.0	3	4	5	10	3	4	.....	2	.....	.....	.....	8	2.54	64.5
GERMAN.																										
Ansbache	N. 49 18	E. 10 36	0.50 p.m.	1358	414	28.54	725.0	29.96	760.9	64.0	17.8	62.5	.....	5	10	8	.....	1	.....	4	3	.....	.....	6	3.83	97.3
Bamberg	N. 49 54	E. 10 54	0.51 p.m.	787	240	29.11	739.4	29.97	761.1	65.8	18.8	63.2	1	5	10	9	2	.....	.....	2	2	.....	.....	6	3.84	97.6
Berlin	N. 52 30	E. 13 23	1.02 p.m.	164	50	29.65	753.1	29.82	757.5	67.1	19.5	61.2	2	4	7	11	2	3	2	.....	.....	.....	.....	8	2.63	66.8
Breslau	N. 51 07	E. 17 02	1.17 p.m.	482	147	29.38	740.3	29.91	759.7	60.4	19.1	60.3	.....	5	12	8	2	3	.....	.....	1	.....	.....	7	3.10	78.8
Carlsruhe	N. 49 01	E. 8 25	0.42 p.m.	404	123	29.55	750.5	29.98	761.4	67.6	19.8	63.7	1	2	2	19	.....	2	2	2	1	.....	.....	8	4.97	126.3
Cassel	N. 51 19	E. 9 28	0.46 p.m.	669	204	29.17	741.0	29.89	759.1	65.1	18.4	65.8	.....	9	7	6	7	1	1	.....	.....	.....	.....	7	3.65	92.6
Frankfort on M.	N. 50 08	E. 8 41	0.43 p.m.	338	103	29.58	751.4	29.94	760.4	68.4	20.2	64.7	1	5	3	17	3	2	.....	.....	.....	.....	.....	7	2.87	72.9
Friedrichshafen	N. 47 39	E. 9 29	0.46 p.m.	1355	413	28.60	726.3	30.00	761.9	65.7	18.7	70.4	1	1	11	9	6	2	.....	1	.....	.....	.....	6	5.92	150.4
Hamburg	N. 53 33	E. 9 58	0.48 p.m.	85	26	29.73	755.1	29.82	757.4	63.0	17.2	71.6	.....	6	6	10	5	2	1	.....	1	.....	.....	8	3.56	90.3
Kiel	N. 54 19	E. 10 04	0.48 p.m.	13	4	29.76	755.8	29.77	756.2	63.7	17.6	71.8	2	5	9	8	4	1	2	.....	.....	.....	.....	7	3.17	80.6
Leipsic	N. 51 20	E. 12 24	0.58 p.m.	390	119	29.48	748.9	29.90	759.4	65.7	18.7	65.0	.....	9	10	7	2	1	2	.....	.....	.....	.....	8	3.06	77.8
Magdeburg	N. 52 09	E. 11 37	0.54 p.m.	177	54	29.67	753.6	29.85	758.2	65.3	18.5	71.7	.....	3	10	9	5	1	3	.....	.....	.....	.....	7	2.49	63.3
Memel	N. 55 43	E. 21 07	1.32 p.m.	39	12	29.78	756.3	29.82	757.5	68.4	20.2	67.5	.....	8	4	13	4	1	1	.....	.....	.....	.....	6	.....	.....
Munich	N. 48 09	E. 11 34	0.54 p.m.	1732	528	28.20	716.3	30.06	763.6	64.4	18.0	59.8	1	16	4	2	.....	.....	.....	6	2	.....	.....	6	5.32	135.2
Neufahrwasser	N. 54 24	E. 18 40	1.25 p.m.	16	5	29.78	756.4	29.80	756.8	68.0	20.0	66.2	4	2	2	11	1	1	3	7	.....	.....	.....	6	2.27	57.7
Neustadt	N. 49 21	E. 8 08	0.41 p.m.	479	146	29.40	746.8	29.93	760.1	67.6	19.8	66.5	2	1	11	9	4	.....	1	2	1	.....	.....	6	3.30	83.8
Stuttgart	N. 48 47	E. 9 11	0.45 p.m.	833	254	29.03	737.4	29.90	759.4	67.3	19.6	61.3	8	2	14	4	.....	.....	2	1	.....	.....	.....	6	2.48	63.1
Wustrow	N. 54 21	E. 12 24	0.58 p.m.	23	7	29.78	756.3	29.80	757.0	64.0	17.8	76.0	6	1	11	7	4	2	.....	.....	.....	.....	.....	7	3.72	94.4
GREEK.																										
Athens	N. 37 58	E. 23 44	1.43 p.m.	361	110	29.49	749.1	29.86	758.4	86.7	30.4	.....	2	.....	1	14	2	1	.....	11	.....	.....	.....	4	1.89	48.1
ITALIAN.																										
Udine	N. 46 04	E. 13 13	1.01 p.m.	381	116	29.55	750.6	29.95	760.7	76.6	24.8	49	1	.....	3	5	9	3	7	1	2	.....	.....	6	5.40	137.2
Milan	N. 45 28	E. 9 11	0.45 p.m.	482	147	29.43	747.5	29.93	760.1	79.3	26.3	45	1	2	1	6	6	8	6	1	.....	.....	.....	4	3.98	101.0
Padua	N. 45 24	E. 11 53	0.56 p.m.	102	31	29.82	757.5	29.93	760.2	78.3	25.7	47	.....	1	5	2	3	7	9	4	.....	.....	.....	4	3.30	83.8
Moncalieri	N. 45 00	E. 7 41	0.39 p.m.	846	258	29.04	737.5	29.91	759.7	77.4	25.2	48	4	7	1	2	7	.....	7	3	.....	.....	.....	4	1.89	48.1
Genoa	N. 44 24	E. 8 55	0.44 p.m.	157	48	29.73	755.1	29.94	760.5	77.2	25.1	57	2	1	.....	15	3	10	.....	.....	.....	.....	.....	3	1.13	28.8
Mondovi	N. 44 23	E. 7 48	0.39 p.m.	1824	556	28.06	712.6	29.91	759.8	75.6	24.2	42	2	11	6	.....	.....	3	5	4	.....	.....	.....	1	0.01	0.2
Pesaro	N. 43 55	E. 12 53	1.00 p.m.	46	14	29.87	758.8	29.92	760.0	77.2	25.1	57	5	.....	1	3	.....	5	9	8	.....	.....	.....	4	3.13	79.4
Florence	N. 43 46	E. 11 15	0.53 p.m.	240	73	29.69	754.0	29.93	760.2	81.0	27.2	40	2	11	4	11	1	.....	.....	2	.....	.....	.....	4	3.44	87.4
Leghorn	N. 43 33	E. 10 18	0.49 p.m.	79	24	29.81	757.2	29.89	759.3	78.3	25.7	64	1	5	14	6	2	.....	.....	3	.....	.....	.....	4	0.81	20.6
Rome	N. 41 54	E. 12 29	0.58 p.m.	164	50	29.77	756.2	29.94	760.5	83.7	28.7	40	3	.....	8	17	2	.....	.....	.....	1	.....	.....	3	1.04	26.5
Lecce	N. 40 22	E. 18 12	1.21 p.m.	236	72	29.68	753.9	29.92	760.0	80.4	26.9	47	3	3	2	6	3	.....	6	8	.....	.....	.....	2	0.26	6.6
Cosenza	N. 39 19	E. 16 17	1.13 p.m.	840	256	29.08	738.7	29.93	760.3	82.9	28.3	72	.....	3	7	16	4	1	.....	.....	.....	.....	.....	3	0.42	10.8
Cagliari	N. 39 30	E. 9 00	0.45 p.m.	180	55	29.76	756.0	29.95	760.8	82.0	27.8	46	.....	15	1	.....	5	10	.....	.....	.....	.....	.....	1	0.02	0.4
Palermo	N. 38 07	E. 13 21	1.02 p.m.	236	72	29.74	755.5	29.99	761.7	81.3	27.4	50	1	7	2	.....	.....	2	19	.....	.....	.....	.....	2	0.03	0.7
Syracuse	N. 37 03	E. 15 15	1.09 p.m.	72	22	29.89	759.1	29.93	760.2	81.9	27.7	61	5	1	1	.....	6	3	2	13	.....	.....	.....	2	0	0
Sub-Series.																										
Naples	N. 40 52	E. 14 15	1.05 p.m.	489	149	29.45	748.0	29.95	760.8	81.1	27.3	54.4	.....	.....	4	18	2	5	2	.....	.....	.....	.....	3	0.30	7.6
Stelvio	N. 46 32	E. 10 25	0.50 p.m.	8343	2543	22.25	565.2	.....	.....	46.8	8.2	57.2	1	.....	9	7	1	2	6	5	.....	.....	.....	6	5.16	131.0
Valdobbia	N. 45 47	E. 7 51	0.40 p.m.	8360	2548	22.30	566.3	.....	.....	50.9	10.5	07.2	14	2	.....	.....	.....	.....	8	7	.....	.....	.....	6	2.27	57.8
INDIAN.																										
Kurachee	N. 24 47	E. 67 04	4.36 p.m.	49	15	29.61	752.0	29.66	753.2	83.2	28.4	78	.....	.....	15	16	.....	.....	.....	.....	.....	.....	.....	7	0.92	23.4
Deesa	N. 24 16	E. 72 14	4.57 p.m.	466	142	29.14	740.2	29.61	752.1	85.9	29.9	61	.....	.....	5	23	2	1	.....	.....	.....	.....	.....	6	4.52	114.8
Bombay	N. 18 54	E. 72 49	5.00 p.m.	37	11	29.71	754.6	29.75	755.6	81.5	27.5	80	.....	6	20	5	.....	.....	.....	.....	.....	.....	.....	8	3.21	81.5
Poona	N. 18 28	E. 74 10	5.05 p.m.	1849	564	27.88	708.2	29.74	755.3	76.7	24.8	70	.....	3	17	11	.....	.....	.....	.....	.....	.....	.....	9	0.93	23.6
Trichinopoly	N. 10 50	E. 78 44	5.23 p.m.	275	84	29.48	748.8	29.76	755.8	88.4	31.3	51	5	16	4	2	.....	1	1	2	.....	.....	.....	9	3.52	89.4
Bellary	N. 15 09	E. 76 57	5.16 p.m.	1455	444	28.24	717.3	29.69	754.0	85.3	29.6	53	1	9	14	5	.....	.....	.....	2	.....	.....	.....	9	0.35	8.9
Belgaum	N. 15 52	E. 74 42	5.07 p.m.	2550	777	27.24	691.9	29.80	756.8	70.9	21.6	86	.....	3	18	10	.....	.....	.....	.....	.....	.....	.....	8	6.25	158.8
Lahore	N. 31 34	E. 74 20	5.05 p.m.	732	223	28.76	730.6	29.48	748.8	92.0	33.3	59	1	1	13	3	.....	2	2	2	7	.....	.....	3	9.10	231.1
Roorkee	N. 29 52	E. 77 56	5.20 p.m.	887	270	28.62	727.0	29.50	749.3	87.5	30.8	70	2	8	6	1	.....	4	5	.....	5	.....	.....	7	10.21	259.3

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Altitude of Barometer above sea. Met'rs	Mean Barometer. Actual. Inch.	Mean Barometer. Actual. Mill.	Mean Barometer. Reduced. Inch.	Mean Barometer. Reduced. Mill.	Mean Temperature. Fah.	Mean Temperature. Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Total Movement. Kil.	Average Cloudiness. 0–10	Total Precipitation. Inch.	Total Precipitation. Mill.
INDIAN.—Cont'd.	° ′	° ′																								
Agra	N. 27 10	E. 78 05	5.20 p.m.	555	169	28.99	736.2	29.54	750.2	87.7	30.9	68	.....	3	11	5	.....	.....	5	5	2	.....	.....	5	4.44	112.8
Nagpur	N. 21 09	E. 79 11	5.24 p.m.	1025	312	28.59	726.1	29.62	752.3	84.1	28.9	65	1	7	8	4	2	.....	.....	2	7	.....	.....	8	1.85	47.0
Jubulpore	N. 23 09	E. 79 59	5.28 p.m.	1351	412	28.28	718.2	29.62	752.3	81.1	27.3	74	4	14	7	.....	2	.....	.....	.....	4	.....	.....	8	11.00	279.4
Lucknow	N. 26 50	E. 81 00	5.32 p.m.	369	113	29.18	741.1	29.55	750.5	86.6	30.3	72	.....	2	2	3	.....	.....	2	2	20	.....	.....	6	9.42	239.3
Alahabad	N. 25 26	E. 81 52	5.35 p.m.	307	94	29.24	742.7	29.55	750.5	85.2	29.6	78	.....	1	.....	5	.....	3	4	8	10	.....	.....	8	10.26	260.6
Patna	N. 25 37	E. 85 08	5.49 p.m.	183	56	29.40	746.8	29.58	751.4	84.2	29.0	78	1	3	6	4	1	2	10	2	2	.....	.....	8	12.96	329.2
Hazaribagh	N. 24 00	E. 85 24	5.50 p.m.	2007	612	27.60	701.0	29.58	751.4	79.3	26.3	80	3	5	5	3	3	5	2	1	4	.....	.....	10	14.58	370.3
Cuttack	N. 20 29	E. 85 54	5.52 p.m.	80	24	29.54	750.2	29.62	752.3	83.1	28.4	80	.....	1	6	6	9	1	.....	.....	8	.....	.....	7	16.11	409.2
Calcutta	N. 22 33	E. 88 21	6.01 p.m.	21	6	29.58	751.2	29.60	751.8	81.7	27.6	87	4	2	1	6	6	6	2	2	2	.....	.....	9	10.87	276.1
Dhubri	N. 26 07	E. 89 50	6.08 p.m.	118	36	29.48	748.8	29.60	751.8	81.2	27.3	87	.....	.....	.....	3	4	2	1	3	18	.....	.....	8	18.98	482.1
Chittagong	N. 22 21	E. 91 50	6.15 p.m.	87	26	29.57	751.0	29.66	753.3	80.5	26.9	87	.....	.....	.....	5	8	15	2	.....	1	.....	.....	8	0.46	11.7
Sibsagar	N. 26 59	E. 94 40	6.27 p.m.	333	102	29.27	743.5	29.60	751.9	84.4	29.1	82	.....	1	3	13	2	1	2	9	.....	.....	.....	8	15.13	384.3
Jeypore	N. 26 55	E. 75 50	5.05 p.m.	1431	436	28.15	715.1	29.57	751.0	86.2	30.1	63	1	6	11	7	.....	1	2	3	.....	.....	.....	6	3.61	91.7
Zanzibar	S. 6 10	E. 39 11	2.45 p.m.	23	7	30.03	762.7	.....	.....	81.4	27.4	55	.....	.....	.....	.....	13	17	1	.....	.....	.....	.....	4	0.31	7.9
JAPANESE.																										
Awomori	N. 40 51	E. 140 45	9.31 p.m.	32	10	29.88	759.0	29.92	759.9	72.1	22.3	84.0	6	3	4	.....	7	1	.....	.....	10	2211	3558	5	6.29	159.5
Hakodate	N. 41 47	E. 140 44	9.31 p.m.	10	3	29.90	759.0	29.91	759.7	69.0	20.6	87	3	3	3	1	1	1	10	2	7	2400	3862	5	5.02	127.4
Kioto	N. 35 01	E. 135 46	9.11 p.m.	162	49	29.74	755.2	29.90	759.5	75.6	24.2	81.8	9	5	1	4	3	3	6	.....	.....	3924a	6315a	6	4.90	124.4
Nagasaki	N. 32 44	E. 129 52	8.47 p.m.	189	58	29.62	752.3	29.81	757.2	77.7	25.4	81.4	2	3	1	4	3	3	6	5	4	4690	7550	4	10.09	256.3
Nemuro	N. 43 20	E. 145 35	9.50 p.m.	58	18	30.00	762.1	30.07	763.8	65.7	18.8	94.2	3	.....	.....	2	10	3	1	1	11	.....	.....	7	1.51	38.4
Niigata	N. 37 55	E. 139 03	9.24 p.m.	32	10	29.87	758.7	29.91	759.6	76.1	24.5	80.6	5	.....	2	1	2	8	2	6	5	.....	.....	6	4.36	110.8
Nobiru	N. 38 23	E. 141 12	9.32 p.m.	15	5	29.92	759.9	29.94	760.3	74.1	23.4	86.0	4	1	1	4	12	3	3	1	2	7105	11434	7	8.19	208.0
Osaka	N. 34 42	E. 135 30	9.10 p.m.	13	4	29.83	757.7	29.84	757.9	79.2	26.1	80.8	4	1	7	1	1	.....	10	6	1	4102	6601	7	2.55	64.8
Sapporo	N. 43 04	E. 141 23	9.33 p.m.	60	18	.....	.....	.....	.....	68.4	20.2	88	2	6	.....	2	4	13	.....	.....	4	6309	10153	6	3.70	93.9
Tokei	N. 35 41	E. 139 46	9.27 p.m.	69	21	29.88	759.0	29.95	760.9	74.7	23.7	88.0	1	.....	1	.....	19	2	6	1	1	6056	9762	6	4.27	108.4
Wakayama	N. 34 14	E. 135 09	9.09 p.m.	48	15	29.84	758.0	29.89	759.3	77.1	25.1	80.4	2	.....	1	2	9	.....	5	2	10	5848a	9411a	6	3.46	87.8
MAURITIUS.																										
Mauritius	S. 20 06	E. 57 33	3.58 p.m.	181	55	29.96	761.0	30.15	765.8	72.2	22.3	64.8	.....	.....	1	1	.....	2	23	4	.....	.....	.....	5	1.53	38.9
MEXICAN.																										
Guanajuato	N. 21 01	W. 100 48	5.24 a.m.	6762	2061	23.71	602.3	29.93	760.3	59.0	15.0	89	1	.....	.....	1	.....	1	2	9	17	.....	.....	4	10.97	278.6
Leon	N. 21 07	W. 101 35	5.22 a.m.	5902	1799	24.37	618.9	30.04	762.9	59.4	15.2	92	6	11	.....	.....	1	3	3	7	.....	.....	.....	7	10.05?	252.7
Mazatlan	N. 23 11	W. 106 17	5.03 a.m.	249	76	29.74	755.4	29.87	758.7	77.2	25.2	81	2	.....	.....	2	2	4	7	14	.....	.....	.....	8	6.99	177.6
Mexico	N. 19 26	W. 99 00	5.32 a.m.	7490	2283	23.14	587.8	30.16	766.0	54.7	12.6	86	1	4	2	1	.....	.....	.....	.....	23	.....	.....	6	5.16	131.0
Morelia	N. 19 42	W. 101 06	5.22 a.m.	6247	1940	24.22	615.2	30.76?	768.8?	59.5	15.3	59	1	.....	.....	.....	4	17	4	5	.....	.....	.....	3	5.87	149.1
Pabellon	N. 22 04	W. 102 04	5.20 a.m.	6312	1924	23.97	608.9	29.93	760.1	61.2	16.2	91	.....	2	3	1	.....	.....	.....	.....	25	.....	.....	6	7.70	195.2
Puebla	N. 19 02	W. 98 03	5.36 a.m.	7113	2168	23.52?	596.1?	30.24?	767.2?	54.4	12.0	88	2	.....	.....	.....	.....	.....	.....	5	24	.....	.....	8	19.44?	466.8?
Zacatecas	N. 22 44	W. 102 26	5.18 a.m.	8100	2469	22.58	573.4	30.15	765.9	56.7	13.7	80	4	4	4	3	.....	.....	5	11	.....	.....	.....	5	1.56	39.7
NETHERLANDS.																										
Flushing	N. 51 24	E. 3 35	0.22 p.m.	0	0	29.93	760.2	29.93	760.2	64.9	18.3	.....	3	3	10	8	3	1	2	1	.....	.....	.....	.....	3.58	91.0
Groningen	N. 53 12	E. 6 34	0.34 p.m.	?	?	29.79	756.6	29.84	758.0	63.1	17.3	.....	6	10	4	5	5	1	.....	.....	.....	.....	.....	.....	5.66	143.9
Helder	N. 52 58	E. 4 45	0.27 p.m.	0	0	29.85	758.3	29.85	758.3	61.9	16.6	.....	3	6	7	5	7	2	1	.....	.....	.....	.....	.....	4.09	104.0
Hellevoetsluis	N. 51 49	E. 4 08	0.25 p.m.	0	0	29.90	759.5	29.90	759.5	64.9	18.3	70.5	2	5	8	9	3	2	.....	2	.....	.....	.....	.....	2.76	70.2
Utrecht	N. 52 05	E. 5 07	0.29 p.m.	43	13	29.86	758.4	29.91	759.6	65.3	18.5	72.2	2	5	9	6	5	3	.....	1	.....	.....	.....	6	4.28	108.6
NORWEGIAN.																										
Bergen	N. 60 24	E. 5 20	0.29 p.m.	56	17	29.61	752.1	29.67	753.7	61.5	16.4	71.5	5	8	4	3	10	1	.....	.....	.....	.....	.....	6	7.52	190.9
Brono	N. 65 28	E. 12 14	0.57 p.m.	34	10	29.61	754.1	29.65	753.1	63.0	17.2	68.6	3	3	1	8	6	4	2	1	3	.....	.....	7	3.31	84.1
Christiania	N. 59 55	E. 10 45	0.51 p.m.	134	41	29.50	749.3	29.64	752.9	68.9	20.5	63.9	6	.....	.....	11	6	2	2	4	.....	.....	.....	6	3.80	96.5
Gjæsvær	N. 71 07	E. 25 22	1.49 p.m.	23	7	29.66	753.4	29.69	754.0	57.2	14.0	.....	4	.....	3	3	1	3	4	3	10	.....	.....	7	.....	.....
Lodingen	N. 68 24	E. 16 01	1.12 p.m.	43	13	29.61	752.0	29.65	753.2	60.4	15.8	73.7	4	1	1	10	1	.....	3	5	6	.....	.....	7	6.59	167.4
PORTUGUESE.																										
Angra	N. 38 39	W. 27 14	10.19 a.m.	144	44	.....	.....	.....	.....	73.8	23.2	76.4	5	1	7	2	.....	12	3	1	.....	.....	.....	3	0	0
Campo Major	N. 39 02	W. 6 59	11.40 a.m.	945	288	29.05	737.8	29.99	761.7	87.8	31.0	28.8	2	3	5	3	5	4	2	6	1	.....	.....	2	0	0
Funchal	N. 32 38	W. 16 55	11.00 a.m.	82	25	30.07	763.8	30.16	766.0	74.1	23.4	64.9	.....	.....	.....	27	.....	3	.....	.....	1	.....	.....	5	0	0
Lisbon	N. 38 42	W. 9 08	11.31 a.m.	335	102	29.75	755.6	30.10	764.5	74.8	23.8	51.6	15	.....	.....	10	4	.....	.....	2	.....	.....	.....	2	0.04	0.9
Ponta Delgada	N. 37 45	W. 25 41	10.25 a.m.	66	20	30.23	767.8	30.30	769.6	75.9	24.4	64.7	6	2	1	3	2	6	.....	9	2	.....	.....	4	0.28	7.2
St. Paulde Loanda	S. 8 49	E. 13 07	1.00 p.m.	193	59	29.83	757.6	30.03	762.8	70.5	21.4	82.4	5	7	10	.....	.....	4	1	2	2	.....	.....	3	0.02	0.6
Serra da Estrella	N. 40 25	W. 7 35	11.37 a.m.	4728	1441	25.45	646.3	30.01	762.2	67.5	19.7	42.3	1	11	.....	.....	.....	8	10	1	.....	.....	.....	2	1.27	32.3
RUSSIAN.																										
Akmolinski *a*	N. 51 12	E. 71 23	4.54 p.m.	843?	306?	28.68	728.5	29.70	754.4	73.9	23.3	41.7	5	4	6	7	1	.....	1	3	4	.....	.....	5	0.17	4.4
Archangel	N. 64 33	E. 40 32	2.50 p.m.	16	5	29.78	756.3	29.80	756.8	70.0	21.1	63.7	3	4	6	.....	3	6	5	2	2	.....	.....	7	0.79	20.0
Astrakhan	N. 46 21	E. 48 02	3.20 p.m.	68	21	29.94	760.5	29.86	758.4	84.7	29.3	40.8	3	.....	4	2	3	11	5	3	.....	.....	.....	4	0.36	9.2
Barnaul	N. 53 20	E. 83 47	5.43 p.m.	459?	140?	29.26	743.3	29.74	755.4	70.0	21.1	54.1	2	8	1	5	2	1	2	5	5	.....	.....	6	1.73	43.9
Dorpat	N. 58 23	E. 26 43	1.55 p.m.	223	68	29.54	750.4	29.78	756.3	71.1	21.7	64.5	3	1	2	7	8	4	3	3	.....	.....	.....	6	2.15	54.5
Ekaterinburg	N. 56 49	E. 60 38	4.10 p.m.	894?	272?	28.88	733.6	29.81	757.2	66.0	18.9	55.5	6	6	8	5	1	1	.....	3	1	.....	.....	7	1.34	34.1
Kasan	N. 55 47	E. 49 08	3.24 p.m.	249	76	29.58	751.3	29.84	757.8	77.2	25.1	43.4	3	4	4	5	3	2	2	3	5	.....	.....	6	0.96	24.5
Kertch	N. 45 21	E. 36 29	2.34 p.m.	18?	6?	29.77	756.1	29.79	756.6	79.0	26.1	68.6	3	4	4	1	4	9	1	4	1	.....	.....	4	3.87	98.4
Kieff	N. 50 27	E. 30 30	2.10 p.m.	600	183	29.16	740.7	29.77	756.1	70.9	21.6	60.0	4	6	6	2	6	1	4	2	.....	.....	.....	6	.....	.....
Lugan	N. 48 35	E. 39 20	2.45 p.m.	188?	57?	29.57	751.1	29.77	756.1	80.2	26.8	52.0	1	2	5	8	5	3	4	3	.....	.....	.....	6	3.83	97.2
Moscow	N. 55 46	E. 37 40	2.39 p.m.	448	136	29.32	744.8	29.77	756.1	74.7	23.7	55.0	1	5	.....	7	11	2	1	1	3	.....	.....	5	.....	.....
Nikolaiev	N. 46 58	E. 31 58	2.16 p.m.	62	19	29.78	756.4	29.85	758.2	80.2	26.8	52.2	7	2	4	3	4	.....	.....	2	9	.....	.....	3	2.12	53.8
Pekin	N. 39 57	E. 116 28	7.54 p.m.	123?	38?	29.67	753.5	29.81	757.1	76.5	24.7	74.8	.....	.....	.....	2	.....	.....	.....	.....	29	.....	.....	4	6.61	167.9
St. Petersburg	N. 59 56	E. 30 16	2.09 p.m.	15	5	29.76	755.8	29.77	756.2	72.5	22.5	56.9	4	7	1	4	6	5	2	2	.....	.....	.....	6	3.08	78.1
Semipalatinsk	N. 50 24	E. 80 13	5.29 p.m.	607?	185?	29.13	739.8	29.74	755.5	77.5	25.3	43.7	5	11	4	2	1	1	2	2	3	.....	.....	5	0.98	25.0
Tashkend	N. 41 19	E. 69 16	4.45 p.m.	1493?	455?	28.20	716.4	29.67	753.5	80.4	30.2	42.2	1	1	.....	.....	.....	.....	.....	.....	29	.....	.....	0	0	0
Tiflis	N. 41 43	E. 44 47	3.07 p.m.	1343	409	28.44	722.4	29.76	755.9	91.6	33.1	34.0	2	7	.....	2	14	3	1	.....	2	.....	.....	3	0.14	3.6
Vladivostock	N. 43 09	E. 132 00	8.56 p.m.	59?	18?	29.80	756.9	29.87	758.6	68.5	20.3	88.0	4	.....	2	.....	1	11	1	.....	12	.....	.....	6	1.89	47.9
Warsaw	N. 52 13	E. 21 02	1.32 p.m.	392	119	29.41	747.0	29.82	757.4	67.3	19.6	68.6	5	5	4	11	3	1	.....	1	1	.....	.....	8	.....	.....
Wilna	N. 54 41	E. 25 18	1.49 p.m.	388	118	29.40	746.7	29.80	756.9	71.1	21.7	63.4	2	4	2	9	6	2	1	2	3	.....	.....	6	1.29	32.8
Yeniseisk	N. 58 27	E. 92 06	6.16 p.m.	262?	80?	29.02	752.4	29.90	759.5	63.5	17.5	75.3	2	2	13	5	2	2	1	2	2	.....	.....	5	1.44	36.6
SCOTTISH.																										
Monach Light H.	N. 57 31	W. 7 42	11.37 a.m.	150	46	.....	.....	29.78	756.4	57.6	14.2	93.4	2	8	8	7	4	1	1	.....	.....	.....	.....	10	4.30	109.2
North Unst	N. 60 51	W. 0 53	0.04 p.m.	230	70	.....	.....	29.68	753.9	.....	.....	.....	3	8	6	3	7	3	.....	1	.....	.....	.....	9	blank	blank
SPANISH.																										
Barcelona	N. 41 23	E. 2 11	0.16 p.m.	98	30	29.90	759.4	30.00	762.0	79.2	26.2	67	.....	.....	.....	7	7	9	7	1	.....	1589	2557	3	1.77	45.0
Bilbao	N. 43 15	W. 2 59	11.56 a.m.	52	16	30.08	764.1	30.14	765.6	76.3	24.6	62	1	26	.....	.....	1	2	.....	1	.....	1977	3182	6	1.58	40.1
Burgos	N. 42 20	W. 3 46	11.53 a.m.	2821	860	27.17	690.2	30.02	762.4	75.0	23.9	44	3	.....	2	6	2	.....	3	15	.....	5196	8362	2	0	0
Madrid	N. 40 25	W. 3 42	11.53 a.m.	2152	656	27.85	707.4	29.95	760.7	86.5	30.3	37.0	5	3	1	13	5	1	1	2	.....	6186	9956	1	0	0
Murcia	N. 37 59	W. 1 10	0.03 p.m.	141	43	29.87	758.8	30.00	761.9	79.5	26.4	58.0	.....	.....	.....	4	1	13	6	7	.....	1637	2634	3	0.03	0.7
Oviedo	N. 43 23	W. 5 49	11.45 a.m.	800	244	29.35	745.2	30.21	767.2	62.5	16.9	74	12	13	.....	.....	.....	.....	4	2	.....	3098	4988	5	0.77	19.5
Santiago	N. 42 53	W. 8 28	11.34 a.m.	863	263	29.19	741.4	30.06	763.5	72.5	22.5	63.5	4	3	.....	8	.....	.....	1	6	9	5479	8817	6	0.94	24.0
Sub-Series.																										
Havana	N. 23 08	W. 82 28	7.39 a.m.	62	19	29.99	761.9	30.06	763.6	78.3	25.7	84.6	.....	1	1	.....	.....	13	15	1	.....	.....	.....	4	4.23	107.4
Manilla	N. 14 35	E. 120 56	8.12 p.m.	54	16	29.81	757.2	29.87	758.6	80.6	27.0	83.5	4	.....	2	15	1	2	5	2	.....	.....	.....	5	12.06	306.3
San Fernando	N. 36 28	W. 6 13	11.43 a.m.	95	29	29.97	761.1	30.06	763.5	80.2	26.8	52.1	.....	1	20	.....	3	.....	7	.....	.....	.....	.....	2	0	0
San Juan de Porto Rico	N. 18 30	W. 66 10	7.44 a.m.	82	25	29.97	761.2	30.06	763.5	81.1	27.3	89	.....	.....	.....	.....	1	3	9	2	.....	16	.....	3	5.52	140.2
Tuguegarao	N. 17 37	E. 121 30	8.15 p.m.	125	38	29.69	754.1	29.83	757.7	80.3	20.8	83.5	3	18	2	.....	4	4	.....	.....	.....	.....	.....	7	2.83	71.9
SWEDISH.																										
Haparanda	N. 65 47	E. 24 03	1.44 p.m.	29	9	29.69	754.0	29.72	755.0	66.6	19.2	77	2	1	1	7	10	3	3	2	2	.....	.....	6	2.57	65.3
Umea	N. 63 50	E. 20 17	1.29 p.m.	39	12	29.66	753.4	29.71	754.7	68.2	20.1	68	1	5	2	11	4	3	2	2	1	.....	.....	6	5.56	141.2
Hernosand	N. 62 32	E. 17 57	1.20 p.m.	46	14	29.64	752.8	29.69	754.1	67.5	19.7	66	.....	3	.....	3	12	7	4	.....	2	.....	.....	5	2.41	61.2
Stockholm	N. 59 20	E. 18 04	1.20 p.m.	144	44	29.52	749.9	29.70	754.4	69.4	20.8	57	3	1	1	6	9	5	5	.....	1	.....	.....	5	3.63	92.2
Wisby	N. 57 39	E. 18 19	1.20 p.m.	52	16	29.63	752.6	29.69	754.1	67.6	19.8	67	3	5	7	8	4	2	2	.....	.....	.....	.....	4	2.17	55.2
Sub-Series.																										
Upsala	N. 59 51	E. 17 37	1.19 p.m.	79	24	29.67	753.6	29.76	755.8	68.7	20.4	64.2	3	5	1	4	10	.....	.....	2	.....	.....	.....	7	2.79	70.9
SWISS.																										
Geneva	N. 46 12	E. 6 08	0.33 p.m.	1338	408	28.64	727.5	30.03	762.7	69.1	20.6	54.6	9	4	2	3	8	2	1	2	.....	.....	.....	5	3.69	93.8

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea. Feet.	Met'rs	Result of Simultaneous Observations for August, 1882. Mean Barometer. Actual. Inch.	Mill.	Reduced. Inch.	Mill.	Mean Temperature. Fah.	Cent.	Mean Rel. Humidity.	Wind. Directions. N	NW	W	SW	S	SE	E	NE	C	Total Movement. Miles	Kil.	Average Cloudiness. 0-10	Total Precipitation. Inch.	Mill.
TURKISH.	° ′	° ′																								
Constantinople	N. 41 00	E. 28 59	2.04 p.m.	230	70	.....	.....	29.89	759.1	79.9	26.6	54.	13	.....	.....	2	1	1	.....	14	.....	.....	.....	3	2.23	56.7
Valona	N. 40 27	E. 19 27	1.25 p.m.	105	32	.....	.....	30.07	763.7	81.3	27.4	.....	.....	5	15	7	4	.....	.....	.....	.....	.....	.....	1	0	0
Sub-Series.																										
Beirut	N. 33 54	E. 35 28	2.30 p.m.	111	34	.....	.....	29.81	757.2	86.4	30.2	57.3	.....	5	22	4	.....	.....	.....	.....	.....	.....	.....	3	0	0
UNITED STATES.																										
Albany	N. 42 40	W. 73 45	7.13 a.m.	75	23	29.98	761.5	30.06	763.5	69.1	20.6	70.1	6	2	1	1	18	.....	1	2	.....	3513	5654	5	1.38	35.1
Alpena	N. 45 05	W. 83 28	6.34 a.m.	609	185	29.35	745.5	29.99	761.7	62.5	16.9	91.5	1	9	7	1	4	.....	8	.....	1	5869	9445	6	6.60	167.6
Apache, Fort	N. 33 47	W. 109 58	4.49 a.m.	5050	1539	25.10	637.5	29.82	757.4	59.9	15.5	76.1	.....	.....	.....	.....	.....	.....	25	6	.....	3942	6344	4	7.36	186.9
Assinnaboine, Ft.	N. 48 37	W. 109 43	4.49 a.m.	2710	826	27.21	691.1	29.96	761.0	58.7	14.8	59.2	1	.....	1	14	5	3	1	6	.....	5609	9027	4	0.73	18.5
Atlanta	N. 33 45	W. 84 23	6.31 a.m.	1131	345	28.92	734.6	30.07	763.8	70.5	21.4	88.9	2	5	6	3	2	2	7	4	.....	4786	7702	7	5.86	148.8
Atlantic City	N. 39 22	W. 74 25	7.11 a.m.	13	4	30.03	762.7	30.04	763.0	70.8	21.6	84.4	7	3	3	5	3	1	6	2	1	6540	10525	6	14.87	377.7
Augusta	N. 33 28	W. 81 54	6.41 a.m.	183	56	29.90	759.4	30.09	764.3	74.4	23.6	85.0	1	1	2	3	4	1	2	5	12	2234	3595	6	4.72	119.9
Baltimore	N. 39 18	W. 76 38	7.02 a.m.	45	14	30.03	762.7	30.08	764.0	70.0	21.1	79.6	3	3	2	2	6	1	8	6	.....	3522	5668	6	5.10	129.5
Barnegat	N. 39 48	W. 74 09	7.12 a.m.	20	6	30.03	762.7	30.05	763.3	71.5	21.9	82.2	4	1	8	4	3	2	6	3	.....	8522	13715	6	8.21	208.5
Bennett, Fort	N. 44 42	W. 100 38	5.26 a.m.	1510	457	28.46	722.9	30.00	762.0	61.1	16.2	81.8	3	6	2	1	1	4	1	.....	13	4257*b*	6851*b*	4	0.32	8.1
Benton, Fort	N. 47 51	W. 110 40	4.45 a.m.	2700	823	27.24	691.9	30.03	762.7	59.5	15.3	66.3	.....	3	5	6	.....	1	1	1	14	3286	5288	3	0.27	6.9
Behring Id	N. 55 12	E. 165 55	11.12 p.m.	20	6	29.85	758.2	29.87	758.7	52.4	11.3	.....	.....	1	.....	8	19	1	1	.....	1	7165	11531	9	1.07	27.2
Bismarck	N. 46 48	W. 100 38	5.26 a.m.	1694	516	28.22	716.8	29.97	761.2	61.5	16.4	78.8	4	4	.....	.....	1	2	12	2	6	5889	9477	2	0.30	7.6
Block Id	N. 41 10	W. 71 37	7.22 a.m.	27	8	30.03	762.7	30.06	763.5	68.1	20.1	82.9	4	.....	4	9	1	2	1	6	4	5732	9225	4	1.48	37.6
Boise City	N. 43 46	W. 116 06	4.24 a.m.	2750	838	27.19	690.6	29.94	760.5	58.5	14.7	60.8	4	11	13	1	1	.....	.....	1	.....	2720	4377	1	0	0
Boston	N. 42 21	W. 71 04	7.23 a.m.	142	43	29.90	759.4	30.05	763.3	65.9	18.8	75.6	.....	8	10	7	2	1	1	1	1	5382	8661	4	1.46	37.1
Brownsville	N. 26 00	W. 97 30	5.38 a.m.	43	13	29.93	760.2	29.97	761.2	77.2	25.1	89.5	.....	.....	.....	.....	9	9	.....	1	12	4084	6572	5	2.21	56.1
Buffalo	N. 42 53	W. 78 55	6.52 a.m.	696	212	29.30	744.2	30.02	762.5	65.8	18.8	79.7	1	1	.....	4	11	3	.....	11	.....	6247	10053	7	2.04	51.8
Buford, Fort	N. 48 03	W. 103 58	5.12 a.m.	1900	579	28.05	712.5	29.99	761.7	58.4	14.7	72.0	2	2	3	.....	3	.....	12	6	3	6243	10047	2	0.16	4.1
Burlington	N. 44 29	W. 73 13	7.15 a.m.	268	82	29.74	755.4	30.03	762.7	65.6	18.7	76.5	2	2	.....	.....	19	2	2	3	1	4504	7248	6	3.49	88.6
Cairo	N. 37 00	W. 89 12	6.11 a.m.	377	115	29.67	753.6	30.06	763.5	70.8	21.6	86.8	4	.....	6	7	4	.....	1	6	3	3742	6022	5	3.46	87.9
Campo	N. 32 22	W. 116 08	4.22 a.m.	2500	762	27.40	695.9	29.90	759.4	53.7	12.1	77.7	.....	.....	14	3	9	.....	3	2	.....	3549	5712	2	0.53	13.5
Cape Henry	N. 36 56	W. 76 00	7.04 a.m.	16	5	30.02	762.5	30.04	763.0	74.6	23.7	83.9	6	2	3	7	5	2	4	2	.....	6618	10650	6	4.44	112.8
Cape May	N. 38 56	W. 74 58	7.08 a.m.	27	8	30.02	762.5	30.05	763.3	71.1	21.7	82.7	4	4	1	3	5	3	6	5	.....	7741	12458	6	10.29	261.4
Cape Mendocino	N. 40 26	W. 124 24	3.50 a.m.	637	194	29.44	747.8	.....	.....	52.4*k*	11.3*k*	92.8*k*	26	.....	.....	.....	1	2	.....	.....	2	12842	20667	2	0	0
Cedar Keys	N. 29 12	W. 83 02	6.36 a.m.	22	7	30.06	763.5	30.08	764.0	78.9	26.1	82.4	3	5	4	1	4	2	5	7	.....	5622	9048	5	13.72	348.5
Champaign	N. 40 07	W. 88 14	6.15 a.m.	767	234	29.21	741.9	30.00	762.0	66.2	19.0	83.3	4	3	5	4	6	4	1	4	.....	5605	9020	5	4.87	123.7
Charleston	N. 32 45	W. 79 55	6.49 a.m.	52	16	30.00	762.0	30.05	763.3	77.9	25.5	82.4	1	2	11	7	1	.....	.....	8	1	5312	8549	5	9.32	236.7
Charlotte	N. 35 13	W. 80 51	6.45 a.m.	808	246	29.20	741.7	30.03	762.7	72.7	22.6	80.0	5	.....	4	9	2	4	2	5	.....	3031	4878	6	4.34	110.2
Chattanooga	N. 35 04	W. 85 15	6.27 a.m.	783	239	29.26	743.2	30.07	763.8	69.5	20.8	89.9	2	3	4	8	4	1	1	3	5	3065	4932	5	6.63	168.4
Cheyenne	N. 41 12	W. 104 42	5.09 a.m.	6089	1856	24.20	614.7	29.90	759.4	52.1	11.2	62.0	3	15	8	.....	.....	.....	.....	.....	5	4767	7672	3	0.23	5.8
Chicago	N. 41 52	W. 87 35	6.18 a.m.	661	201	29.29	744.0	29.98	761.5	67.9	19.9	84.9	4	2	3	10	2	1	4	5	.....	4997	8042	6	4.96	126.0
Chincoteague	N. 37 55	W. 75 20	7.06 a.m.	18	5	30.02	762.5	30.04	763.0	72.6	22.6	87.0	6	5	.....	2	5	6	3	3	1	5287	8508	6	4.23	107.4
Cincinnati	N. 39 06	W. 84 26	5.30 a.m.	620	189	29.40	746.7	30.04	763.0	69.9	21.1	82.4	1	4	1	4	6	11	2	1	1	3140	5053	6	5.75	146.0
Cleveland	N. 41 30	W. 81 47	6.42 a.m.	690	210	29.30	744.2	30.02	762.5	66.0	18.9	81.2	1	2	.....	6	10	10	2	.....	.....	5692	9160	6	3.16	80.3
Coleman City *f*	N. 31 55	W. 99 10	5.32 a.m.	1709	521	28.26	717.8	30.00	762.0	68.6	20.3	88.9	1	.....	.....	5	4	6	3	2	4	3565	5737	7	5.52	140.2
Columbus	N. 39 57	W. 83 03	6.36 a.m.	805	245	29.19	741.4	30.02	762.5	66.0	18.9	84.1	2	2	2	8	3	6	4	2	2	4146	6672	6	3.14	79.8
Concho, Fort	N. 31 22	W. 100 20	5.26 a.m.	1900	579	28.12	714.2	29.98	761.5	69.0	20.6	86.7	.....	1	.....	1	3	1	5	6	14	4343	6989	5	14.03	356.4
Custer, Fort	N. 45 48	W. 107 38	4.58 a.m.	3040	927	26.87	682.5	29.93	760.2	59.8	15.4	61.2	7	3	3	.....	9	3	2	3	1	4577	7366	3	0.11	2.8
Davenport	N. 41 32	W. 90 30	6.06 a.m.	615	187	29.37	746.0	30.00	762.0	67.1	19.5	84.5	3	7	2	6	2	.....	2	8	1	4959	7981	5	2.29	58.2
Davis, Fort	N. 30 30	W. 103 45	5.13 a.m.	4940	1506	25.28	642.1	29.93	760.2	63.4	17.4	80.2	3	.....	.....	4	2	1	.....	2	19	3952	6360	4	9.17	232.9
Dayton	N. 46 23	W. 117 50	4.16 a.m.	1660	506	28.30	718.8	30.01	762.2	53.1	11.7	72.2	2	.....	.....	11	2	5	.....	4	7	2773	4463	1	0.14	3.6
Deadwood *a*	N. 44 22	W. 103 34	5.14 a.m.	4600	1402	25.47	646.9	29.90	759.4	59.2	15.1	68.5	6	2	3	9	2	1	5	2	.....	3666	5900	3	1.97	50.0
Decatur *n*	N. 33 10	W. 97 30	5.38 a.m.	1129	344	.....	.....	.....	.....	72.6	22.6	64.3	2	.....	.....	2	3	19	1	3	.....	4390	7065	3	4.63	117.6
Del. Breakwater	N. 38 48	W. 75 05	7.08 a.m.	20	6	30.03	762.7	30.05	763.3	69.9	21.1	90.1	3	2	3	5	5	2	2	9	.....	8804	14168	5	5.82	147.8
Denison *d*	N. 33 50	W. 96 40	5.41 a.m.	767	234	29.23	742.4	30.01	762.2	70.0	21.1	88.1	8	1	1	2	5	3	.....	1	6	3197	5145	4	2.45	62.2
Denver	N. 39 45	W. 105 04	5.08 a.m.	5294	1614	24.87	631.7	29.89	759.2	61.5	16.4	57.8	3	4	1	3	18	1	.....	.....	1	4440	7145	2	1.20	30.5
Des Moines	N. 41 35	W. 93 40	5.53 a.m.	849	259	29.15	740.4	30.03	762.7	64.4	18.0	84.6	10	.....	3	5	3	1	.....	2	7	3623	5830	5	3.14	79.8
Detroit	N. 42 21	W. 83 07	6.36 a.m.	661	201	29.31	744.5	30.00	762.0	67.0	19.4	86.1	4	1	2	6	4	1	3	5	5	5416	8716	7	4.43	112.5
Dodge City	N. 37 39	W. 100 08	5.27 a.m.	2512	765	27.48	698.0	29.96	761.0	64.5	18.1	79.7	6	2	.....	2	14	3	.....	1	3	7166	11532	3	1.07	27.2
Dubuque	N. 42 30	W. 90 44	6.05 a.m.	665	203	29.32	744.7	30.01	762.2	65.4	18.6	84.9	3	6	1	5	3	2	.....	4	7	3190	5134	5	2.29	58.2
Duluth	N. 46 48	W. 92 08	6.00 a.m.	644	184	29.29	744.0	30.01	762.2	61.3	16.3	84.5	2	5	3	4	.....	.....	.....	11	6	5713	9194	.....	3.47	88.1
Eagle Pass	N. 28 40	W. 100 15	5.26 a.m.	780	238	29.21	741.9	30.00	762.0	74.2	23.4	85.9	.....	3	.....	1	1	16	.....	1	9	3680	5922	4	6.04	153.4
Eagle Rock	N. 43 30	W. 112 04	4.40 a.m.	4650	1415	25.35	643.9	29.90	759.4	53.8	12.1	55.4	9	.....	.....	10	6	.....	.....	.....	6	6884	11078	1	0.07	1.8
Eastport	N. 44 55	W. 66 54	7.40 a.m.	61	18	29.93	760.2	30.00	762.0	59.6	15.3	80.0	5	3	2	8	7	.....	.....	3	3	3811	6133	3	1.41	35.8
Elliott, Fort	N. 35 31	W. 100 27	5.28 a.m.	2650	808	27.28	692.9	29.92	760.0	61.8	16.6	76.0	2	7	.....	.....	1	12	.....	2	7	5236	8426	3	1.55	39.4
El Paso	N. 31 46	W. 106 32	5.02 a.m.	3760	1146	26.30	668.0	29.90	759.4	66.5	19.2	76.1	.....	6	.....	.....	.....	.....	8	12	5	3729	6001	2	2.82	71.6
Erie	N. 42 07	W. 80 10	6.47 a.m.	681	208	29.31	744.5	30.02	762.5	67.3	19.6	82.4	.....	1	1	4	7	5	1	2	10	3606	5803	7	4.14	105.2
Escanaba	N. 45 46	W. 87 14	6.20 a.m.	612	186	29.35	745.5	29.99	761.7	61.1	16.2	88.8	13	5	1	2	2	1	.....	2	5	5499	8850	7	4.59	116.6
Fredericksburg *b*	N. 30 20	W. 98 40	5.33 a.m.	1700	518	28.31	719.1	30.02	762.5	72.8	22.7	87.8	.....	2	1	3	2	.....	1	1	19	2612	4204	6	3.16	80.3
Galveston	N. 29 18	W. 94 56	5.49 a.m.	48	15	29.97	761.2	30.02	762.5	79.7	26.5	84.8	2	1	6	6	9	1	4	2	.....	6608	10634	7	9.85	250.2
Grand Haven	N. 43 05	W. 86 18	6.23 a.m.	620	189	29.33	745.0	29.98	761.5	66.2	19.0	87.6	.....	4	1	5	4	2	4	11	.....	6150	9897	6	2.77	70.4
Grant, Fort	N. 32 25	W. 109 56	4.49 a.m.	4860	1481	25.28	642.1	29.85	758.2	65.5	18.6	76.3	2	1	1	1	1	2	14	6	3	4064	6540	4	4.73	120.1
Hatteras	N. 35 14	W. 75 30	7.06 a.m.	19	6	30.02	762.5	30.04	763.0	77.4	25.2	84.0	3	2	4	5	2	4	2	9	.....	9694	15601	6	6.95	176.5
Helena	N. 46 33	W. 112 02	4.40 a.m.	4100	1250	25.88	657.3	29.97	761.2	64.0	17.8	49.5	.....	.....	15	9	3	.....	.....	.....	4	4367	7028	2	0.15	3.8
Henrietta	N. 33 42	W. 98 00	5.36 a.m.	980	300	29.08	738.6	30.08	764.0	72.6	22.6	81.2	4	1	.....	.....	10	4	1	2	9	4654	7490	4	4.70	120.9
Huron	N. 44 21	W. 98 17	5.35 a.m.	1305	398	28.65	727.7	29.99	761.7	59.6	15.3	85.7	1	8	1	1	1	10	5	4	.....	5661	9110	2	1.44	36.6
Indianapolis	N. 39 47	W. 86 00	6.24 a.m.	753	229	29.24	742.7	30.01	762.2	68.7	20.4	83.9	3	2	1	11	3	4	1	2	4	2985	4804	5	4.51	114.6
Indianola	N. 28 32	W. 96 38	5.42 a.m.	26	8	29.98	761.5	30.01	762.2	78.2	25.7	87.5	3	2	1	5	10	3	1	3	3	6716	10808	5	9.02	229.1
Jacksboro	N. 33 10	W. 98 00	5.35 a.m.	1120	341	28.88	733.5	30.00	762.0	69.5	20.8	87.5	4	.....	1	6	4	4	5	1	6	3718	5984	3	3.90	99.1
Jacksonville	N. 30 24	W. 81 40	6.41 a.m.	43	13	30.03	762.7	30.07	763.8	79.0	26.1	81.9	1	.....	1	13	2	1	.....	3	10	4098	6595	4	5.65	143.5
Keogh, Fort	N. 46 17	W. 105 55	5.05 a.m.	2372	723	27.51	698.7	29.94	760.5	61.7	16.5	63.5	5	2	1	4	.....	6	2	7	4	6571	10575	3	Inap.	Inap.
Keokuk	N. 40 23	W. 91 25	6.02 a.m.	618	188	29.35	745.5	29.98	761.5	68.9	20.5	82.6	5	4	.....	5	3	1	2	2	9	3359	5406	3	3.09	78.5
Key West	N. 24 32	W. 81 48	6.41 a.m.	20	6	30.03	762.7	30.05	763.3	83.6	28.7	74.8	3	1	.....	.....	3	10	5	7	2	4591	7388	4	4.97	126.2
Kittyhawk	N. 36 00	W. 75 23	7.05 a.m.	22	7	30.04	763.0	30.06	763.5	75.9	24.4	83.6	1	3	4	4	2	3	7	6	1	8456	13608	5	7.48	190.0
Knoxville	N. 35 56	W. 83 58	6.32 a.m.	980	299	29.06	738.1	30.07	763.8	67.5	19.7	94.0	1	.....	2	8	1	2	.....	11	6	3293	5299	7	6.06	153.9
La Crosse	N. 43 48	W. 91 23	6.03 a.m.	725	221	29.24	742.7	29.99	761.7	66.7	19.3	80.1	11	4	.....	.....	9	5	.....	.....	2	4704	7570	6	3.25	82.5
Leavenworth	N. 39 19	W. 94 57	5.10 a.m.	842	256	29.17	740.9	30.03	762.7	66.4	19.1	82.0	5	7	.....	.....	11	1	.....	.....	7	3995	6429	3	0.83	21.1
Lewiston	N. 46 25	W. 116 59	4.20 a.m.	780	238	29.19	741.4	30.00	762.0	63.4	17.4	48.4	1	1	1	.....	2	9	7	3	7	2051	4266	2	0.06	1.5
Little Rock	N. 34 40	W. 92 12	5.59 a.m.	298	91	29.72	754.9	30.03	762.7	71.6	22.0	91.9	4	4	.....	4	3	1	4	2	9	2733	4398	4	3.17	80.5
Los Angeles *g*	N. 34 03	W. 118 16	4.15 a.m.	371	113	29.57	751.1	29.96	761.0	62.2	16.8	81.7	1	1	10	4	2	1	2	2	1	3023	4865	2	0	0
Louisville	N. 38 18	W. 85 52	6.25 a.m.	530	162	29.46	748.3	30.01	762.2	69.2	20.7	86.7	6	.....	2	5	7	3	1	3	4	4026	6479	5	5.45	138.4
Lynchburg	N. 37 30	W. 79 02	6.52 a.m.	652	199	29.37	746.0	30.04	763.0	70.4	21.3	79.6	.....	2	5	4	3	2	1	9	5	1911	3075	6	5.49	139.4
Macon, Fort	N. 34 42	W. 76 40	7.01 a.m.	11	3	30.04	763.0	30.05	763.3	76.7	24.8	88.2	5	5	8	6	.....	1	1	3	2	7904	12720	6	7.78	197.6
Madison	N. 43 03	W. 89 30	6.10 a.m.	949	289	29.02	737.1	30.00	762.0	64.5	18.1	88.6	7	4	3	6	2	1	4	4	.....	5502	8854	6	6.83	173.5
Maginnis Fort *b*	N. 47 12	W. 109 10	4.51 a.m.	4340	1324	25.68	652.3	.....	.....	60.0	15.6	52.8	5	10	3	.....	.....	3	1	7	.....	6984	11239	3	0.61	15.5
McKavett, Fort *l*	N. 30 48	W. 99 58	5.28 a.m.	2240	683	27.82	706.6	30.03	762.7	69.8	21.0	83.9	1	.....	.....	1	9	4	4	.....	7	3589	5776	5	6.14	156.0
Marquette	N. 46 33	W. 87 36	6.19 a.m.	673	205	29.31	744.5	30.02	762.5	60.7	15.9	83.5	7	7	4	1	1	2	1	4	4	4353	7005	6	3.62	91.9
Memphis	N. 35 07	W. 90 07	6.08 a.m.	321	98	29.71	754.6	30.04	763.0	72.1	22.3	87.7	4	1	6	.....	4	5	1	4	6	3394	5462	6	3.49	88.6
Milwaukee	N. 43 03	W. 87 54	6.17 a.m.	697	212	29.26	743.2	29.99	761.7	65.1	18.4	88.5	8	5	2	8	1	.....	4	3	.....	6740	10847	7	4.21	106.9
Missoula, Fort	N. 46 50	W. 114 01	4.32 a.m.	3140	957	26.80	680.7	30.02	762.5	53.7	12.1	72.4	2	5	1	14	2	2	1	3	1	2480	3991	1	0.31	7.9
Mobile	N. 30 42	W. 87 59	6.16 a.m.	41	12	30.02	762.5	30.06	763.5	75.0	23.9	88.9	4	5	6	7	.....	2	1	6	.....	3462	5571	5	8.76	222.5
Montgomery	N. 32 22	W. 86 23	6.23 a.m.	219	66	29.83	757.7	30.06	763.5	73.7	23.2	90.0	2	3	4	5	3	7	3	1	3	2835	4562	6	3.41	86.6
Moorhead	N. 46 52	W. 96 40	5.41 a.m.	923	281	29.03	737.3	30.00	762.0	60.1	15.6	86.6	4	4	1	.....	5	6	2	4	5	5781	9303	3	2.50	63.5
Morgantown	N. 39 36	W. 79 52	6.48 a.m.	963	293	29.07	738.4	30.07	763.8	65.8	18.8	88.7	2	.....	.....	9	2	2	1	18	13	2841	4572	5	7.72	196.1
Mt. Washington	N. 44 16	W. 71 16	7.22 a.m.	6279	1914	23.93	607.8	30.01	762.2	45.2	7.3	86.4	6	15	2	1	.....	1	.....	5	1	17255	27769	3	2.81	71.4
Nashville	N. 36 11	W. 86 53	6.21 a.m.	507	154	29.47	748.5	30.03	762.7	70.3	21.3	86.2	4	2	6	3	4	2	6	3	1	3277	5275	7	5.47	138.9
New Haven	N. 41 17	W. 72 57	7.16 a.m.	107	32	29.95	760.7	30.06	763.5	65.4	18.6	80.4	6	2	2	6	3	2	.....	6	4	4307	6931	5	0.26	6.6
New London	N. 41 22	W. 72 09	7.19 a.m.	47	14	30.02	762.5	30.07	763.8	68.5	20.3	78.9	9	1	3	4	6	1	1	.....	6	3843	6185	5	2.10	53.3
New Orleans	N. 29 58	W. 90 07	6.08 a.m.	52	16	29.98	761.5	30.03	762.7	78.1	25.6	85.2	2	3	3	6	4	3	5	2	3	3158	5082	5	9.47	240.5
Newport	N. 41 29	W. 71 19	7.23 a.m.	44	13	30.02	762.5	30.07	763.8	68.1	20.1	81.4	4	3	1	10	8	1	.....	3	1	4639	7466	4	1.66	42.2

STATIONS.	Latitude.	Longitude.	Local Time.	Altitude of Barometer above sea		Result of Simultaneous Observations for August, 1882.																			Average Cloudiness.	Total Precipitation.	
						Mean Barometer.				Mean Temperature.		Mean Rel. Humidity.	Wind.														
						Actual.		Reduced.					Directions.									Total Movement.					
				Feet.	Met'rs	Inch.	Mill.	Inch.	Mill.	Fah.	Cent.		N	NW	W	SW	S	SE	E	NE	C	Miles	Kil.		0-10	Inch.	Mill.
U. S.—Continued.	° ′	° ′																									
New York	N. 40 43	W. 74 00	7.12 a.m.	164	50	29.90	759.4	30.08	764.0	67.9	19.9	82.3	4	1	4	6	3	.....	4	9	.....	5389	8673		4	1.63	41.4
Norfolk	N. 36 51	W. 76 19	7.03 a.m.	30	9	30.02	762.5	30.05	763.3	75.7	24.3	80.7	4	2	4	3	3	4	5	4	2	4151	6680		6	4.53	115.7
North Platte	N. 41 08	W. 100 53	5.24 a.m.	2841	866	27.16	689.9	29.96	761.0	61.8	16.6	78.8	2	2	1	1	4	5	5	6	5	6095	9809		3	1.68	42.7
Olympia	N. 47 02	W. 122 56	3.56 a.m.	36	11	30.05	763.3	30.09	764.3	51.9	11.1	87.8	1	.....	2	4	7	.....	.....	1	16	2258	3634		5	0.81	20.6
Ooglaamie *d*	N. 71 17	W. 156 40	1.41 a.m.	17	5	29.75	755.6	29.77	756.1	37.0	2.8	98.1*e*	3	1	1	4	1	3	8	6	.....	10471	16851		9	1.45	36.8
Omaha	N. 41 16	W. 96 00	5.45 a.m.	1113	339	28.90	734.0	30.04	763.0	66.5	19.2	83.9	9	3	.....	1	10	2	1	.....	5	5251	8450		5	0.95	24.1
Oswego	N. 43 29	W. 76 35	7.01 a.m.	304	93	29.70	754.4	30.02	762.5	67.6	19.8	74.9	2	.....	2	2	14	9	1	1	.....	4142	6666		6	3.09	78.5
Palestine	N. 31 45	W. 95 40	5.45 a.m.	523	162	29.51	749.5	30.05	763.3	71.8	22.1	88.6	4	.....	2	5	9	2	3	6	.....	4510	7258		5	5.32	135.1
Pensacola	N. 30 25	W. 87 12	6.19 a.m.	30	9	30.02	762.5	30.05	763.3	76.0	24.4	91.6	2	7	5	3	5	.....	2	5	2	4525	7282		6	18.39	467.1
Philadelphia	N. 39 57	W. 75 10	7.07 a.m.	92	28	29.98	761.5	30.08	764.0	69.5	20.8	80.3	1	2	3	5	3	1	3	9	4	3635	5850		6	6.40	162.6
Pike's Peak	N. 38 50	W. 105 02	5.08 a.m.	14134	4308	18.07	459.0	29.86	758.4	34.4	1.3	76.5	6	5	2	7	2	2	1	3	3	5222	8404		2	3.22	81.8
Pioche	N. 37 57	W. 114 26	4.30 a.m.	6110	1862	24.14	613.1	29.84	757.9	62.7	17.1	55.4	2	7	2	.....	18	.....	.....	.....	2	5089	8190		2	0.95	24.1
Pittsburg	N. 40 32	W. 80 02	6.48 a.m.	762	232	29.24	742.7	30.03	762.7	65.3	18.5	86.1	2	4	3	2	5	1	6	6	2	3370	5423		6	4.50	114.3
Poplar River	N. 48 08	W. 105 10	5.07 a.m.	2030	619	27.89	708.4	.....	.....	.....	.....	.....	1	4	.....	6	2	11	.....	7	.....	.....	.....		2	0.36	9.1
Port Eads	N. 29 00	W. 89 15	6.11 a.m.	7	2	30.04	763.0	30.05	763.3	78.5	25.8	88.0	3	1	4	8	6	5	2	.....	2	5839	9397		5	6.97	177.0
Port Huron	N. 42 58	W. 82 29	6.38 a.m.	633	193	29.33	745.0	29.99	761.7	64.9	18.3	88.6	.....	2	.....	4	4	3	7	4	7	3638	5855		7	7.36	186.9
Portland, Maine	N. 43 40	W. 70 16	7.27 a.m.	45	14	29.96	761.0	30.02	762.5	66.1	18.9	74.6	5	7	7	9	1	.....	.....	1	1	5081	8177		3	0.66	16.8
Portland, Oregon	N. 45 30	W. 122 28	3.57 a.m.	67	20	30.00	762.0	30.07	763.8	55.7	13.2	83.0	3	8	3	.....	1	1	.....	.....	15	3565	5737		5	0.07	1.8
Prescott	N. 34 29	W. 112 13	4.38 a.m.	5340	1628	24.86	631.4	29.84	757.9	60.3	15.7	79.5	.....	.....	.....	3	23	1	.....	1	3	3450	5552		2	3.34	84.8
Provincetown	N. 46 03	W. 70 11	7.27 a.m.	26	8	30.02	762.5	30.05	763.3	68.1	20.1	81.5	2	3	3	10	7	1	1	4	.....	5266	8475		4	0.78	19.8
Punta Rassa	N. 26 36	W. 82 10	6.40 a.m.	13	4	30.04	763.0	30.05	763.3	78.7	25.9	83.3	4	.....	1	2	.....	4	10	10	.....	5840	9398		5	3.62	91.9
Red Bluff	N. 40 10	W. 122 16	3.59 a.m.	350	106	29.540	750.30	29.900	759.40	67.80	19.90	53.10	11	6	1	.....	5	2	.....	1	5	16890	27180		0	0	0
Rio Grande City	N. 26 22	W. 98 45	5.33 a.m.	230	70	29.78	756.4	30.02	762.5	77.3	25.2	84.0	1	.....	.....	.....	1	25	3	.....	1	5025	8087		3	4.52	114.8
Rochester	N. 43 08	W. 77 51	6.58 a.m.	621	189	29.37	746.0	30.02	762.5	63.9	17.7	84.6	1	1	5	13	1	7	.....	1	2	5326	8571		6	2.73	69.3
Roseburg	N. 43 10	W. 123 16	3.55 a.m.	511	156	29.53	750.0	30.07	763.8	52.1	11.2	77.5	1	1	1	.....	.....	1	8	9	10	2596	4178		2	0	0
Sacramento	N. 38 35	W. 121 31	4.02 a.m.	65	20	29.82	757.4	29.89	759.2	60.8	16.0	72.9	1	.....	.....	.....	9	20	1	.....	.....	4477	7205		0	0	0
Saint Louis	N. 38 37	W. 90 15	6.07 a.m.	568	173	29.44	747.8	30.02	762.5	68.4	20.2	95.9	4	4	3	3	9	4	.....	2	2	5476	8813		4	2.20	55.9
Saint Paul	N. 44 53	W. 93 05	5.56 a.m.	811	247	29.15	740.4	29.99	761.7	64.6	18.1	86.9	4	7	1	4	3	4	4	3	1	5311	8547		5	2.45	62.2
Saint Vincent	N. 48 58	W. 97 03	5.40 a.m.	804	245	29.13	739.9	29.98	761.5	56.4	13.6	92.5	.....	4	8	1	.....	4	10	1	3	4947	7961		3	0.42	10.7
Salt Lake City	N. 40 46	W. 111 54	4.40 a.m.	4348	1325	25.68	652.3	29.87	758.7	68.1	20.1	50.0	3	.....	.....	.....	2	10	.....	3	13	4476	7203		3	1.61	40.9
San Antonio	N. 29 28	W. 98 22	5.34 a.m.	673	205	29.32	744.7	30.01	762.2	73.6	23.1	89.8	1	1	.....	1	.....	6	5	5	12	2620	4210		7	3.84	97.5
San Diego	N. 32 32	W. 117 08	4.20 a.m.	67	20	29.85	758.2	29.92	760.0	66.3	19.1	85.7	3	7	5	8	4	1	.....	2	1	4194	6749		1	map.	map
Sandusky	N. 41 27	W. 82 43	6.37 a.m.	639	195	29.34	745.2	30.00	762.0	68.1	20.1	80.9	1	.....	9	10	3	4	3	1	.....	7359	11843		6	8.02	203.7
Sandy Hook	N. 40 28	W. 74 01	7.12 a.m.	28	8	30.04	763.0	30.07	763.8	69.9	21.1	82.5	2	1	8	6	.....	.....	6	8	.....	8383	13491		5	2.95	74.9
San Francisco	N. 37 48	W. 122 26	3.58 a.m.	60	18	29.90	759.4	29.97	761.2	54.6	12.6	89.7	.....	.....	3	25	1	.....	.....	.....	2	9160	14741		5	0	0
Santa Fé	N. 35 41	W. 106 10	5.04 a.m.	7106	2166	23.37	593.6	29.86	758.4	57.5	14.2	64.6	2	1	1	.....	1	3	10	13	.....	6607	10033		3	4.69	119.1
Savannah *b*	N. 32 05	W. 81 08	6.44 a.m.	87	26	29.98	761.5	30.07	763.8	78.4	25.8	79.1	5	3	4	9	4	.....	1	3	.....	4481	7211		5	5.23	132.8
Shaw, Fort	N. 47 29	W. 111 46	4.41 a.m.	3550	1082	26.45	671.8	29.98	761.5	52.9	11.6	72.3	.....	3	21	5	.....	.....	1	.....	1	4715	7588		1	0.68	17.3
Shreveport	N. 32 30	W. 93 45	5.54 a.m.	227	69	29.79	756.7	30.02	762.5	72.5	22.5	91.6	4	1	1	4	5	5	1	2	8	2754	4432		5	3.97	100.8
Sill, Fort	N. 34 40	W. 98 30	5.34 a.m.	1200	366	28.81	731.5	29.99	761.7	67.6	19.8	84.2	18	.....	.....	.....	5	2	2	2	2	5722	9208		4	3.30	83.8
Silver City	N. 32 48	W. 108 15	4.55 a.m.	5890	1795	24.36	618.7	29.82	757.4	57.3	14.1	64.9	1	2	2	.....	15	.....	.....	1	10	2017	3246		3	6.00	152.4
Sitka	N. 57 03	W. 135 19	3.07 a.m.	63	19	29.89	759.2	29.95	760.7	52.5	11.4	87.4	.....	2	.....	5	2	2	4	8	8	5681	8177		6	6.33	160.8
Smith, Fort	N. 35 22	W. 94 24	5.51 a.m.	449	137	29.56	750.8	30.02	762.5	68.9	20.5	89.7	2	1	1	2	1	.....	11	1	12	2960	4764		3	1.34	34.0
Smithville	N. 33 55	W. 78 01	6.56 a.m.	34	10	30.01	762.2	30.05	763.3	76.6	24.8	83.4	4	8	8	5	1	.....	1	2	2	6748	10800		5	8.33	211.6
Spokane Falls	N. 47 39	W. 117 24	4.18 a.m.	1910?	582?	28.02	711.7	30.02	762.5	55.9	13.3	68.6	1	.....	.....	5	4	2	2	2	15	3794	6106		2	0.14	3.6
Springfield, Ill.	N. 39 48	W. 89 48	6.10 a.m.	644	196	29.36	745.7	30.02	762.5	67.8	19.9	85.6	4	5	2	3	6	4	1	3	3	3709	5969		3	3.13	79.5
Springfield, Mass.	N. 42 06	W. 72 36	7.18 a.m.	129	37	29.94	760.5	30.07	763.8	66.5	19.2	80.1	5	2	2	.....	18	2	.....	2	.....	3051	4910		4	1.86	47.2
Springfield, Mo.	N. 37 12	W. 93 18	5.55 a.m.	1351	412	28.63	727.2	30.02	762.5	65.5	18.6	87.0	4	.....	1	4	4	7	2	5	4	4697	7559		3	2.14	54.4
Starkville	N. 33 35	W. 88 49	6.13 a.m.	455	123	29.57	751.1	30.04	763.0	75.5	24.2	84.0	4	1	5	7	2	8	2	1	1	4159	6693		4	9.53	242.1
Stevenson, Fort	N. 47 36	W. 101 23	5.22 a.m.	1750	534	28.18	715.8	29.96	761.0	57.4	14.1	87.9	1	5	3	.....	.....	9	8	4	1	5074	8166		4	0.21	5.3
Stockton	N. 30 50	W. 102 50	5.16 a.m.	3010	917	27.03	686.5	29.97	761.2	64.6	18.1	89.7	.....	2	1	3	11	3	2	1	8	5804	9340		4	7.10	180.3
Thomas, Camp	N. 33 04	W. 110 06	4.49 a.m.	2710	826	27.23	691.6	29.85	758.2	71.2	21.8	77.0	.....	1	8	.....	4	3	2	.....	13	.....	.....		4	2.48	63.0
Thatcher's Island	N. 42 36	W. 70 34	7.26 a.m.	48	15	29.99	761.7	30.04	763.0	62.8	17.1	83.4	4	5	2	8	7	.....	3	1	1	5789	9316		2	1.12	28.4
Toledo	N. 41 40	W. 83 32	6.34 a.m.	651	198	29.32	744.7	29.99	761.7	68.2	20.1	83.1	2	2	3	4	8	6	2	2	2	5272	8484		7	3.73	94.7
Tucson	N. 32 14	W. 110 56	4.44 a.m.	2369	722	27.54	699.5	29.88	758.9	73.0	22.8	80.7	1	.....	.....	1	10	12	3	1	3	2727	4389		4	6.32	160.5
Umatilla	N. 45 55	W. 119 21	4.11 a.m.	340	103	29.68	753.9	30.04	763.0	59.1	15.1	58.1	.....	.....	11	6	1	9	2	1	1	6452	10383		2	0	0
Uvalde	N. 29 13	W. 99 40	5.29 a.m.	930	283	29.04	737.6	29.98	761.5	73.2	22.9	90.0	.....	.....	.....	1	2	13	4	4	7	3112	5008		7	3.23	82.0
Verde, Fort	N. 34 24	W. 111 53	4.38 a.m.	?	?	.....	.....	.....	.....	69.9	21.1	62.2	5	12	5	5	1	2	.....	1	.....	.....	.....		3	1.18	30.0
Vicksburg	N. 32 23	W. 90 54	6.04 a.m.	244	74	29.80	756.9	30.04	763.0	73.0	22.2	91.8	4	2	1	3	7	5	3	3	3	2596	4177		6	4.42	112.3
Washakie, Fort	N. 42 59	W. 108 43	4.50 a.m.	5580	1702	24.60	624.8	29.94	760.5	54.0	12.2	64.6	.....	10	10	.....	1	1	2	2	5	4254	6846		3	0.25	6.3
Washington, D. C.	N. 38 54	W. 77 02	7.00 a.m.	106	32	29.96	761.0	30.07	763.8	69.5	20.8	84.2	3	6	2	3	1	.....	3	8	5	2633	4237		6	4.44	112.8
W. Las Animas	N. 38 04	W. 103 07	5.16 a.m.	3905	1190	26.12	663.4	29.87	758.7	60.2	15.7	75.3	2	6	2	6	1	.....	4	9	1	6811	10961		3	1.89	48.0
Williamsport	N. 41 15	W. 77 03	7.00 a.m.	561	171	29.47	748.5	30.05	763.3	64.6	18.1	81.9	1	4	7	2	.....	4	5	1	7	2422	3898		5	6.70	170.2
Wilmington	N. 34 11	W. 78 10	6.56 a.m.	52	16	30.00	762.0	30.05	763.3	76.6	24.8	84.3	1	3	8	4	.....	.....	1	7	7	3471	5584		6	8.09	205.5
Winnemucca	N. 41 00	W. 117 43	4.17 a.m.	4327	1319	25.66	651.8	29.89	759.2	55.5	13.1	30.7	1	.....	1	13	4	.....	1	9	2	6179	9944		2	0	0
Yankton	N. 42 45	W. 97 30	5.38 a.m.	1228	374	28.75	730.2	30.02	762.5	63.7	17.6	75.7	4	2	.....	3	1	3	2	1	15	2093	3368		3	0.64	16.3
Yuma	N. 32 44	W. 114 36	4.36 a.m.	141	43	29.66	753.4	29.80	756.9	81.8	27.7	63.8	1	.....	1	.....	.....	11	2	2	14	4560	7338		5	0.03	0.8
Sub-Series.																											
Bogota	N. 4 36	W. 74 14	7.11 a.m.	8655	2638	22.06	560.3	.....	.....	52.4	11.3	69	1	2	3	2	5	7	2	.....	8	3988	6418		8	2.75	69.8
Bridgetown	N. 13 12	W. 59 35	8.10 a.m.	?	?	30.04	763.0	30.06	763.5	81.8	27.7	87.2	.....	.....	.....	.....	.....	4	21	6	.....	.....	.....		7	4.74	120.4
Buenaventura	N. 3 50	W. 76 55	7.00 a.m.	32	8	29.98	761.5	30.01	762.2	76.8	24.9	91.1	.....	.....	.....	1	8	1	.....	1	20	.....	.....		9	26.10	662.9
Havana	N. 23 09	W. 82 22	6.39 a.m.	50	15	29.99	761.7	30.05	763.3	79.2	26.2	82.3	.....	1	.....	.....	.....	14	5	.....	11	3000	4828		4	4.87	123.7
Kingston	N. 18 58	W. 76 48	7.01 a.m.	10	3	30.02	762.5	30.03	762.7	79	26.1	78	13	1	.....	.....	.....	.....	1	.....	16	3103	4994		7	1.56	39.6
Magua	N. 19 17?	W. 71 08?	7.24 a.m.	1000?	305?	.....	.....	.....	.....	73.0	22.8	.....	.....	.....	.....	.....	.....	.....	2	.....	29	.....	.....		1	3.69	93.7
Navassa	N. 19 25	W. 75 03	7.43 a.m.	77	23	29.90	759.4	29.98	761.5	81.5	27.5	78	.....	.....	.....	.....	.....	.....	19	12	.....	.....	.....		6	0.77?	19.6?
Paramaribo	N. 5 50	W. 55 13	8.27 a.m.	6	2	30.06	763.5	30.06	763.5	79.1	26.2	84.8	.....	.....	.....	.....	3	20	8	.....	.....	.....	.....		6	8.18	207.8
Puerto Berrio	N. 6 22	W. 74 28	7.10 a.m.	542	165	29.42	747.3	29.98	761.5	76.8	24.9	84.0	6	.....	.....	.....	3	2	2	.....	18	.....	.....		9	6.53	165.9
Rivas	N. 11 26	W. 85 47	6.25 a.m.	150	46	.....	.....	.....	.....	.....	.....	96.1	.....	1	.....	2	.....	1	.....	27	.....	.....	.....		5	6.25	158.7
St. Paul, Alaska *d*	N. 57 47	W. 152 21	1.59 a.m.	54	16	29.77	756.1	29.83	757.7	49.5	9.7	95.5	4	5	1	.....	.....	3	.....	4	10	.....	.....		8	8.42	213.9
St. Thomas	N. 18 20	W. 64 56	7.48 a.m.	141	43	29.98	761.5	30.11	764.8	81.9	27.7	77.0	.....	.....	.....	3	.....	4	19	5	.....	.....	.....		4	2.70	68.6
York Factory	N. 57 02	W. 92 26	5.58 a.m.	55	17	29.91	759.7	29.97	761.2	47.7	8.7	93.1	9	4	2	5	3	2	2	4	.....	9210	14822		4	5.30	134.6

Ocean Square Data for August, 1882.

Location of Centre of each Square.		No. of days.	No. of ob's.	Barometer.		Temperature.		Wind Frequency.										Wind force 0–10.
				Inch.	Mill.	Fah.	Cent.	N.	NW.	W.	SW.	S.	SE.	E.	NE.	Calm.	Blank.	
N. 12.5°	W. 22.5°	7	8	30.06	763.5	79.9	26.6	5	1	2				1	13	1	8	1.3
12.5	27.5	17	26	30.04	763.0	80.3	26.8	6		2		1		2	9		10	1.1
12.5	32.5	10	14															
12.5	37.5	1	1															
12.5	42.5	5	5															
12.5	47.5	6	6															
12.5	52.5	1	1															
12.5	57.5	6	6															
17.5	22.5	4	4	30.08	764.0	79.0	26.1	1			1		1	1	13		14	1.2
17.5	27.5	15	22	30.08	764.0	79.2	26.2	1	1	1			2	3	13		11	1.1
17.5	32.5	7	7	30.10	764.5	79.7	26.5							7	9		15	2.1
17.5	37.5	8	11															
17.5	47.5	2	2															
17.5	52.5	4	5															
17.5	57.5	6	6															
22.5	27.5	7	8	30.13	765.3	78.0	25.6						1	7	12		11	1.5
22.5	32.5	2	2	30.14	765.5	78.5	25.8	1					1	8	12		9	1.9
22.5	37.5	6	6	30.17	766.3	80.4	26.9						3	13	4		11	1.5
22.5	42.5	8	9															
22.5	52.5	3	4															
22.5	57.5	4	4															
22.5	62.5	6	7	30.10	764.5	82.5	28.1					2	5	9	1		14	1.2
22.5	67.5	14	17	30.09	764.3	82.5	28.1		2			2	3	12	5		7	1.1
22.5	72.5			30.08	764.0	82.6	28.1	2			1	3	7	5	7		6	1.4
27.5	22.5	6	6	30.17	766.3	76.3	24.6						1	5	17		8	1.9
27.5	27.5	2	2	30.19	766.8	77.0	25.0						3	10	12		6	1.5
27.5	32.5	2	2	30.21	767.3	77.9	25.5	1					4	11	10		5	1.8
27.5	37.5	14	19	30.22	767.6	79.4	26.3					1	10	11	5		4	1.7
27.5	42.5	4	4	30.21	767.3	81.0	27.2					4	18	2	1	1	5	1.5
27.5	47.5	9	9	30.19	766.8	81.7	27.6					4	16	2	1		8	1.4
27.5	52.5	2	2															
27.5	62.5	5	5	30.11	768.4	81.2	27.3	3			4	4	2	4	3		11	1.0
27.5	67.5	21	29	30.10	764.5	81.5	27.5	6	3	1	2	6		2	6		5	1.2
27.5	72.5	22	34	30.11	764.8	81.7	27.6	2	5		2	8	2	3	4		5	1.4
27.5	77.5	16	23	30.10	764.5	81.5	27.5	3	4	1	1	5	12	1	4			1.5
32.5	12.5	3	3	30.12	765.0	73.8	23.2	5			3			1	21		1	1.3
32.5	17.5	5	5	30.16	766.1	72.9	22.7	2			4		1		23	1		1.3
32.5	22.5	3	4	30.23	767.8	74.3	23.5	1					1	4	22		3	2.1
32.5	27.5	1	1	30.24	768.1	75.5	24.2	1					10	4	14		2	1.4
32.5	32.5	7	8	30.26	768.6	77.0	25.0				1	10	5	12	2		1	1.7
32.5	37.5	20	22	30.26	768.6	79.0	26.1			1	6	12	5	4	1		2	1.7
32.5	42.5	11	14	30.25	768.3	79.9	26.6				1	14	10	2	1		3	1.9
32.5	47.5	19	23	30.19	766.8	80.2	26.8			1	2	18	4	1	3		2	2.0
32.5	52.5	7	7	30.18	766.6	80.3	26.8	1			2	12	4	1			11	1.8
32.5	57.5	3	3	30.12	765.0	80.0	26.7	1	2	1	3	11	3		1		9	1.5
32.5	62.5	1	1	30.07	763.8	79.6	26.4	2	5	1	2	13	2		5		1	1.5
32.5	67.5	15	17	30.07	763.8	80.3	26.8	4	4	2	4	5	2		6		4	1.7
32.5	72.5	23	43	30.07	763.8	80.4	26.9	4	6		2	11	2		4		2	1.5
32.5	77.5	26	67	30.06	763.5	79.0	26.1	3	2	3	9	4	3		7			1.7
37.5	12.5	14	17	30.13	765.3	72.3	22.4	17	3	2	3				6			2.3
37.5	17.5	13	15	30.20	767.1	71.5	21.9	10	1	3	4				13			2.4
37.5	22.5	11	12	30.26	768.6	72.6	22.6	14	2		2		1	3	9			1.9
37.5	27.5	8	9	30.29	769.4	73.1	22.8	6	2	3	3		8	2	7			1.4
37.5	32.5	16	18	30.29	769.4	74.3	23.5	4	2		7	9	4	1	4			2.6
37.5	37.5	19	25	30.26	768.6	76.1	24.5	2	2	2	7	11	3	1	3			2.4
37.5	42.5	15	25	30.20	767.1	76.8	24.9	1	2	1	10	10	4	1	2			2.4
37.5	47.5	12	16	30.15	765.8	75.9	24.4	2	2	2	10	12	3					2.5
37.5	52.5	11	21	30.10	764.5	75.4	24.1	2	4		9	10	3		1		2	2.8
37.5	57.5	21	31	30.06	763.5	75.4	24.1	4	6		8	8	2				3	2.8
37.5	62.5	15	20	30.07	763.8	74.2	23.4	5	9		5	7	2		3			2.7
37.5	67.5	19	28	30.07	763.8	74.0	23.3	5	4	2	3	8	2	1	6			2.3
37.5	72.5	31	148	30.06	763.5	71.1	21.7	5	3	1	4	6	5	3	4			2.2
42.5	12.5	5	6	30.15	765.8	70.2	21.2	4	11	1	4	2	3		6			1.8
42.5	17.5	8	10	30.19	766.8	69.3	20.7	3	17	1	3			1	6			1.8
42.5	22.5	15	15	30.23	767.8	70.1	21.2	4	11	2	6	1	2	1	4			2.1
42.5	27.5	14	18	30.24	768.1	70.9	21.6	4	3	4	13	1	3		2		1	2.5
42.5	32.5	19	21	30.23	767.8	71.8	22.1	2	4	3	13	6	1		2			2.5
42.5	37.5	22	32	30.19	766.8	72.5	22.5	3	3	2	14	8			1			2.8
42.5	42.5	25	55	30.13	765.3	71.8	22.1	2	5	2	12	9		1				2.9
42.5	47.5	30	78	30.09	764.3	69.3	20.7	3	4		12	11	1					2.6
42.5	52.5	29	87	30.05	763.3	69.6	20.7	2	3		11	11	1		2		1	2.7
42.5	57.5	30	110	30 02	762.5	68.7	20.4	5	4	4	10	4			4			3.0
42.5	62.5	29	97	30.03	762.7	67.3	19.6	5	7	2	7	6			4			2.8
42.5	67.5	31	135	30.03	762.7	66.1	18.9	7	2	4	9	6			3			1.9
47.5	12.5	28	68	30.06	763.5	64.5	18.1		7	10	3	3	2	2	4			3.4
47.5	17.5	29	56	30.09	764.3	63.5	17.5	1	4	14	7	1	2	1	1			3.3
47.5	22.5	26	60	30.10	764.5	63.4	17.4	2	6	9	8	4		1	1			3.5
47.5	27.5	29	72	30.12	765.0	62.4	16.9	6	7	7	3	8						3.6
47.5	32.5	29	71	30.09	764.3	64.3	17.9	1	7	5	9	8			1			3.0
47.5	37.5	29	77	30.05	763.3	64.3	17.9	2	7	3	12	6	1					3.0
47.5	42.5	25	54	30.02	762.5	62.2	16.8	1	5	3	11	5	5		1			2.7
47.5	47.5	16	29	30.00	762.0	60.2	15.7	2	4	1	13	7	3		1			2.4
52.5	12.5	26	52	29.97	761.2	60.5	15.8	3	8	10	3	6		1				3.3
52.5	17.5	21	40	29.97	761.2	59.7	15.4		13	7	5	6						3.3
52.5	22.5	22	37	29.99	761.7	59.1	15.1	1	10	4	8	7		1			1	3.3
52.5	27.5	23	45	29.99	761.7	58.6	14.8	1	10	5	8	5	1		1			3.3
52.5	32.5	18	21	30.00	762.0	58.3	14.6	2	8	5	10	5	1					2.9
52.5	37.5	12	13	29.96	761.0	57.7	14.3	4	6	7	8	4	1	1				2.7
52.5	42.5	5	6	29.95	760.7	56.2	13.4	3	6	2	10	3	2	1	1		3	2.4
52.5	47.5	3	3	29.94	760.5	54.8	12.7	2	7	2	7	4	4	1	1		3	2.1
57.5	12.5	14	20	29.80	756.9	55.1	12.8	7	6	2	10	2	2	1			1	3.3
57.5	17.5	9	13	29.82	757.4	53.6	12.0	9	5	4	2	2	7		1		1	3.2
57.5	22.5	9	10	29.82	757.4	52.3	11.3	4	10	1	9	3	2		2			3.3
57.5	27.5	3	4	29.85	758.2	51.5	10.8	7	9	2	5	4	2	1			1	2.9
57.5	32.5	1	1	29.86	758.4	50.5	10.3	1	15	2	7		2	2	1		1	2.2
57.5	37.5	4	4	29.87	758.7	49.8	9.9	3	12	1	6	2	1		3		3	2.0
57.5	42.5			29.87	758.7	48.3	9.1	2	7	1	5	3	2		3		8	1.7
57.5	47.5			29.87	758.7	47.5	8.6	4	8	1	2	5	1	1	1		8	1.6

NOTE.—See General Remarks.

REVIEW.

INTERNATIONAL METEOROLOGY.

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

With this REVIEW is issued international storm-track chart iii. for the month of August, 1881. This chart continues the series of international charts begun in November, 1877.

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

The paths of twenty-five of the more important atmospheric depressions that have appeared in the northern hemisphere during the month of August, 1881, have thus been traced. In addition are also shown the paths of three typhoons which occurred in the China sea during the month. The tracings of these are copied from Mr. Marc Dechevrens' "Typhoons of 1881."

The following concerns the general distribution of the depressions above referred to: Six were first observed in North America; two of these first originated south of the twenty-fifth parallel, and were probably tropical hurricanes; number vi. being especially notable on account of the unusual direction of the centre, and its great violence. Two depressions are shown over the Atlantic, but in neither case have these been traced farther eastward than the twenty-fifth meridian. Thirteen areas of barometric minima are exhibited in Europe; three of these are traced in the basin of the Mediterranean, and have moved toward the northeast; five have moved from southwest to northeast over the British Isles, while the remaining five prevailed in the northern part of the continent. Three depressions are traced in Asia.

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

I. This disturbance originated far north of the stations of observation, and its path is therefore only approximately determined. On August 1st the pressure began to decrease in the Hudson Bay region, and by the 2d the barometer at York Factory read 29.17 (740.9), wind sw. 24 miles, raining. During the 3d and 4th the disturbance moved eastward over Hudson Bay and northeastern Canada, to Davis' Strait, where it was apparently central on the last mentioned date; pressure at Godthaab, Greenland, 29.37 (746.0), wind s., force 7, raining. On the 5th the region of least pressure was near Iceland, where the barometer read 29.49 (749.0), while a brisk decrease of pressure had extended to the British Isles and western Europe. From the 5th to the 9th the storm-centre remained, with slow and irregular movements, in the vicinity of Iceland, causing strong southwesterly winds and rain over the western part of the British Isles. After the 9th, the pressure in Iceland rose gradually until the 12th, when the barometer at Stykkisholm read 30.06 (763.5).

II.—This depression appeared in Manitoba on the 8th, the barometer at Fort Garry reading 29.56 (750.8) wind s., weather cloudy. The disturbance moved eastward, or slightly south of east, to the lake region, and on the 9th it was central in Ontario, accompanied by showery weather in that province and at stations in the lower lake region. During the day the disturbance passed eastward, the rains becoming general along the Saint Lawrence valley, in New England, and the Maritime Provinces; on the 10th the centre of depression occupied the provinces of Quebec and New Brunswick, and the northern part of the state of Maine. Moderate southerly winds and cloudy weather prevailed at stations in Nova Scotia and Newfoundland, whilst variable winds, mostly westerly, prevailed to the west of the centre. On the 11th the disturbance was central over the Gulf of Saint Lawrence, and on the 12th it apparently ceased to exist as a depression, but the barometer rose slowly, owing to the advance eastward of low area iii.

III.—This depression advanced to the United States from the region north of Montana, on the 10th, the pressure at the centre being about 29.65 (753.1). During the day the disturbance moved eastward, with gradually decreasing pressure at the centre, which was now enclosed by the isobar for 29.6 (751.8); on the 11th it was in Dakota and Minnesota, causing showery weather and moderate winds at stations to the eastward. On the 12th the storm-centre was in Ontario, attended by rainy weather in the lower lake region, New England, and the Saint Lawrence valley; on the following day the depression was shown in Quebec and the Maritime Provinces, the pressures near the centre ranging from 29.45 (748.0) to 29.55 (750.6). On the 14th the disturbance passed into the Gulf of Saint Lawrence and disappeared on the 15th, closely followed by an area of high pressures, which brought cool northerly winds and clearing weather.

IV.—The pressure remained unsteady at stations on the northeastern slope of the Rocky mountains from the 13th to the 16th; on that date the depression spread to the Missouri valley, where the pressures were from .1 to .2 inch below the normal. The disturbance moved slowly southeastward during the 17th and 18th, and finally dissipated in the south Atlantic states on the 19th, without having exhibited any decided storm-energy.

V.—This storm developed in the Gulf of Mexico prior to the 17th, on which date it was central off the west coast of southern Florida, attended by strong breezes and heavy rain. On the 18th the storm-centre was off the eastern coast of Florida. On reaching the Atlantic the disturbance appears to have moved northeastward, and on the 20th, it was central about N. 35° and between W. 65° and 70°. The ship "Great Admiral," in N. 39° 44′, W. 67° 26′, reported heavy south-southeast gale, veering to east and then to north, with vivid lightning and heavy rain; lowest barometer 29.48 (748.8); the gale lasted ten hours, during which time the vessel lost maintopsail and shifted cargo; two vessels near the same position as the "Great Admiral" had a similar experience, losing sails and rigging. On the 21st and 22d the disturbance was central south of Nova Scotia, causing unsettled and rainy weather in Canada and in New England. By the 23d the depression had apparently filled up.

VI.—This was a West Indian hurricane, the centre of which was supposed to be to the northeast of the Windward Islands on the 22d or 23d. The earliest reliable information respecting the presence of this hurricane was the report of the schooner "Walter L. Plummer," Capt. W. P. Allen. On the 22d the vessel was in N. 25°, W. 67° 30′, and reported at 4.26 p. m., calm; aneroid barometer 30.0 (762.0), the only indication of the proximity of a hurricane being the long, heavy se. swell. During the 23d the barometer remained steady, with a light wind from ene.; at 6.26 p. m. the wind increased and the weather became threatening; 8.26 p. m., the wind blowing a strong gale, accompanied by torrents of rain, barometer steady at 30.0 (762.0). At 10.26 p. m. the ship was hove to, having made, on a sw. by w. ¼ w. course, 291 miles; Turk's Island then bore ssw., distant about 130 miles. The storm-centre appears to have moved very slowly during the 23d and 24th, vessels near N. 22°, W. 67° and 69° having reported continuous east to southeast winds, of hurricane force, with torrents of rain, and much thunder and lightning on these dates. The hurricane apparently raged with unabated violence in the vicinity of the Windward Islands until the 25th, the brig "L'Edouard," having been driven ashore at Humacoa, Porto Rico, during a hurricane which prevailed there on that date. The absence of reliable data as to pressure and wind-direction renders it difficult to definitely locate the centre, but the report of the "Walter L. Plummer" seems to indicate that the storm-centre was to the northeastward of Turk's Island, and moving towards the northwest on the 24th. On that date the vessel was hove to

about 130 miles northeast of Turk's Island, and reported as follows:

Date.	Time.	Barometer. (aneroid.)	Wind.	Remarks.
24th.....	0.26 m.....	29.7 (754.4)	ene.	
"	1.26.....	29.6 (751.8)	ne. by e.	
"	2.66.....	29.5 (749.3)	ne.	
"	3.26.....	29.5 (749.3)	ne. by n.	
"	4.26.....	29.3 (744.2)	nne.	
"	6.26.....	29.2 (741.7)	n.	
"	8.26.....	29.1 (739.1)	nnw.	
"	10.26.....	29.3 (744.2)	wnw.	wind blowing with destructive violence.
"	14.26	29.3 (744.2)	wnw.	
"	16.26.....	29.4 (746.7)	sw.	moderating.
"	18.26.....	29.6 (751.8)	s.	
"	20.26.....	29.7 (754.4)	se.	wind and sea moderating.

On the 25th the storm-centre was to the eastward of the Bahamas, but by the 26th it had passed to the northwestward of those islands, as indicated by the shift of the wind from north to southwest at Nassau and the falling barometer at that station. The bark "Mexico," in N. 30° 35′, W. 77° 26′, on the 26th had a ne. hurricane in which she lost foremast, jib-boom, and maintopmast, and had one seaman washed overboard. On the same day the ship "La Louisiane," after encountering the hurricane, was abandoned in N. 31°, W. 78°, in a waterlogged condition. On the 27th the hurricane was central off the coasts of Georgia and South Carolina; during its passage it displayed extreme violence and caused great damage to shipping and property. The captain of the s. s. "City of San Antonio," which put into Fernandina to repair damages, reported the gale as being one of the most terrific he ever experienced; several vessels were driven ashore on Frying Pan Shoals (off the coast of the Carolinas), whilst many others reached port with loss of sails, spars, and deck-fittings. During the 27th and 28th the hurricane did immense damage at Savannah, Charleston, and at adjacent places; twenty steamers and sailing vessels were blown from their moorings, many sank and others were seriously damaged by collision; several pilot-boats were also wrecked. At Charleston four schooners, three sloops, and three lighters were driven ashore during the hurricane; and vessels in the ports of Beaufort, South Carolina, and Wilmington, North Carolina, also sustained damages to a more or less extent. The loss was further augmented by the high tide and heavy swell which swept along the coast, submerging many rice fields and carrying away houses, &c. Instead of recurving to the northeastward, as is usual in the case of West Indian hurricanes, this storm appears to have continued its course toward the northwest, the region of least pressure on the 28th being in Georgia. During the day the pressure gradually increased and the storm diminished in violence, although, at sea, the wind still blew with the force of a strong gale. During the 29th and 30th the disturbance moved up the Mississippi valley with greatly diminished energy, and eventually dispersed on the last-mentioned date.

The damage done to the city of Savannah by this hurricane was estimated at $1,500,000; there was scarcely a building in the city but received more or less injury; over three hundred negroes and thirty-five white persons were killed or drowned. The damage to plantations could not be estimated. This storm was more destructive than the memorable one of 1854, being more violent and prolonged. It is of interest to note that an area of high pressures occupied the middle Atlantic states and the northern part of North Carolina, while the pressure remained relatively low in the northwest; to such a distribution of atmospheric pressure may possibly be due the abnormal path pursued by the centre of the hurricane.

The following are descriptions of the depressions that appeared over the Atlantic and in Europe:

VII.—On the 1st the atmospheric pressure was low over the ocean between Newfoundland and the fortieth meridian; vessels between N. 40° and 50° reporting moderate westerly and northwesterly gales. By the 2d an extensive depression, which to some extent affected the weather conditions in the British Isles, was shown between 55° and 20° west longitude, and from N. 45° northward to Greenland; within this region the pressure ranged from 29.64 (752.8) near the fortieth meridian, to 29.71 (754.6) near W. 25°. On the 3d the centre of disturbance was near N. 50° W. 32°, where the lowest reported pressures were 29.42 (747.3) and 29.44 (747.8). During the day the pressure increased both to the east and west, and on the 4th the depression either filled up or became merged in low area i.

VIII.—This was a continuation of the disturbance charted as low area xxiii. on the chart for July. At the close of that month the depression occupied Great Britain; passing northeastward during the 31st (July), the centre, enclosed by the isobar for 29.0 (736.7), reached the Norwegian coast on August 1st, and caused strong winds at stations on the eastern shores of the North sea. Continuing its north-northeasterly course along the Norwegian coast, the centre of disturbance was shown on the 2d, near Lodingen, at which station the barometer read 29.27 (743.4), calm, light rain, while moderate westerly gales prevailed in southern Scandinavia and in Denmark. During the day the disturbance apparently passed into the Arctic ocean.

IX.—On the 3d a depression appeared to the eastward of Iceland, the barometer at Thorshavn, Färoe Islands, reading 29.48 (748.8), a fall of .3 inch during the preceding twenty-four hours. On the 4th the region of least pressure was over the Gulf of Bothnia, attended by showery weather and high temperatures, with brisk to strong westerly winds at stations lying south of the centre. On the 5th the depression was central in northern Russia, in which region it caused rainy weather, with strong northwesterly winds over the Gulf of Finland. From the 7th to the 10th this depression moved slowly eastward over the Ural region to Siberia, where it disappeared on the last-mentioned date.

X. This disturbance, which was probably subsidiary to low area i., appeared between the Shetland and Färoe Islands on the 6th, and moved northeastward, causing moderate westerly and southwesterly gales, with rain over the northern part of the British Isles. On the 7th the depression occupied the Gulf of Bothnia and Finland; moving eastward it reached northeastern Russia, and probably combined with low area ix. in the Ural region.

XI.—This was a subsidiary disturbance which appeared off the western coasts of Iceland and Scotland on the 8th, causing general rains over those countries. During the day it moved eastward with decreasing pressure, and on the 9th it was central over northern Denmark, where the pressure was 29.39 (746.5). From the 9th to the 13th this depression remained persistently over southern Scandinavia, the barometer falling to 29.24 (742.7) at the centre of disturbance. During its prevalence, general rains, accompanied by strong westerly winds to moderate gales, occurred in the British Isles and western Europe, and heavy thunder-storms were also reported in central Europe. On the 14th the region of least pressure was transferred to the Baltic; stormy weather still prevailed throughout Europe, the southern part of the continent being now under the influence of a depression which had appeared in the Mediterranean. On the 15th the lowest barometric readings were over the Gulf of Finland, but the pressure had become more evenly distributed over northern and central Europe, and this disturbance ceased to exist as an important weather element.

XII.—This depression formed in the Gulf of Genoa and moved through northern Italy on the 10th, to the Adriatic, where it was central on the 11th. It dissipated in southern Italy on the 12th.

XIII.—This disturbance appeared in the Gulf of Finland and the Baltic provinces of Russia on the 12th; on the 13th the centre was west of Moscow, where the barometer read 29.27 (743.4), wind se., 27 miles, raining. The depression continued its easterly movement, and on the 14th it was central near Ekaterinburg, barometer 29.38 (746.2). By the 15th it had passed into Siberia, and on the 16th it was central north of Akmolinski, where it apparently dissipated.

XIV.—The area of low pressures which occupied Europe on the 14th extended southward to the Gulf of Genoa, over which a secondary disturbance appears to have developed. It moved over the Italian peninsula and the Adriatic, causing showery weather and strong winds over those districts. On the 15th the disturbance was shown in Austro-Hungary, where the pressure ranged from 29.50 (749.3) to 29.55 (750.6). During the day the depression passed toward the Black sea and disappeared on the 16th.

XV.—On the 16th a great depression occupied central and northern Europe, from the British Isles eastward to Russia and thence southward to the Black sea, and moderate winds and rainy weather generally prevailed at stations in the northern and central parts of the continent. The region of least pressure was situated in Scandinavia, where the barometric readings ranged from 29.43 (747.5) to 29.5 (749.3). On the 17th the depression was shown in Finland, the pressure at the centre having decreased to 29.1 (739.1); small secondary depressions also existed in Scandinavia and in Germany, so that unsettled weather continued in nearly all districts. On the 18th the storm-centre was over the northern part of the Gulf of Bothnia, where the lowest reading was 29.04 (737.6); the pressure had increased over western Europe, and the wind increased somewhat in force, while the weather became more settled. On the 19th the pressure increased in northern Scandinavia, but this was again checked by the advance of an important depression, xvi., which had appeared near the British Isles on that day.

XVI.—This was a rather deep depression which appeared over the Irish sea on the morning of the 19th, the region of least pressure being indicated by the isobar for 29.4 (746.7.) General rains, heaviest in the southern districts, occurred over the British Isles and the eastern shores of the North sea, and strong winds to moderate gales prevailed in the southern quadrants of the depression. By the 20th the centre of disturbance had moved by a northeasterly course over the North sea to southern Scandinavia, accompanied by rainy weather, rising temperature, and strong westerly and southwesterly gales. On the 21st the barometric depression was shown in Sweden, the pressure near the centre being about 29.37 (746.0); strong westerly and southwesterly winds prevailed over the Baltic, and light rains occurred at most stations. On the 22d the isobar for 29.40 (746.7), which indicated the region of least pressure, had assumed an elongated form, and now stretched from Sweden, over the Gulf of Bothnia and Finland, eastward to the White sea, and strong westerly winds to moderate gales continued over the Baltic. On the 23d the disturbance remained near the White sea, but the pressure had increased somewhat, and on the following day the disturbance disappeared in the Arctic ocean.

XVII.—This was a shallow depression which appeared near the Saint George's Channel on the 22d, causing rain in the southern counties of England. On the 23d the area of the disturbance increased and the isobar for 29.8 (756.9) now enclosed the greater part of the British Isles, France, and the Bay of Biscay. Rain continued over the British Isles and at scattering stations on the continent, but the winds remained light or moderate. By the 24th the centre of disturbance had moved over the North sea to Denmark, a slight decrease of pressure having occurred during its passage; the winds remained moderate in force, but rainy weather still continued at most stations. On the 25th the disturbance was over the Gulf of Bothnia, whence it moved northeastward into Russia and was central near Archangel on the 26th, disappearing to the northeastward on the 27th.

XVIII.—This deep depression appeared in the west of Ireland on the morning of the 25th, and was enclosed by the isobar of 29.2 (741.7). Rainy weather was general in the British Isles, except in the north and northeast, and strong southwesterly winds prevailed over the English Channel. The disturbance moved northeastward with diminishing pressure and increased energy, and on the 26th it was central over the North sea, barometer at the centre reading 29.0 (736.6). Heavy rains, with rising temperature, accompanied the depression, and strong winds prevailed, except at stations in France, where they had moderated to fresh breezes. On the 27th the centre of depression was shown off the Norwegian coast; the pressure was gradually increasing and the weather improved over the British Isles and northwestern Europe, but in southern Europe rainy weather continued, owing to the presence of low area xix. in southern France. On the 28th low area xviii. disappeared in the Arctic region north of Scandinavia.

XIX.—This disturbance appeared in the western part of the Mediterranean and near to the Spanish coast on the 27th; it moved east-northeastward, and on the 28th was central over the northern part of the Adriatic. Heavy rain fell over southern and southeastern Europe, and high winds were reported at stations south of the centre. During the day the course changed to the northeastward and the disturbance passed through Austro-Hungary and disappeared in Russia on the 29th.

Under the influence of the four depressions just described, (numbers xvi., xvii., xviii., and xix.,) numerous severe thunder storms occurred in Europe, and very heavy rains prevailed, which seriously affected the harvesting operations and caused some damage to growing crops.

XX.—The disturbance was first noted in the Atlantic near N. 52° W. 32°, on the 27th. On that date the s. s. "Adriatic," in N. 50° 10′, W. 30° 38′, reported barometer 29.65 (753.1), wind sw., force 4, while vessels near W. 37° had strong northwest gales. Moving eastward during the day, the centre of disturbance reached W. 21° on the 28th, and on the following day it was off the Irish coast, the lowest reported pressure being 29.64, (752.8) on board the s. s. "Illinois," in N. 50° 52′, W. 14° 36′, wind w., force 3. Rain occurred at stations in Ireland and England, but no high winds were reported. On the 30th the centre was over the North sea, and on the 31st it was shown over Denmark, having been accompanied by heavy rain during its passage northeastward. This area was followed by a brisk increase of pressure and by cool northerly winds.

XXI.—This was a slight depression that appeared near Newfoundland on the 29th; it moved eastward, causing strong southerly gales near the thirtieth meridian on the 30th and, at the close of the month, it was apparently central as a storm of slight energy in about N. 49°, W. 28°.

XXII.—The presence of this disturbance was indicated by a rapid fall of the barometer at Godthaab, Greenland, on the 31st, on which date the barometer at that station read 29.25 (742.9), a fall of .3 inch during the preceding twenty-four hours.

Of the depressions that appeared in Asia, the following are charted:

XXIII.—This was an area of low pressures which occupied the sea of Okhotsk and northeastern Siberia from the 5th to the 8th, after which date the pressure increased until the 14th, when there was another brisk decrease; the barometer at Nikolaievsk, on the Amoor, falling to 29.37 (745.0) on that date.

XXIV.—This disturbance apparently moved, on the 18th, from northern China northeastward to Amoor where it was shown on the 19th. By the following day it had passed beyond the stations of observation.

XXV.—This depression was probably near Pekin on the 20th; it moved northeastward over northern Corea and disappeared in the Sea of Okhotsk on the 21st.

The following notes on the typhoons of August, 1881, are taken from Mr. Marc Dechevrens' "Typhoons of the China sea, 1881:

1. This typhoon is remarkable, both on account of its having moved from east to west in a latitude where the usual course of storms is in the opposite direction; and for the frightful havoc it carried into densely populated regions of China. The present typhoon is, so far as known, unique in regard to direction; it moved from east to west at a comparative high latitude, and what is rather unusual, instead of abating in violence on reaching the continent, it appears to have gathered

new strength and become more furious. The approach of this typhoon was first noticed at Satanomisaki light house, on the southernmost headland of Japan, and at Nagasaki, Japan, as early as the 9th of August. At Zi-Ka-Wei, China, the barometer did not begin to fall until noon of the 10th. At Satanomisaki, and at Nagasaki the wind had blown steadily from the westward since the beginning of August, but on the 9th it suddenly shifted to the northeast at the former station; at the latter station the change to northeast occurred on the afternoon of the 10th. The wind then shifted to east and lastly to southeast after the typhoon had started on its course toward China.

At Satanomisaki the barometer fell .3 inch between the 9th and 11th, on which date it reached the minimum, 29.66 (753.4); it fell rapidly for twenty hours before the minimum reading was observed, and afterwards it rose very slowly. At Nagasaki the barometric minimum, 29.7 (754.4), occurred on the afternoon of the 11th. The wind was not very strong, except at Satanomisaki, where, on the 11th, there was a strong east to east-southeast gale.

At Zi-Ka-Wei, China, during the 11th, the sky was almost clear, but in the evening, between 8 and 9 o'clock, the eastern horizon became overspread, first, with cirri, then with cumuli, moving from the northeast; on the 12th low cumuli were observed moving swiftly from nne. to sse., while cirro-strati rose up in the ese. The barometer began to fall rapidly, indicating the approach of the typhoon toward the coast of China; the barometric minimum, 29.58 (751.3), occurred at 4 a. m. of the 13th, the wind changing from ne. to e. and se.; the highest wind-velocity recorded was twenty-three miles an hour. There is no notice of any vessel having encountered the typhoon in the open sea, the detailed reports being mostly furnished by ships that were sailing along the coasts. To the northward of the centre, the s. s. "Pecheli," in about N. 28° 50′, E. 122° 40′, reported barometer 28.9 (734.0), at 6.30 p. m. of the 12th; wind ene., force 12 (Beaufort scale). The s. s. "Swatow", took shelter under the lee of Poo-too island (N. 29° 58′, E. 122° 22′), where she remained until the 13th; the barometer minimum was observed on board the steamer, between 4 and 6 p. m. of the 12th, wind between nne. and ne., force 8–9 (Beaufort scale).

The steamer "Hwai-Yuen," to the southward of the centre, and anchored in Bullock harbor (N. 28° 05′, E. 121° 5′), reported lowest barometer 29.05 (737.9), wind wsw., force 12; furious squalls and very heavy rain. At Wanchow (N. 28° 0′, E. 120° 40′), the barometric minimum occurred at midnight on the 12th.

Other vessel reports indicating the violence of the typhoon are as follows: The bark "Omega," apparently passed near the centre of the typhoon about noon of the 12th (N. 28° 27′, E. 122° 41′); she reported wind of hurricane force from n. to wnw.; in the afternoon the wind veered from w. to sw., blowing hardest from the west; tremendous seas filled the vessel fore and aft; masts were broken, boats carried away, and one man was lost. At 4 p. m. the force of the wind was such as to lay the vessel over, dipping her topsail yards in the sea. The s. s. "Europe," from Shanghai to Foochow, reported: 9.45 a. m., 12th (N. 29° 9′, E. 122° 15′), very heavy squalls with torrents of rain, barometer 29.6 (751.8); at 10 a. m., blowing a hard gale with high sea from se. and ne.; ship burying herself in the sea and flooding the decks fore and aft; at noon, barometer 29.22 (742.2), hurricane from n. sea making a complete breach over the vessel; at 3 p. m., a heavy se. sea boarded the ship, carrying away boats, wheel, deck saloon, rails, and everything on deck, also filling the engine-room with water and putting out the fires; ship helpless. At 4.30 p. m., the barometer read 28.8 (731.5); the gale raged till 5 p. m., when it began to lull, wind ne.; at 9 p. m. gale and sea going down, barometer 28.83 (732.3). Captain Wynn of the s. s. Nügita Maru," in N. 28° 35′, E. 122° 58′, reported lowest barometer 28.4 (721.3), at 5 p. m. on the 12th; sea fearfully high and sweeping decks continually from every side. Captain Wynn is of opinion that this typhoon exceeded in violence any he had ever seen or heard of.

On reaching the continent the typhoon moved from ene. to wsw.; at towns along the Yang-tsi-Kiang river the typhoon caused strong east winds; at Kiukiang (N. 29° 43′, E. 116° 8′), on the 14th, the gale lasted three hours, accompanied by heavy rain. But it was in the province of Kiang-Si that the typhoon proved most destructive; in that province all water courses were swollen by the diluvial rain that accompanied the typhoon; crops, houses, and people were swept away; in many places even the soil of the rice fields was washed away. The loss of life amounted to several hundreds, many persons being swept away by the floods and others crushed in the ruins of houses. In towns of 1000 houses not more than five or six remained standing; the survivors were left destitute and starving.

From the observations in Japan it would appear that, on the 10th and 11th, the typhoon was of small extent and of moderate violence, but as it approached the Chinese coast it increased considerably in both respects. At Zi-Ka-Wei, during the night of August 13–14th, the anemograph of the observatory registered a velocity of twenty-six miles, ese.; the barometer fell to 29.57 (751.1), whilst at the centre of the typhoon, one hundred and fifty miles south, it read 28.4 (721.3). At Chinkiang, northwest of Shanghai, the wind blew steadily from the northeast, force 6, on the afternoon of the 13th; the centre was two hundred and fifty miles to the south-southeastward, the typhoon then raging in Kiang-Si. In the China sea, the south-southwest monsoon continued to blow with the greatest regularity, but it increased in force as the typhoon moved southward, and a heavy swell from the same direction arose. At Manila, during the night of the 12th, there was a very high swell in Manila harbor, with scarcely a breath of wind at the time. The bark "Star of India" left Manila on the 10th for Hong Kong, and reported having had a succession of westerly squalls of hurricane force. The typhoon appears to have been brought to a stand by a barrier of relatively high pressures along the southern coast of China; its dispersion probably took place somewhere in the region comprised within latitude 24° and 27° north, and longitude 106° and 109° east.

II.—This typhoon appears to have formed to the east-southeastward of Luzon, its approach being first noted at Manila on the 19th. On the afternoon of that day the wind began to blow strongly, and the storm lasted until 3 o'clock the next morning. The storm-vortex was probably about forty miles to the north of Manila. According to the estimate of the director of the observatory, the wind reached a velocity of one hundred miles an hour, though an exact account cannot be given, owing to the destruction of the two anemometers at the observatory. Immense damage was done to small craft, and several large vessels were also stranded. On shore the destruction was very great, especially to houses of light construction. The light-house of Saint Nicholas was completely destroyed and eleven lives were lost. A destructive tornado (or secondary whirlwind accompanying the typhoon,) was reported to have occurred in the village of Polo, near Bulacan (twenty miles north of Manila); nearly all the houses of light construction were razed to the ground, but no loss of life was reported. This phenomenon was also reported to have crossed the parish of Pineda, where it was accompanied by a great noise, and destroyed one house.

During its passage across the China sea, the centre of the typhoon passed about two hundred and forty miles northeast of H. M. S. "Magpie," then on survey duty on the Macclesfield Bank, to the east of the Paracels; that vessel reported wsw., wind of force 3-5, with heavy sea-swell from ne., and nne., lowest barometer 29.58 (751.3), weather squally, with bright flashes of lightning. The schooner "Wagren" was near the centre of the typhoon on the 21st, in N. 19° 42′, E. 116° 32′; the lowest reported reading of the barometer was 29.12 (739.6), wind nne., force 10; the vessel lost spars and sails.

On the 23d the typhoon was off the Chinese coast near

Hong Kong; at that station the barometric minimum, 29.07 (738.4), occurred at 3:30 p. m., wind e., force 11. Owing to the precaution taken before the storm began, very little damage was done either ashore or afloat. At Macao, the barometric minimum 29.16 (740.7), occurred at 4 p. m., wind nne., force 8-9. At this station the barometer remained low until 10 p. m., the rise being much slower than at Hong Kong. As far as can be ascertained, the typhoon, after passing Macao, China, moved westward and passed to the north of Pakhoi, Gulf of Tonquin, on the evening of the 23d.

This typhoon travelled from Luzon, Philippine Islands, to Macao, China, a distance of six hundred and twenty miles, in seventy-two hours (August 20th–23d), or at an average velocity of about 8.5 miles an hour; on the 18th and 19th, previous to its entry into the China sea, its velocity probably did not exceed seven miles an hour. It is interesting to note that, south of the track, with southwesterly and westerly winds, there was a great display of electric phenomena; whilst, to the north of the track, no thunder nor lightning were reported. The same pecularity was noted in regard to the rainfall, although at Hong Kong there were very heavy rains on the 22d, 23d, and 24th.

III.—This typhoon formed in the Pacific ocean to the northeast of the Philippine islands, on the 23d or 24th; it moved to the westward at a considerable distance from those islands, and on nearing the coast of China the course changed to the north and northeast; its trajectory thus presenting the form of a parabolic curve. This typhoon caused immense damage to property at sea and on shore, and is specially notable from the fact that, when near the island of Formosa, the principal typhoon split into two distinct typhoons, each pursuing a nearly parallel track. The easternmost segment appears to have moved with greater rapidity than that which passed through the Channel of Formosa; the former has been traced northward to the fortieth parallel, while the latter apparently dissipated to the north of Shanghai between N. 30° and 32°.

The first indications of the typhoon were noted by the ship "Bolton Abbey," on August 22d, when in N. 17° 35′, E. 127° 56′; at noon the barometer read 29.57 (751.1), with fresh nw. breeze; at 6 p. m. the weather became threatening, with heavy squalls, accompanied by thunder and lightning. By midnight of the 22–23d the barometer read 29.0 (736.6), heavy nw. gale and furious sea; at 1.30 a. m. blowing a hurricane, barometer 28.8 (731.5), ship laboring heavily, decks swept and bulwarks carried away; at 2.30 a. m., barometer 28.6 (726.4), wind wnw., blowing with unabated fury; at 4 a. m. the barometer read 28.45 (722.6) (the minimum), wind w., blowing furiously, the gale sounded as if voices were in the air all around the vessel. By this time the ship was almost a complete wreck, having lost all masts, boats, &c., and in a waterlogged condition. At daylight of the 23d the barometer began to rise slowly, but the wind continued to blow with hurricane force throughout the day. At noon of the 24th, barometer 29.5 (749.3), weather improving and gale moderating. August 25th, wind sw., moderate, weather cloudy.

The next report indicating the vicinity of the centre of disturbance is that of the British ship "Hindostan," about eighty miles north of Luzon. At noon of the 25th, in N. 20° 16′, E. 122° 17′, the barometer read 29.12 (739.6), wind w. by n., force 10–12; tremendous squalls with very high and confused sea; ship dismasted. The period from the 26th to 28th is worthy of special note; on the first mentioned date the typhoon, which had handled the "Bolton Abbey" and the "Hindostan" so roughly, apparently divided into two parts. This occurrence can be ascribed to no other cause than the action of the great mountain chain, ranging from 9,000 to 12,000 feet above sea-level, which runs through the island of Formosa from south to north; the effect was as that of a wedge driven into the body of the typhoon, and dividing it into two segments, which, moving aside to the right and left, formed two separate and distinct typhoons. The westernmost or "Pescadores" typhoon was encountered by the steamer "Abbay," which sailed from Tai-wan-foo Roads on the 25th for Pescadores; the gale began with heavy squalls from n. and nw., with falling barometer; at 5 p. m. of the 25th the ship was hove to, wind nnw., force 9, barometer 29.39 (746.5). By 4 a. m. of the 26th (near N. 21° 38′, E. 119° 44′), the barometer had fallen to 29.16 (740.7), the minimum reading, wind w. to wsw., force 10–11, terrific squalls; at 6 a. m. the barometer began to rise, wind ssw., but still blowing with hurricane force. By noon of the 27th the wind had settled into a hard gale from sw., barometer 29.44 (747.8). At about noon of the 26th the storm-centre passed north-northwestward, near Tai-wan-foo, at which station the lowest barometric reading was 28.83 (732.3), wind nw., shifting to w. and ssw. after the passage of the centre. At about 3 p. m. the centre passed between the coast of Formosa and the Pescadores Islands; the Chinese gunboat "Fei-Yuen," lying in Makung harbor (Pescadores), reported barometer 28.89 (733.8), wind nnw.; at about 4 p. m. the wind, which had previously blown with hurricane force, now lulled down to about force 5 for half an hour; Chinese fishermen also reported that a calm was experienced for a short interval near N. 23°, E. 120°.

The storm-centre appears to have remained over Formosa about twelve hours, during which time it travelled about seventy-two miles, or with a velocity of six miles an hour; the central region appears to have been about twenty to twenty-five miles in diameter, near Pescadores. Moving nearly due northward the centre was met at midnight of the 26–27th, by the s. s. "Glencoe," in N. 24° 50′, E. 119° 25′, lowest barometer 29.1 (739.1), wind moderating from ne., hurricane of force 12, to w. force 1–2, with heavy rain, wind unsteady. The easternmost, or "Chusan" typhoon had moved along the eastern coast of Formosa, and on the 25th its centre was to the north of Tamsui, northern Formosa. At that station the lowest barometer at 7 p. m. of the 26th was 28.9 (734.0), wind ese. to se., force 9–10, afterwards moderating to se. and sw., force 2–3, with continuous rain. Observations taken at light-houses on the coast of Formosa indicate that the two centres were near to each other on the 27th, but that the easternmost typhoon was slightly in advance of the "Pescadores" typhoon. On the afternoon of the 27th the direction of the "Pescadores" typhoon appears to have changed to the northeastward, thus crossing the track of the "Chusan" typhoon, which was moving north-northwestward. The centres passed about fifty miles east of Foochow, at which station the wind was the heaviest known for a number of years, and great destruction occurred to life and property. The eastern, or "Chusan" typhoon passed into the continent near Wanchow, on the 28th; moving through the province of Che-Kiang, it caused great damage to life and property at Ning-po, and in the islands of the Chusan archipelago, and passed into the Yellow sea on the 29th, its course changing to the northeastward.

On the 28th the s. s. "Takasaga Maru," in about N. 27° 52′, E. 123° 6′, passed within a few miles of the centre of the westernmost typhoon, which was now moving to the northeastward; the lowest barometric reading was 29.12 (739.6), at 7 a. m. of the 28th, wind ese., blowing with typhoon force, with very high sea and heavy rain squalls; at 10 a. m. the wind was sw., squally, and at 2 p. m. it suddenly shifted to nw., blowing strongly but decreasing gradually to a moderate breeze.

On the 29th the "Pescadores," or western typhoon passed to the eastward of Shanghai; the force of the wind at Zi-Ka-Wei observatory did not exceed thirty-nine miles an hour, but owing to its long duration it did as much damage as a stronger wind might have done in a shorter time. The village of Shetoe-sha, in the Kow-kan district near Shanghai, was submerged by the floods and totally destroyed, and many of the inhabitants were drowned. The village contained about three hundred families, only half of which managed to save themselves on hastily constructed rafts. At Woosing seventy junks were carried some distance inland from the river, and many were dismasted and broken. On the 30th this typhoon appears to have died out in the Yellow sea, near the thirty-third parallel,

but the eastern, or "Chusan," storm appears to have continued its course northward. On the 29th it was central in about N. 33° E. 124°, and observations at Cape Shan-Tung and New-chang indicate that the typhoon passed up the coast of Corea and finally disappeared.

The average velocity of translation of this typhoon, from the 22d to 25th, before dividing, was about six miles an hour; after dividing, the velocity of the "Pescadores" typhoon which travelled 1,344 miles, was about 7.7 miles, while that of the "Chusan" typhoon, which travelled 1,825 miles, was 8.4 miles an hour.

NOTE.—A very full and interesting account of this remarkable typhoon is given by Mr. Dechevrens in the work above referred to.

GENERAL REMARKS.

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

INTERNATIONAL CHARTS ACCOMPANYING DAILY BULLETIN AND MONTHLY SUMMARY.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

FRENCH SERIES (furnished by co-operation of the Central Meteorological Office of France, Professor E. Mascart, Director, and respective observers).—The originals give the barometer in millimetres reduced to sea-level and the temperature in Centigrade. The movement of the air is indicated by force on a scale of 0 to 6, except in metres per second for Mont Louis and Perpignan. In general the rainfall is measured at 9 a. m., local time. The direction of upper and lower clouds is given, but no distinction is made as to kind. The degree of cloudiness is given on a scale of 0 to 4 at Clermont-Ferrand and Puy de Dome, while at other stations the scale of 0 to 10 is employed, or general weather terms, from which the amount of cloudiness is inferred. The weather is given in general terms, except occasionally by the Vienna symbols at Mont Louis and Perpignan. At Guéret the observations are taken at 12 m., instead of 12.16 p. m., and at Besançon at midday instead of 0.32 p. m.

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

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

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

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

JAPANESE SERIES (furnished by co-operation of I. Arai, Director of the Imperial Meteorological Observatory at Tokei).—The rainfall is measured at 9.30 a. m., local time, and the conversions are all published as given in the originals. Distinction is generally made between upper and lower clouds, and the amount is given on a scale of 0 to 10. The weather is given in general terms. During the months of July, August, and September, 1882, the rainfall at Nagasaki was measured at 9.36 p. m., and at Niigati during July and August, at 10.13 p. m., local time.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ERRATA.

DAILY BULLETIN, August 6th, 1882, page 5, United States, Rochester, reduced barometer 765.3 mm., should read 764.4 mm.

9th, page 2, French, Besançon, actual barometer 29.02? inches, should read 29.08? inches; page 7, Hamburg American Packet Company, s. s. Cimbria, latitude N. 47° 53′, should read N. 49° 53′.

11th, page 8, Miscellaneous, Bk. Warden Law, latitude S., should read N.

12th, page 1, Canadian Sub-series, Mount Forest, actual barometer, 84.54 inches, should read 28.54 inches.

13th, page 4, United States, Memphis, actual barometer 755.6 mm., should read 755.1 mm.

15th, page 3, Japanese, Nobiru, rainfall 2.231 inches, should read 2.131 inches.

16th, page 7, National Line, s. s. Denmark, longitude W. 148° —′, should read W. 1° 48′.

17th, page 4, United States, Charlotte, temperature 24°2 c., should read 23°.2 c.

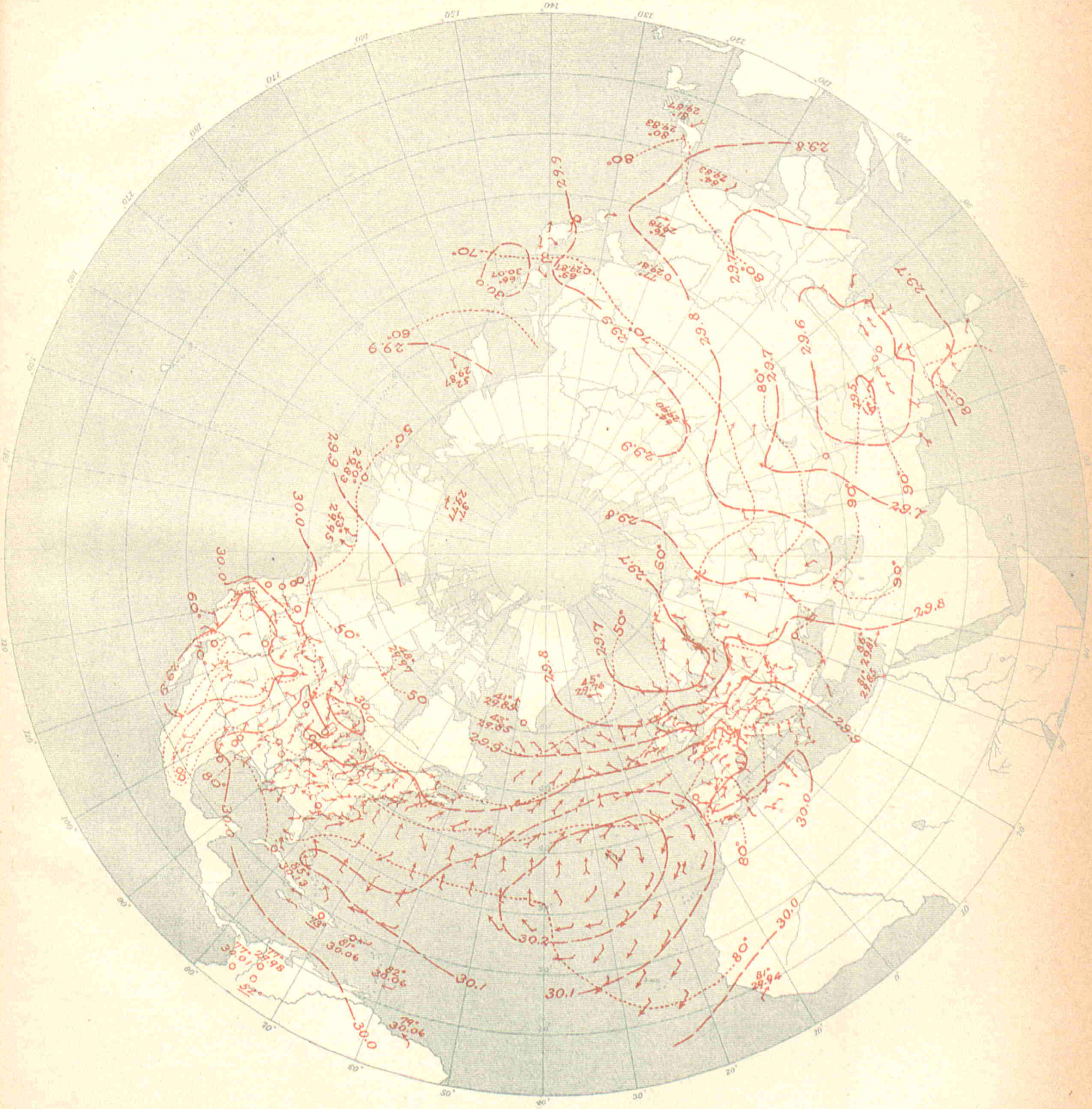
26th, page 6, Anchor Line, s. s. Utopia, latitude S., should read N.

International Meteorology. Summary for May, 1882, page 8, third par., sixth line: slightly lower, should read slightly higher.

PUBLISHED BY ORDER OF THE SECRETARY OF WAR.

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

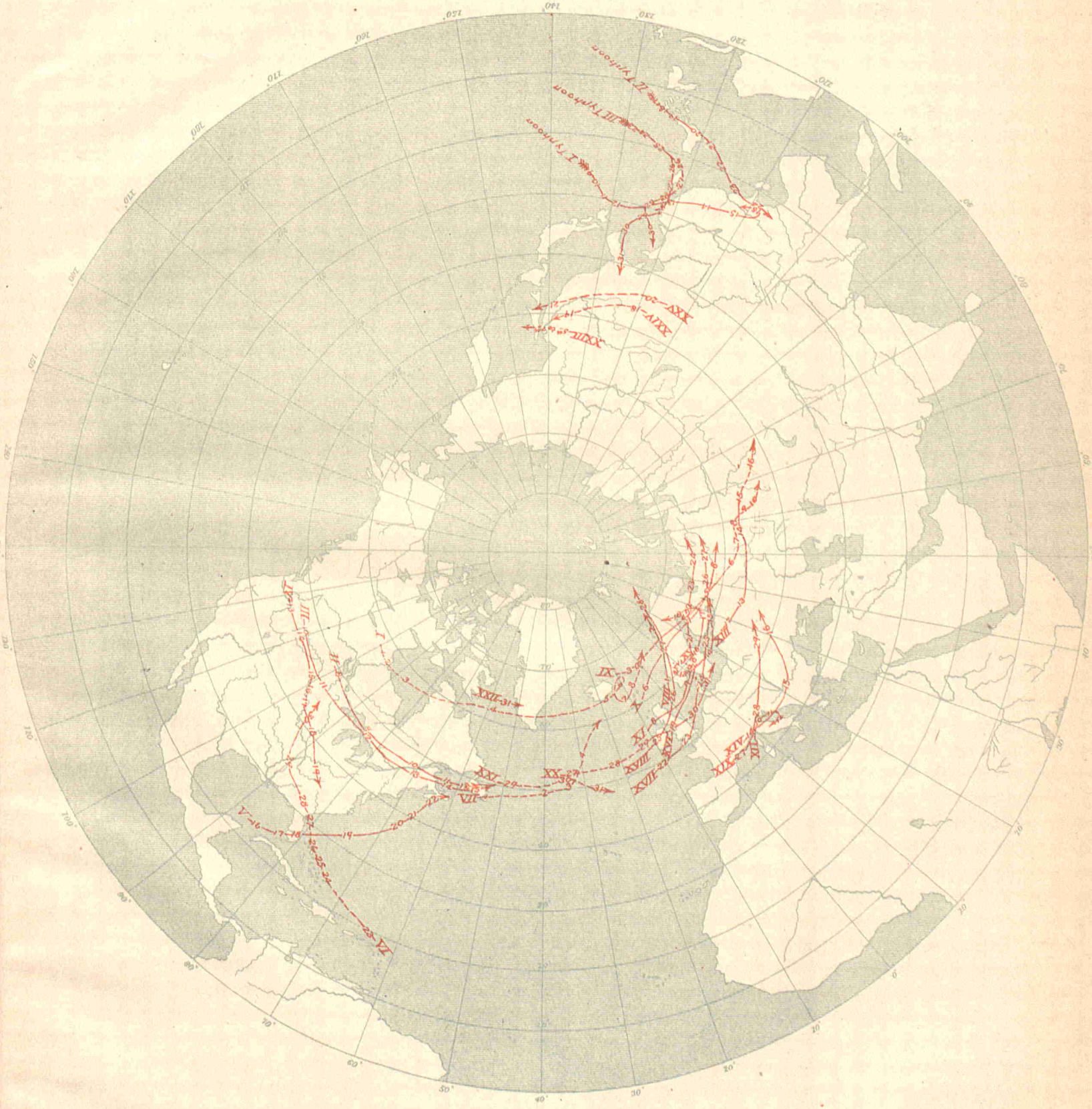
International Chart II. August, 1882. Isobars, Isotherms, and Winds.



UNITED STATES OF AMERICA.

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

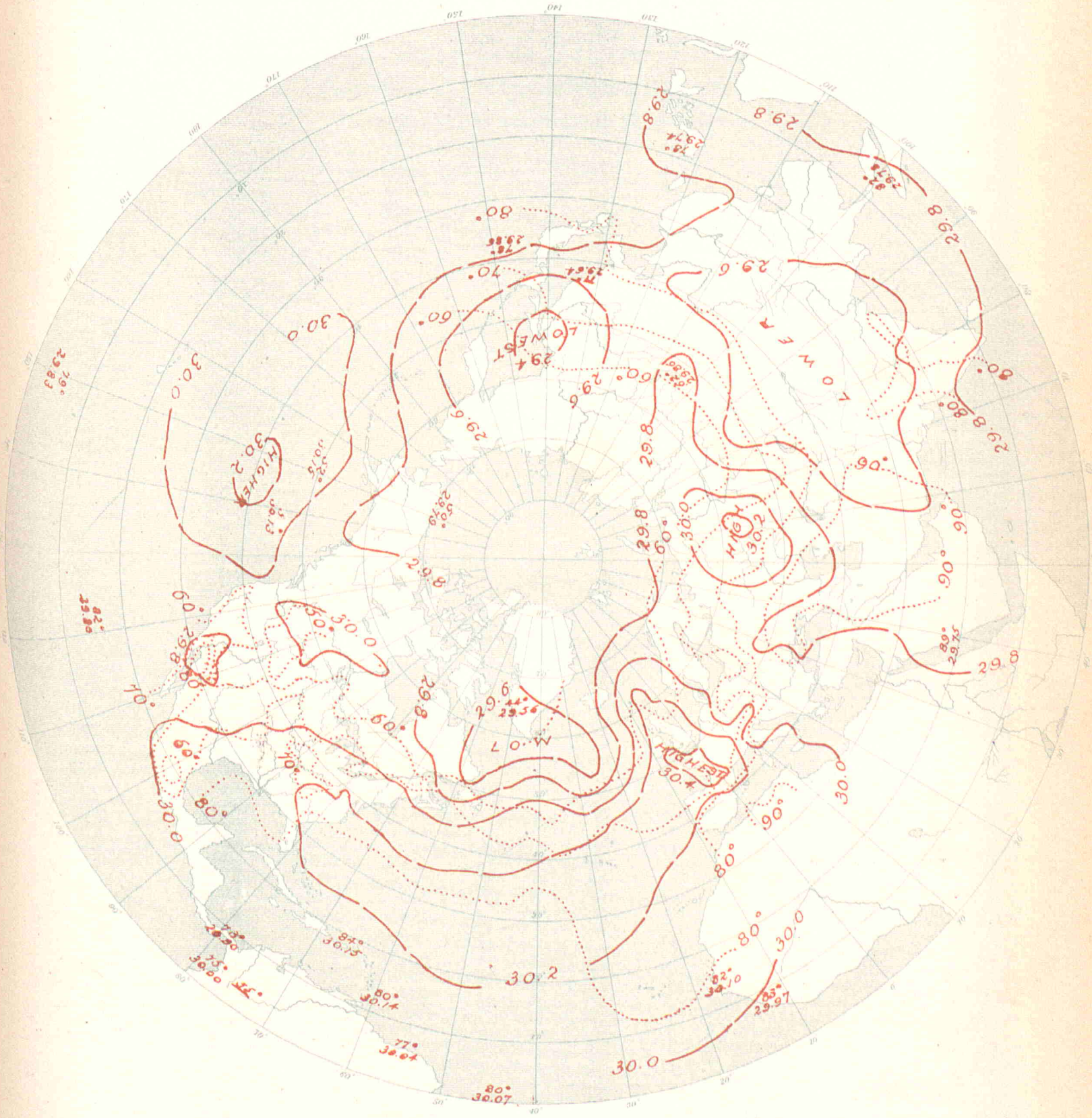
International Chart III. August, 1881. Storm-Tracks.



UNITED STATES OF AMERICA.

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

International Chart I. July 26, 1882. Isobars and Isotherms.



UNITED STATES OF AMERICA.

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